

Site Assessment Work Plan

Golden Graham to Shocker SWD Line Release

API: 30-015-45324

Responsible Party	EOG Resources (530910)
Responsible Party Contact	Hadlie Stout - Hadlie_Stout@eogresources.com
Document Submitter	Miguel Flores – Miguel.Flores@tetratech.com
API or Facility ID Number	30-015-45324
NMSLO Lease Number and Lessee	VB06930001 – EOG Resources Inc
ROE for Remediation	Not Applicable
NMOCD Incident Number	nAB1910935399
PLSS	G-01-26S-28E
County	Eddy
Latitude and Longitude	32.074810°, -104.040210°
Reason for Project	Spill Remediation and Reclamation

Tetra Tech, Inc. has prepared this Remediation Work Plan in accordance with the New Mexico State Land Office Environmental Compliance Office "Report Format for Submittals" document dated December 31, 2025. This work plan presents the required information and proposed remediation activities in strict accordance with the prescribed format.

Sincerely,
Tetra Tech,



Miguel Flores,
Project Manager
Tetra Tech, Inc.



Charles H. Terhune IV, P.G.
Program Manager
Tetra Tech, Inc.



#212C-MD-02722
June 08, 2026

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1.0 INTRODUCTION

This Remediation Work Plan addresses areas associated with the Golden Graham to Shocker (API 30-015-45324) spill release (Site). This spill extent is located approximately 10.5 miles south of Malaga, New Mexico. The Site is located in Unit Letter G, Section 01, Township 26 South, and Range 28 East, Eddy County, New Mexico. The coordinates of the spill extent are approximately 32.074810°, -104.040210°.

The Site and surrounding area are on State Trust Land managed by the New Mexico State Land Office (NMSLO). A review of the NMSLO Land Status Map was completed, and the Site is located within an active oil and gas lease ID VB06930001, listed under EOG Resources Inc.

At this Site, remediation will be conducted in accordance with 19.15.29.12 and 19.15.29.13 NMAC. The purpose of 19.15.29.12 and 19.15.29.13 NMAC is to establish minimum procedures to follow in remediating criteria resulting from a major or minor release containing liquids of the impacted surface area of a release occurring. 19.15.29.12 and 19.15.29.13 NMAC states that "The responsible party shall restore the impacted surface area of a release occurring on a developed well pad, central tank battery, drilling site, compressor site or other exploration, development, production or storage sites to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC." The Site location is depicted in **Figure 1** and **Figure 2**.

2.0 SITE HISTORY

The Golden Graham 1 State Com #712H [322721] was registered on October 16, 2018, by EOG Resources Inc (79799) and is an active central tank battery production facility.

2.1 NMOC RECORDS

Based on the OCD Permitting online records search conducted by Tetra Tech, the following one (1) Incident ID is recorded in connection to the Golden Graham to Shocker:

- nAB1910935399: On 4/01/2019, an equipment failure of a separator at the Site resulted in the release of 615 bbs of produced water onto ROW and pastures. EOG submitted the Initial C-141 Report on 4/01/2019. This incident remains open and is the subject of this Assessment Work Plan.

A copy of the associated OCD Permitting records and incident records are included in **Appendix A**.

2.2 HISTORICAL AERIAL IMAGERY REVIEW

A review of publicly available historical aerial imagery was conducted to assess the Site's history and features and to identify indications of environmental incidents or impacts.

2009: Aerial view depicts the Pecos River drainage corridor flowing through the Site area, this is consistent through image years of 2009 through 2026. Observable surface features include oil and gas infrastructure and railroad tracks west of the channel. Vegetation cover is observed on the upland area adjacent to the floodplain markings with soil disturbance present along the west channel parallel to the railroad tracks. Image is distorted and pixels unclear along the Pecos River, making it difficult to segregate observations.

2011: Aerial view depicts the Pecos River drainage corridor flowing through the Site area. Soil disturbance and oil and gas infrastructure is observed across the site with right-of-way first appearing. Vegetation over in the upland region east of channel, and floodplain seems darker in coloration with a presume more rich sedimentary deposits. Image quality is distorted and uneasy to visually observe any particular surface features.

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2013 Aerial view depicts the Pecos River drainage corridor flowing through the Site area. Surface observations on erosional features in the runoff pathway, with drainage occurring more extensively within them. Soil discoloration in and white staining on right-of way is present on the eastern channel, presumably from natural soil and imported material salt deposition occurring after precipitation. This soil discoloration is consistent with the 2014 aerial imagery.

2014: Aerial view depicts the Pecos River drainage corridor flowing through the Site area. Surface erosion features are observed in the channel floodplains with a north to south trajectory, following water erosion paths. White staining in draining pathways adjacent to right-of-way on eastern channel is observable, with possible erosional events exposing more caliche or salinity deposits after precipitation events.

2019: Aerial view depicts the Pecos River drainage corridor flowing through. A more defined runoff and erosional features are observed among the drainage points upland of the channel. Denser vegetation is present along the floodplains and east and west of the channel, with likely more available soil moisture from drainage pathways, Pecos river and monsoon precipitation. Within spill extent area a soil disturbance is observed east and west of the channel where an apparent trench was installed, this aligns with the incident associated with this work plan.

2023: Aerial view depict the Pecos River drainage corridor flowing through. More utility lines have been installed with transfer power lines poles crossing the channel, right-of-way buried pipelines and an apparent river crossing trail wireline installed. vegetation and erosion features are steady with no apparent significant changes on image.

2024: Aerial view depicts the Pecos River drainage corridor flowing through. Surface features observed near at floodplains and margin show dense vegetation growth likely from soil moisture conditions. Within spill extent area a soil disturbance is observed east or the channel upland of the floodplain where a trench was installed, this aligns with the incident associated with this work plan

2025: Aerial view depicts the Pecos River drainage corridor flowing through the Site area. Existing oil and gas infrastructure is present within the localized spill extent and adjacent areas, including access routes and disturbed surface features. An apparent trench or excavation area is also observed adjacent to the drainage corridor, with visible water accumulation within the excavated feature..

2026: Aerial imagery depicts conditions substantially identical to the 2024 imagery, with no significant observable changes in surface features, vegetation cover, or disturbance patterns within the reviewed are.

2.3 CURRENT SITE CONDITIONS

Tetra Tech personnel conducted a visual Site inspection at the spill footprint and surrounding areas on July 22, 2019, to evaluate current conditions at the Site. The area had been identified from previous desktop review and correspondence with EOG (see **Figure 3**).

The Golden Graham to Shocker SWD Line release consist of two separate impacted areas and release sections where sections of polyline diverge. The eastern and western spill extents occurred within pastureland and right-of-way on opposite sides of the river channel and terminated adjacent to, but not within, the watercourse. The river channel is located between the two impacted areas. Initial assessment activities of the impacted area did not identify evidence of impacts within river channel or watercourse. It is composed of the two polygon-shaped areas that together are approximately 79,028 square feet, although it is difficult to discern the spill extent due to the upland natural landscape and topographic setting. The Site contains multiple surface polylines, utility infrastructure, right-of-way, electrical infrastructure, and a river crossing wireline.

At the time of the Site inspection, the spill had been contained, recovery of free-standing liquids had been attempted, and pasture and undisturbed areas discoloration within the approximate spill extent was observed. Minor and major discoloration was observed around the polylines, right-of-way, and utilities.

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During the July 22, 2019, Site visit, Tetra Tech personnel observed that the spill extent was located entirely within the undisturbed areas, pasture and within the right-of ways. During the July 24, 2024, Site visit, Tetra Tech observed that site conditions within the documented spill extent area remained relatively unchanged. Vegetation cover appeared to be progressively re-establishing naturally across the spill extent and adjacent areas. No new soil discoloration, staining, or other visual indicators of additional release impacts were observed during the inspection.

Appendix B provides photographic documentation of the Site.

3.0 CULTURAL RESOURCES REVIEW

To meet the requirements for performing ground disturbance activities on State Trust Lands, compliance with the cultural properties protection rule and legal authorization to work on State Trust Lands must be addressed. The New Mexico Administrative Code (NMAC) 19.2.24.8 states, "Any persons engaged in activities on state trust lands are subject to the requirements of the Cultural Properties Act, the Cultural Properties Protection Act, and 19.2.24.13 NMAC. Persons shall not disturb, dislodge, damage, destroy, or remove any cultural properties on state trust lands. Any project on state trust lands that has the potential to directly or indirectly damage cultural properties is additionally subject to the requirements of Subsections B, C, D, and E of 19.2.24.8 NMAC."

The proposed remediation activities will take place in previously disturbed right-of-way, wetland and rangeland vegetation undisturbed areas. EOG will contract a third-party archaeological subcontractor to conduct a review prior to initiating the work.

4.0 BIOLOGICAL COMPLIANCE

Per NMSLO guidelines, a desktop review was conducted of the pasture and right-of-way for biologically sensitive areas. Tetra Tech reviewed the U.S. Fish & Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) tool, the New Mexico Department of Game and Fish NMDGF Environmental Review Tool (ERT).

The IPaC database lists no critical habitats at the Site Location. The ERT lists the Site with a CHAT score of 1.

The project site is not mapped in the lesser prairie chicken (LEPC) isolated population habitat area. However, if observed by contractor or tetra tech field personnel, the following best management practices will be implemented within the areas proposed for remediation:

- Once NMSLO has approved any plans for remediation or reclamation, best management practices will be implemented to align with BLM Timing and Noise Restriction Zone, which is between 3:00 AM and 9:00 AM, during dates ranging from March 1 to June 15. If the BLM Timing and Noise Restriction Zone are adjusted in any way, EOG will comply with the most current guidelines at the time of remediation and reclamation activities
- If an LEPC is observed during construction, the following protocols will be followed:
 - The Field Supervisor/Crew Leader will be contacted and provided with the following information:
 - Observer, date, and time of observation;
 - Location of observation along the Project route (GPS coordinates); and
 - Number of individual birds observed.
 - The Field Supervisor/Crew Leader will contact the Tetra Tech Project Manager and/or a Tetra Tech Biologist/Prairie-chicken specialist;
 - The Project Manager will contact the appropriate federal and non-governmental organization (NGO) agencies:
 - United States Fish and Wildlife Services (USFWS); and
 - Center for Excellence in Hazardous Materials Management (CEHMM).

If remediation activities are warranted and extend into areas previously undisturbed, a biological survey will be conducted by a qualified biologist to evaluate potential impacts on threatened, endangered, and sensitive soils before such activities are undertaken. The biological assessment documentation is included in **Appendix C**.

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5.0 SITE CHARACTERIZATION

Tetra Tech performed a Site characterization that identified no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, incorporated municipal boundaries, or subsurface mines, within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The site is in a Zone A flood hazard zone. The Site is in an area of medium karst potential. The site characterization data are included in **Appendix D**.

5.1 GROUNDWATER

According to the New Mexico Office of the State Engineers (NMOSE) reporting system and the United States Geological Survey (USGS), the following two (2) known water wells are recorded within a 2-mile radius of the Site with available water level data:

- C 03508 located 1.60 miles Southeast of the Site with a depth to groundwater of 75 feet bgs dated August 24, 201, and;
- 320518104031401 located 1.23 miles Northwest of the Site with a depth to groundwater of 54.96 feet bgs dated January 01, 2013.

None of the above wells are within ½ mile of the Site or have a recorded depth to groundwater data.

5.2 WETLANDS

Readily available data were reviewed to determine the status of the Site regarding wetland designation or the existence of potential wetlands. The U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) Wetlands Interactive Mapper and OpenEnviroMap were queried to determine whether any potential wetlands are mapped in the vicinity of the reclamation location. Based on the wetland review, the Site is identified as having three wetland features identified within 300 feet of the reclamation area.

- Wetland feature, Riverine, classified as R3UBH, located at site in between the impacted area;
- Wetland feature, Freshwater Emergent Wetland, classified as PEM1A, habitat located at site in between the impacted area, and;
- Wetland feature, Riverine, classified as PEM1A, located 160 feet northwest of Site.

5.3 SITE REMEDIATION CRITERIA

In accordance with the NMOCD guidance Procedures for Implementation of the Spill Rule (19.15.29 NMAC) (September 6, 2019), the following remediation requirements for surface soils (0-4 feet below surface) and subsurface soils (deeper than 4 feet below surface) at this Site are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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5.3.1 Chloride Background Concentrations

Published studies and field investigations conducted by United States Geological Survey (USGS), based on discrete samples collected during site monitoring activities and subsequent laboratory analysis, indicate that portions of the Pecos River Basin exhibit natural occurring salinity contributions, resulting from hydrogeological and geochemical conditions documented by the USGS.

The river reach extending from Malaga to Pierce canyon crossing exhibit natural salinity that can be traced to saline water discharge from the brine aquifer near Malaga Bend originating from the contact of the Rustle and Salado Formations. The Pecos River Commission and New Mexico Environmental Department (NMED) indicate concentrations of average Total Dissolved Solids (TDS) concentrations in ground water of 4,500 mg/L from 2010 through 2013. Groundwater intrusion occurs within the brine aquifer and has been estimated to migrate upward at a rate approximately 0.5 ft³/s (Houston *et al.*, 2019).

Additionally, U.S.G.S. gauging stations 08407500 (located at Site), 08406500 (approximately 16 miles upstream), and 08407000 (Approximately 20 miles upstream), with available data ranging from 1990 through 2024 indicate elevated background dissolved solids and chloride concentrations upstream and cross-stream the Site area, Total Dissolved Solids (TDS) average concentrations at 3,381 mg/L and chloride average concentrations at 3,162 mg/L.

Table 1: United States Geological Survey Surface Monitoring Locations

Location Type	Location ID	Latitude	Longitude
Surface Water	USGS-08407500	32.075192°	-104.039436°
Surface Water	USGS-08406500	32.188531°	-103.979386°
Surface Water	USGS-08407000	32.207542°	-104.023875°

Based on the surface water laboratory analytics of the monitoring locations, the primary geological features naturally occurring in the Site and adjacent to it, the background concentrations levels are naturally elevated and potentially be existing at the Site, prior to spill release. Naturally occurring salinity is an integrated part of the Site and anticipated in the area, from Pecos River and Geological features, where brine water from aquifer and formations, laterally and vertically migrate salinity into area in a progressive manner. Further background chloride concentrations demonstrations at the Site are proposed below.

5.4 SOIL PROFILE

The U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey Mapper was used to identify the native soil and determine the soil profile for the site. Soils at the Site comprise Dev-Pima complex, dry, 0 to 3 percent slopes (40%), Ector Stony loams complex, 0-9 percent slopes (40%), and Pajarito-Dune land complex, 0-3 percent slopes (20%). The typical soil profile for the Dev-Pima complex, Ector Stony loam complex, and Pajarito-Dune land complex is as follows:

Dev complex:

- H1 – 0 to 15 inches: very gravelly loam
- H2 – 15 to 60 inches: very gravelly loam

Pima complex:

- H1 – 0 to 3 inches: silt loam
- H2 – 3 to 60 inches: silty clay loam

Ector Stony loam complex:

- H1 – 0 to 6 inches: very cobbly loam
- H2 – 6 to 60 inches: bedrock

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Pajarito complex:

- H1 – 0 to 9 inches: fine sandy loam
- H2 – 9 to 36 inches: fine sandy loam
- H3 – 36 to 72 inches: fine sandy loam

Dune Land complex:

- H1 – 0 to 6 inches: sandy loam
- H2 – 6 to 60 inches: sandy loam

Sensitive soil profiles were identified in the soil review.

6.0 SITE ASSESSMENT

As discussed above, a review of available aerial imagery was conducted to assess the site conditions, however, none of the aerial images were taken that show the release at the Golden Graham To Shocker SWD release. In 2019 aerial imagery, two areas of concern were identified near the spill extent. This area is shown in **Figure 4**.

6.1 SITE ASSESSMENT SAMPLING

Prior to commencing the proposed remediation and reclamation activities, an initial soil impact delineation was conducted by collecting soil samples at 0-4.5 feet below ground surface (bgs) and field-screening for salinity using an ExTech-ExStik II EC400. Collected samples were submitted for laboratory analysis of chloride via EPA Method SM4500Cl-B (or Method 300.0), BTEX via EPA Method 8021B, and TPH via EPA Method 8015M.

Tetra Tech conducted site Assessment activities during July 2019, September 2019, May 2022, and September 2024. A total of nineteen (19) auger holes and seven (7) background samples, three (3) horizontal and three (3) water samples from the Pecos river upstream, cross stream and downstream, to delineate the spill extent vertically. Samples AH-1 through AH-19 were advanced and installed to depths ranging from 0-1 to 4.5 feet below ground surface. Horizontal samples were advanced and installed to depths of 0-1 feet belowground surface Background samples advance and installed to depths of 0 – 4.0 feet below ground surface to horizontally delineate the impacted area. The impacted area and sample location are shown in **Figure 3**.

Assessment samples were submitted to Cardinal Laboratory in Hobbs, New Mexico, for analysis using the TPH method 8015 modified, the BETX method 8021B, and the Chloride EPA Method 4500. The analytical results are summarized in **Table 1**, and the analytical laboratory reports are included in **Appendix E**.

Assessment laboratory analytical results indicate that chloride concentrations exceed RRALs, with concentrations ranging from 688 milligrams per kilogram to 14,700 milligrams per kilogram mg/kg. Additionally, reports indicate TPH concentrations exceeding RRALs, with concentrations of 175 milligrams per kilogram. No samples reports indicate BTEX concentration exceeding RRALs.

6.2 SITE PROPOSED BACKGROUND SAMPLING

A background sampling event is proposed prior to submitting a remediation and reclamation work plan. EOG proposes to conduct initial soil and water sampling to determine the natural occurring background chloride, salinity, and total dissolve solid concentrations related to the water-quality of the Pecos River surface flow, and the salinity ion concentration of the soil natural sediments in floodplains, upgrade and cross gradient from the spill extent area. Collected samples will be submitted for laboratory analysis of Total Dissolve Solids via EPA Methods 160.1 and chloride via EPA Method 4500-Cl B (or Methods 300.0).

The proposed sampling will include series of soil samples and water samples to capture the most recent background sampling and contaminant concentrations with a 100 foot radius of the spill extent area in areas previously not

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developed for oil and gas production. A total of six (6) background samples advanced with a steel hand auger will be installed, and samples will be collected from intervals of surface, 1, 2, 3, 4 feet below ground surface. a total of two (2) surface water flow samples will be collected. Soil samples will be field screen using ExTech 400C.

Two proposed drilling locations for temporary groundwater piezometers to facilitate ground water depth determination and shallow water sampling will be advanced and installed on the east and west of the channel. The borings will be advance to a total depth of 55' feet below ground surface or until groundwater is encountered.

Table 2: Proposed Groundwater Sampling Wells

Sample ID	Latitude	Longitude
DB-1	32.075856°	-104.039038°
DB-2	32.074945°	-104.039428°

Assessment confirmation sampling protocol will follow 19.15.29 NMAC. Confirmation soil sample(s) will be analyzed for BTEX, TPH, and chloride. The proposed sample locations are shown in **Figure 5**.

7.0 SCHEDULE

Assuming the Site Assessment Work Plan is approved as written, remediation activities will be conducted 60-90 days after approval.

Upon completion of the work, a Remediation and Reclamation Work Plan will be prepared, proposing any relevant chloride background concentrations and including a detailed scope of work to conduct remediation and site reclamation.

The assembled Remediation and Reclamation Work Plan will be provided to ECO within 90 days of completion of activities. If the Site Assessment Work Plan is approved by ECO in June 2026, Site Assessment will be completed by the end of June 2026, and the subsequent work plan will be submitted by the end of August 2026

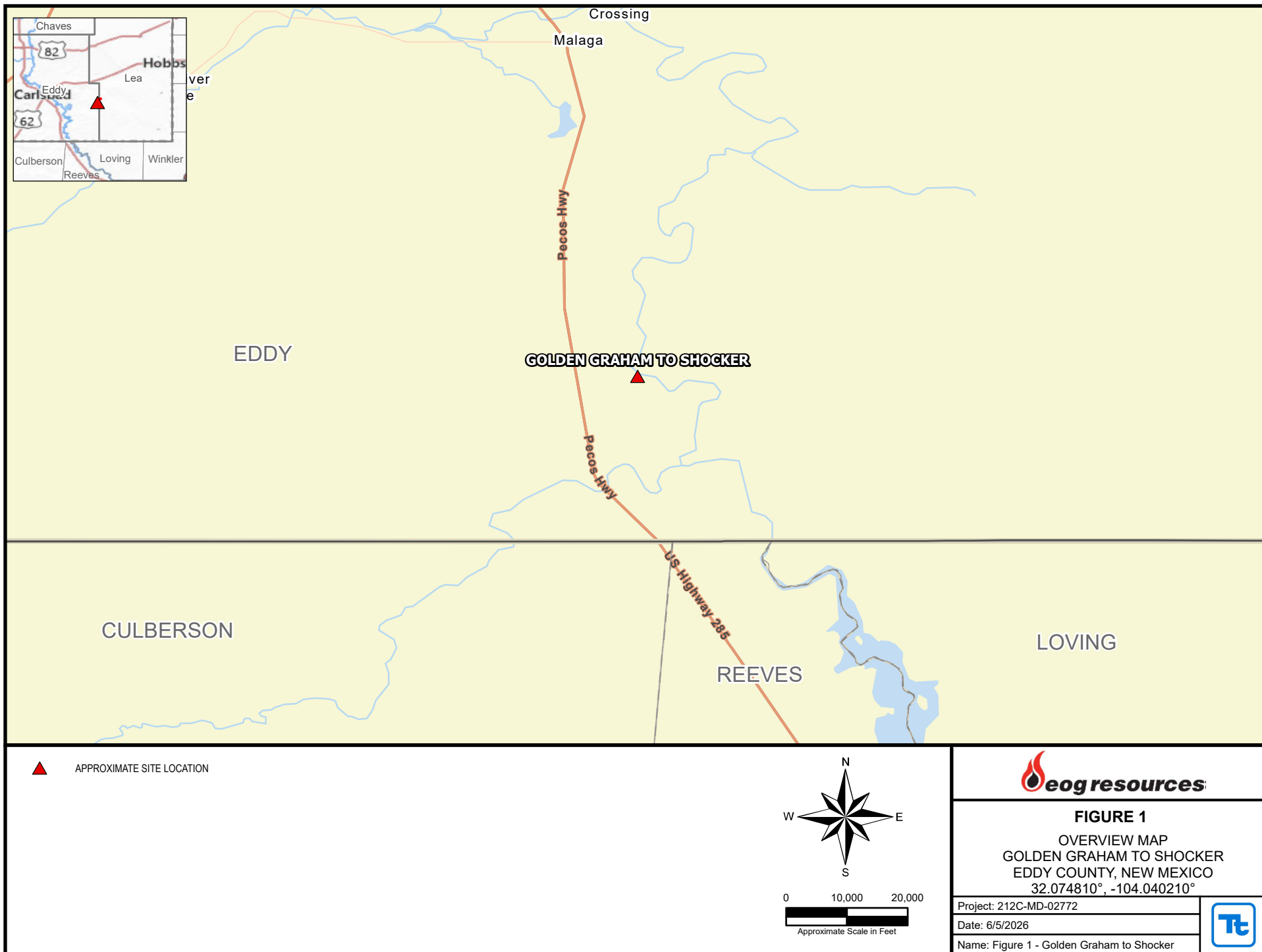
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REFERENCES

1. Houston, N.A., Thomas, J.V., Ging, P.B., Teeple, A.P., Pedraza, D.E., and Wallace, D.S., 2019, Pecos River Basin salinity assessment, Santa Rosa Lake, New Mexico, to the confluence of the Pecos River and the Rio Grande, Texas, 2015: U.S. Geological Survey Scientific Investigations Report 2019-5071, 75 p., <https://doi.org/10.3133/sir20195071>. ISSN: 2328-0328

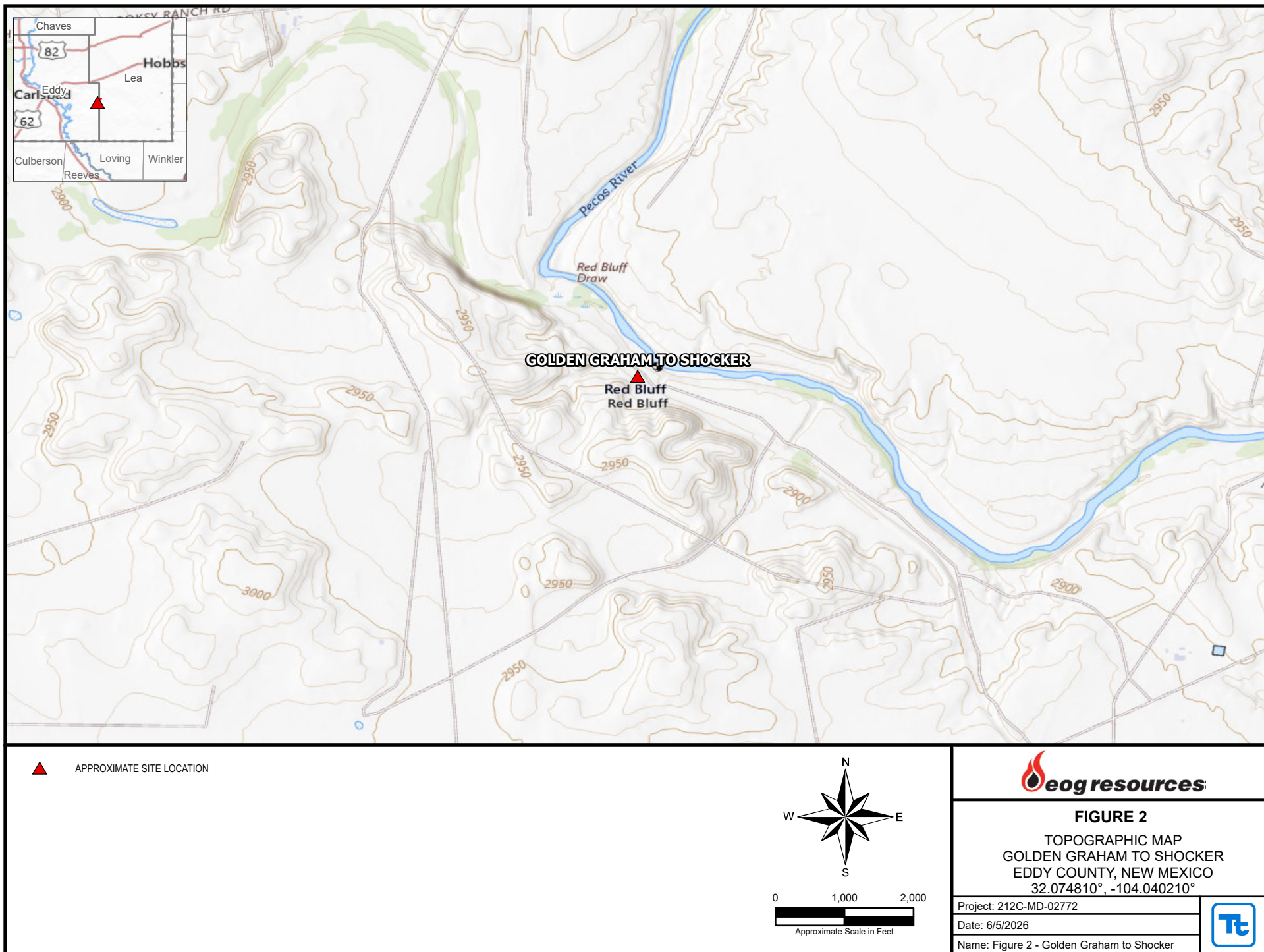
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FIGURES



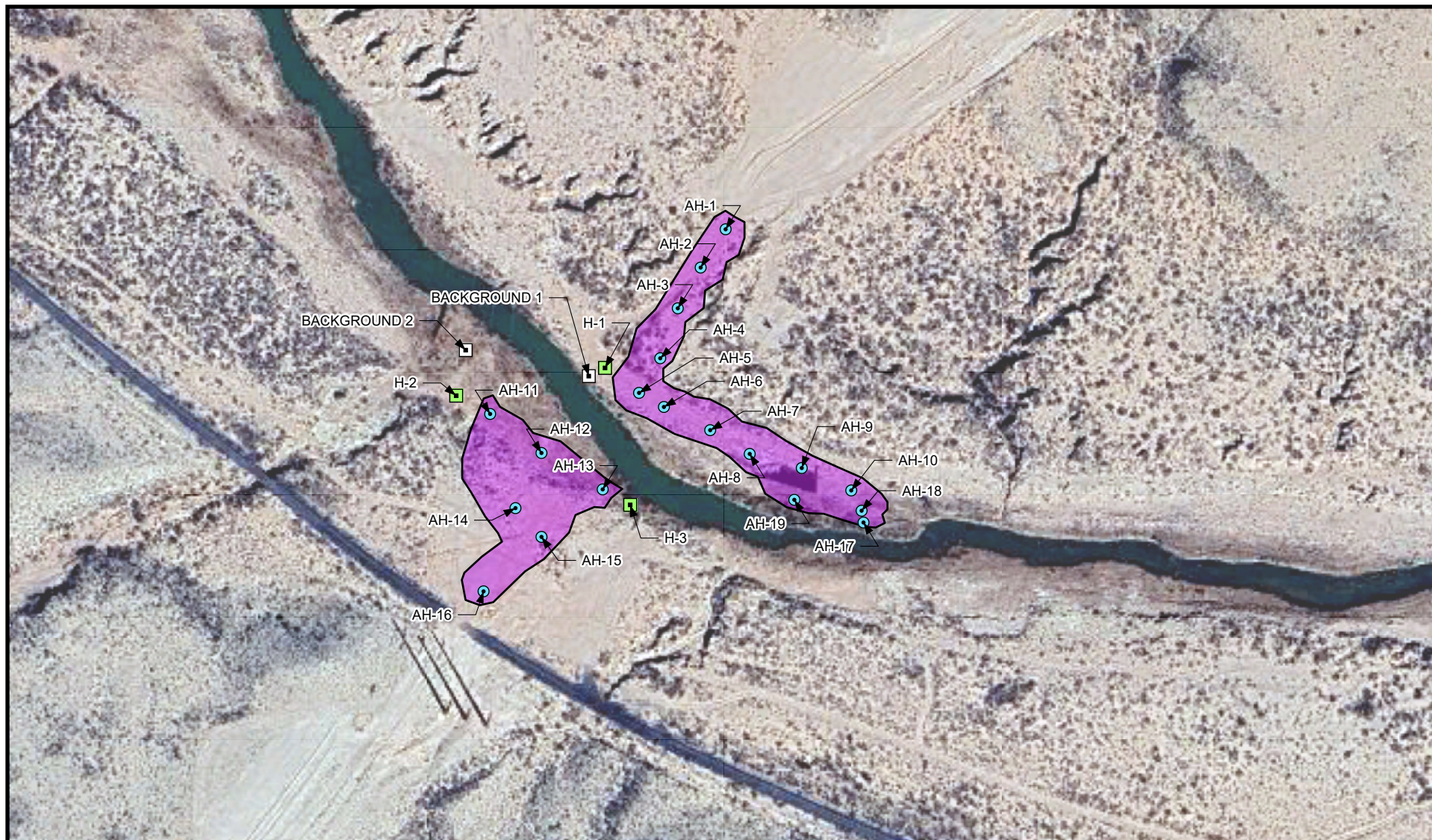
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Source: ESRI World Street Map.



Source: USGS Topographic, 2022.





- AUGERHOLE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- HORIZONTAL SAMPLE LOCATION
- WATER SAMPLE LOCATION
- IMPACTED SOILS

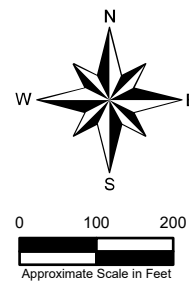


FIGURE 4

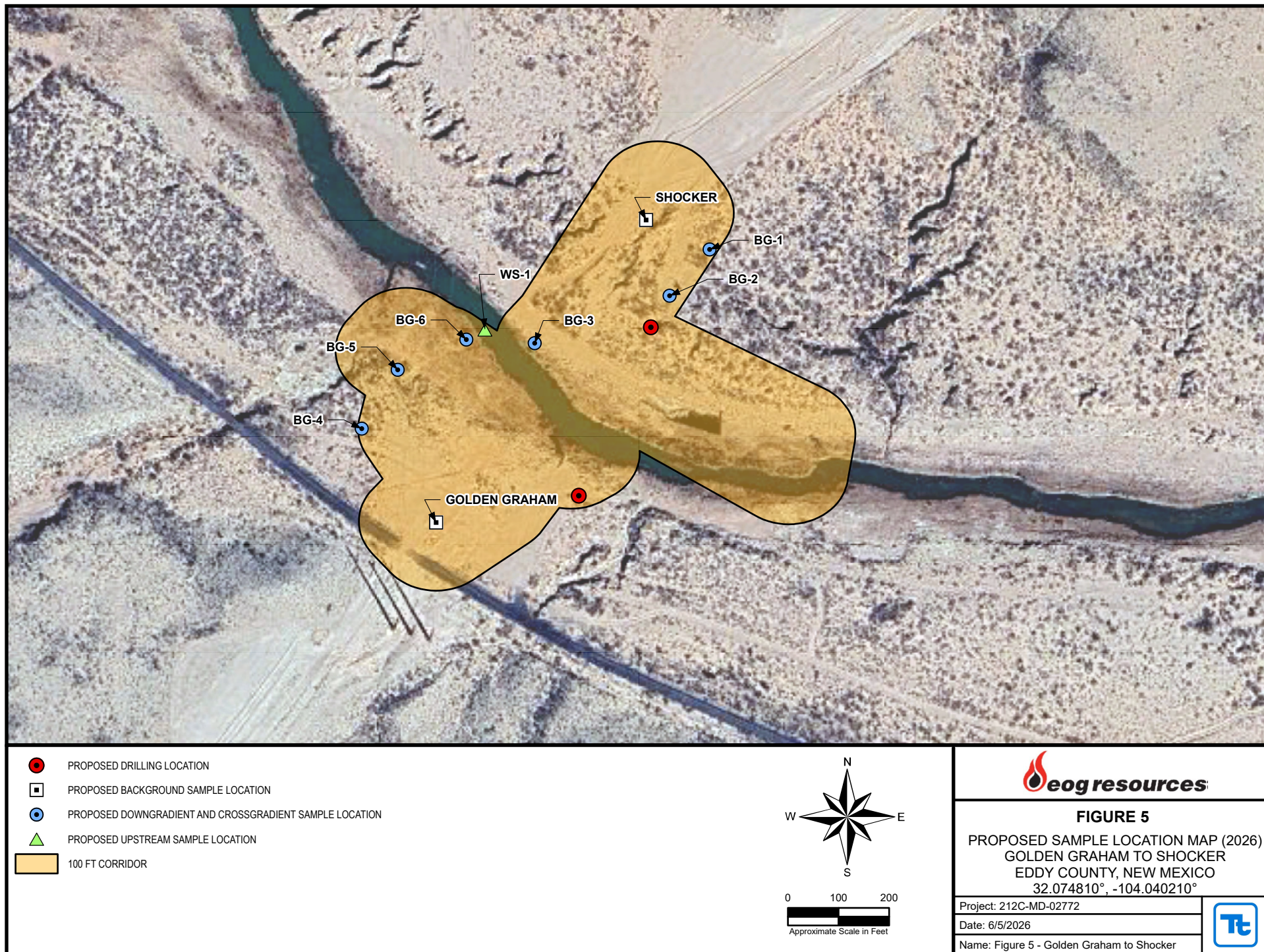
SPILL ASSESSMENT MAP (2022)
GOLDEN GRAHAM TO SHOCKER
EDDY COUNTY, NEW MEXICO
32.074810°, -104.040210°

Project: 212C-MD-02772

Date: 6/5/2026

Name: Figure 4 - Golden Graham to Shocker





Source: Google Maps, 2025.

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APPENDIX A – OCD DOCUMENTATION



nAB1910935399 GOLDEN GRAHAM TO SHOCKER SWD LINE RELEASE

General Incident Information

Well: [\[30-015-45324\]](#) GOLDEN GRAHAM 1 STATE COM #721H
Facility:
Operator: [\[7377\]](#) EOG RESOURCES INC
Status: Active
Stage: Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator
Type: Produced Water Release Severity: Major

Incident Location: G-01-26S-28E 0 FNL 0 FEL
Lat/Long: 32.07481,-104.04021 NAD83

District: Artesia County: Eddy (15)
Surface Owner: State

Severity Indicators

Resulted In Fire:	☐	Resulted In Injury:	☐
Endangered Public Health:	☐	Will or Has Reached Watercourse:	☐
Fresh Water Contamination:	☐	Property Or Environmental Damage:	☐

Notes

Source of Referral:	Industry Rep	Action / Escalation:	Referred to Environmental Inspector
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Contact Details

Contact Name:	Kelton Beaird	Contact Title:	Environmental Supervisor
---------------	---------------	----------------	--------------------------

Event Dates

Date of Discovery:	04/01/2019	Initial C-141 Report Due:	4/16/2019
		Remediation Closure Report Due:	07/18/2023

Quick Links

- [General Incident Information](#)
- [Materials](#)
- [Events](#)
- [Orders](#)
- [Action Status](#) ↗

Associated Images

- [Incident Files \(4\)](#)
- [Well Files \(21\)](#)

New Searches

- [New Facility Search](#) ↗
- [New Incident Search](#) ↗
- [New Operator Search](#) ↗
- [New Pit Search](#) ↗
- [New Well Search](#) ↗





Incident Dates

19.15.29 NMAC - RELEASES

Type	Action	Received	Denied	Approved
Sampling Notice	[366217]	07/22/2024		07/22/2024
Sampling Notice	[364992]	07/17/2024		07/17/2024
Remediation Plan		09/30/2022		04/19/2023
Site Characterization		09/30/2022		04/19/2023
Initial C-141 Report		04/04/2019		

19.15.30 NMAC - REMEDIATION

Type	Action	Received	Denied	Approved
------	--------	----------	--------	----------

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incident Materials

Cause	Source	Material	Volume				Units
			Unk.	Released	Recovered	Lost	
Human Error	Pipeline (Any)	Produced Water	☐	615	0	615	BBL
The concentration of dissolved chloride in the produced water >10,000 mg/l: ☐ Yes ☒ No							

Incident Events





OCD Permitting

Searches ▾ Operator Data ▾ Hearing Fee Application ▾

the line to over pressure, resulting in a parting of the 6" poly 3750 liner. The released liner was casing and released through the vent pipes located on each side of the river. The release migrated toward the river on the east and west side. Initial assessment of the impacted area does not indicate impact to the waters of the Pecos River. "

Incident Severity

Major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ No

From paragraph A. "Major release" determine using:

(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

Incident Corrective Actions

No initial response data was found for this incident.

No site characterization data was found for this incident.

No remediation plan data was found for this incident.

No active remediation deferral request was found for this incident.

No remediation closure report data was found for this incident.

No reclamation report data was found for this incident.

No re-vegetation report data was found for this incident.

Orders

2RP-5351-0



Applicant: [7377] EOG RESOURCES INC

Contact: James Kennedy
Reviewer: Amalia Bustamante

Approved By:
Issuing Office: Artesia

Processing Dates

Received: 05/09/2024

Ordered: 05/09/2024



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OCD Permitting

Searches ▾ Operator Data ▾ Hearing Fee Application ▾

Incident Events

Date	Detail
07/22/2024	The (07/22/2024, C-141N) application [366217] was assigned to this incident.
07/17/2024	The (07/17/2024, C-141N) application [364992] was assigned to this incident.
04/19/2023	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The release will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. Confirmation samples should be collected every 200 ft2. The background criteria of 3,330 mg/kg is not accepted. All background samples should be collected in 1-foot increments down to the depth equivalent to the deepest depth of the excavation, which in this case appears to be roughly 4 to 5 feet. The four background numbers at a depth of 1 foot should be averaged. The four background numbers at a depth of 2 feet should be averaged and so on. The composite numbers will be used for the final background numbers.
04/19/2023	The (04/19/2023, C-141) application [147710] was accepted by OCD. The operator was emailed with details of this event.
04/19/2023	An application [147710] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
09/30/2022	The (04/19/2023, C-141) application [147710] was assigned to this incident.
05/02/2022	The (05/02/2022, C-141) application [72135] was rejected by OCD. The operator was emailed with details of this event.
05/02/2022	An application [72135] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
01/13/2022	The (05/02/2022, C-141) application [72135] was assigned to this incident.
04/01/2019	2RP-5351 C-141 received 4/04/2019 for release 04/01/2019. Cause listed as, "8" poly SWD line carrying produced water from the Golden Graham 1 St Com #701H and #721H Facility to Shocker SWD #1 and a 3rd Party SWD owned by Solaris. The subject line is bored under the Pecos River, and is encased in a 10" steel casing pipe. During operations, the Solaris SWD was shut in for an unknown reason, causing the line to over pressure, resulting in a parting of the 8" poly SWD line. The release filled the casing and released through the vent pipes located on each side of the river. The release migrated toward the river on the east and west side. Initial assessment of the impacted area does not indicate impact to the waters of the Pecos River. "

Incident Severity





30-015-45324 GOLDEN GRAHAM 1 STATE COM #721H [322721]

✓ Make this my default layout

Well Navigation ^

Well Links

General Well Information

Comments

Pits

Casings

Formation Tops

Well Completions

Financial Assurance

Compliance

Venting & Flaring

Orders

Production / Injection

OCD Mitigation Activity

Transporters

Points of Disposition

Quick Links

Well Files 21

Well Logs 0

Well Admin Order Files

Action Status

General Well Information



Operator: [7377] EOG RESOURCES INC

Status: Active

Well Type: Gas

Work Type: New

Surface Location: M-01-26S-28E 221 FSL 732 FWL

Lat / Long: 32.0649852,-104.0469049 NAD83

GL Elevation: 2940

KB Elevation:

DF Elevation:

Direction: Horizontal

Multi-Lateral: No

Mineral Owner: State

Surface Owner: State

Single / Multi Compl: Single

Potash Waiver: No

C-129 Incidents: 0

Proposed Formation and/or Notes

WOLFCAMP

Depths

Proposed: 20048

Measured Vertical Depth: 19870

True Vertical Depth: 9871

Plugback Measured: 19882

Event Dates

Initial APD Approval: 10/12/2018

Latest APD Approval: 10/16/2018

APD Cancellation:

APD Ext Approval:

Spud: 11/15/2018

Approved TA:

Shut In:

Plug & Abandoned Intent:

Well Plugged:

Site Release:

Last Inspection: 05/28/2025

Current APD Expiration: 10/16/2020

Gas Capture Plan: 10/12/2018

TA Expiration:

PNR Expiration:

Last MIT / BHT:

History

Sorting Enabled: View Instructions +

Effective Date ▾	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
10/16/2018	[322721] GOLDEN GRAHAM 1 STATE COM	#721H	[7377] EOG RESOURCES INC	New	Gas	Active		



*Remediation Work Plan
Golden Graham to Shocker API: 30-015-45324
June 08, 2026*

APPENDIX B – PHOTOGRAPHIC DOCUMENTATION

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river vent pipe



East side of the river vent pipe

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river vent pipe



East side of the river, looking west washout

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river, looking west over flood plain



East side if the river looking east over bluffs

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



Monday, July 22, 2019 at 9:43:17 AM

East side if the river salt staining



Monday, July 22, 2019 at 9:42:53 AM

East side of the river looking west over flood plain

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river looking west over flood plain



East side of the river looking west over vegetation die back

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking north



East side of the river looking north

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river, looking north



West side of river looking south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



West side of the river looking north



West side of the river looing south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river looking north



West side of the river looking south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river looking west



West side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river looking north over washout



East side of the river looking east over wash out

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking north over flood plain



West side of the river looking south over river

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east over river



West side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico

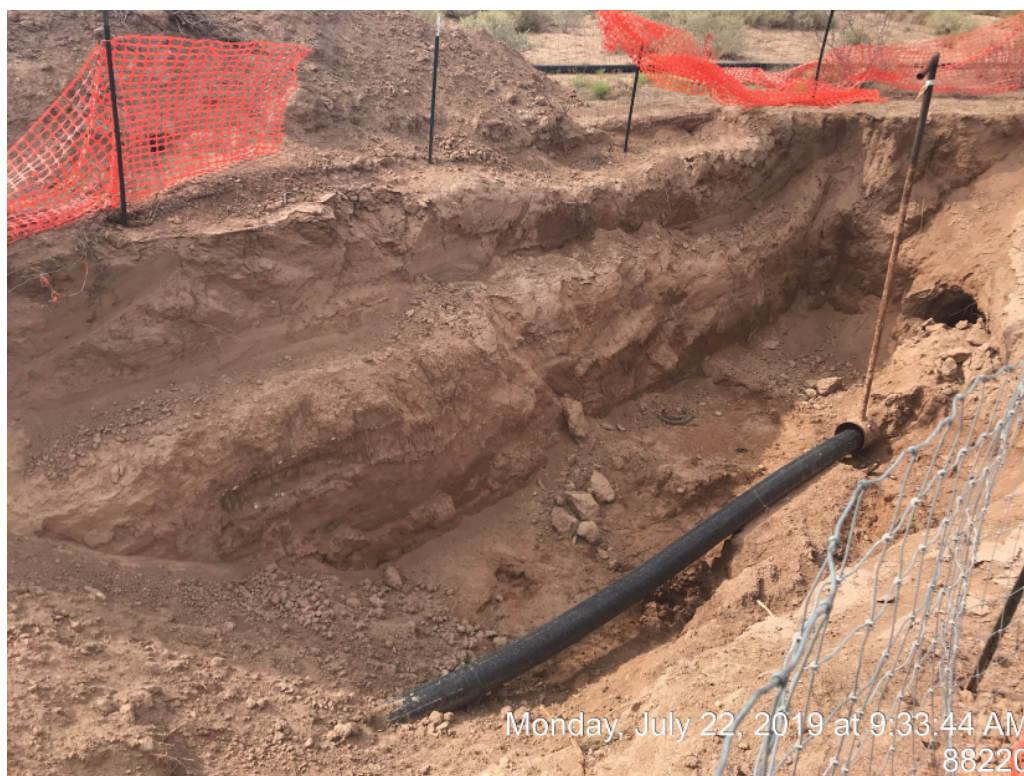


East side of the river looking west



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river vent pipe



East side of the river vent pipe

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river vent pipe



East side of the river, looking west washout

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river, looking west over flood plain



East side if the river looking east over bluffs

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side if the river salt staining



East side of the river looking west over flood plain

EOG
Golden Graham to Shocker
Eddy County, New Mexico



East side of the river looking north



East side of the river looking north

EOG
Golden Graham to Shocker
Eddy County, New Mexico



West side of the river looking south, Railroad tracks



West side of the river looking north

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east



West side of river vent pipe repair

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river, looking north



West side of river looking south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



West side of the river looking north



West side of the river looing south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



West side of river looking north



West side of the river looking south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking west



West side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking north over washout



East side of the river looking east over wash out

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking north over flood plain



West side of the river looking south over river

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river looking north over arch site



West side of the river looking south over arch site

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east over river



West side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking west



East side of the river looking west

*Remediation Work Plan
Golden Graham to Shocker API: 30-015-45324
June 08, 2026*

APPENDIX C – BIOLOGICAL ASSESSMENT DOCUMENTATION

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Eddy County, New Mexico



Local office

New Mexico Ecological Services Field Office

☎ (505) 346-2525

📠 (505) 346-2542

2105 Osuna Road Ne
Albuquerque, NM 87113-1001

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1923	EXPN
Piping Plover <i>Charadrius melodus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6039	Threatened
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6749	Endangered

Fishes

NAME	STATUS
Pecos Pupfish <i>Cyprinodon pecosensis</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/5162	Proposed Threatened

Clams

NAME	STATUS
Texas Hornshell Popenaias popeii	Endangered
Wherever found	
There is proposed critical habitat for this species. Your location does not overlap the critical habitat.	
https://ecos.fws.gov/ecp/species/919	

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus	Proposed Threatened
Wherever found	
There is proposed critical habitat for this species. Your location does not overlap the critical habitat.	
https://ecos.fws.gov/ecp/species/9743	

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act² and the Migratory Bird Treaty Act (MBTA)¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their nests, should follow appropriate regulations and implement required avoidance and minimization measures, as described in the various links on this page.

The [data](#) in this location indicates that no eagles have been observed in this area. This does not mean eagles are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the [Supplemental Information on Migratory Birds and Eagles document](#) to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine if eagles may be present (e.g. your local FWS field office, state surveys, your own surveys).

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply).

Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there,

and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Migratory birds

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Measures for Proactively Minimizing Migratory Bird Impacts

Your IPaC Migratory Bird list showcases [birds of concern](#), including [Birds of Conservation Concern \(BCC\)](#), in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the [Nationwide avoidance and minimization measures for birds](#) document, and any other project-specific avoidance and minimization measures suggested at the link [Measures for avoiding and minimizing impacts to birds](#) for the birds of concern on your list below.

Ensure Your Migratory Bird List is Accurate and Complete

If your project area is in a poorly surveyed area, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the [Supplemental Information on Migratory Birds and Eagles document](#), to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

Review the FAQs

The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Clark's Grebe <i>Aechmophorus clarkii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31
Henry's Common Nighthawk <i>Chordeiles minor henryi</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 21 to Aug 25

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

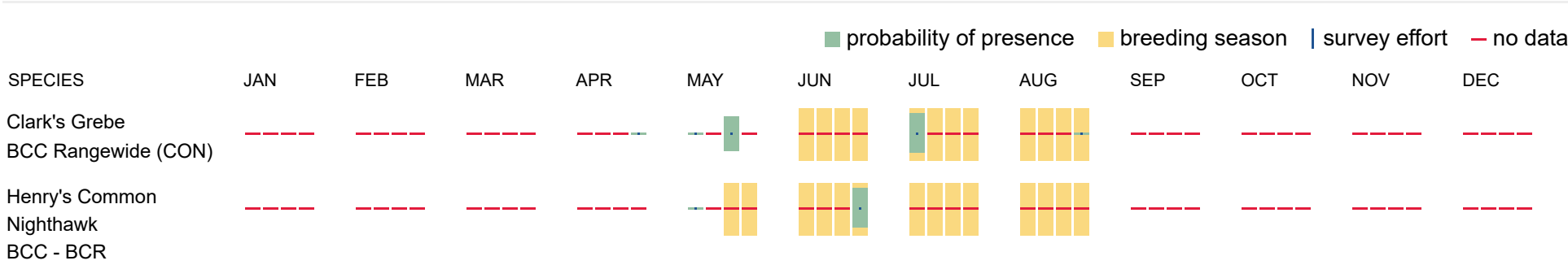
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Avoidance & Minimization Measures for Birds](#) describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the [Bald and Golden Eagle Protection Act](#) and those species marked as "Vulnerable". See the FAQ "What are the levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Bald and Golden Eagle Protection Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ "Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a

lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

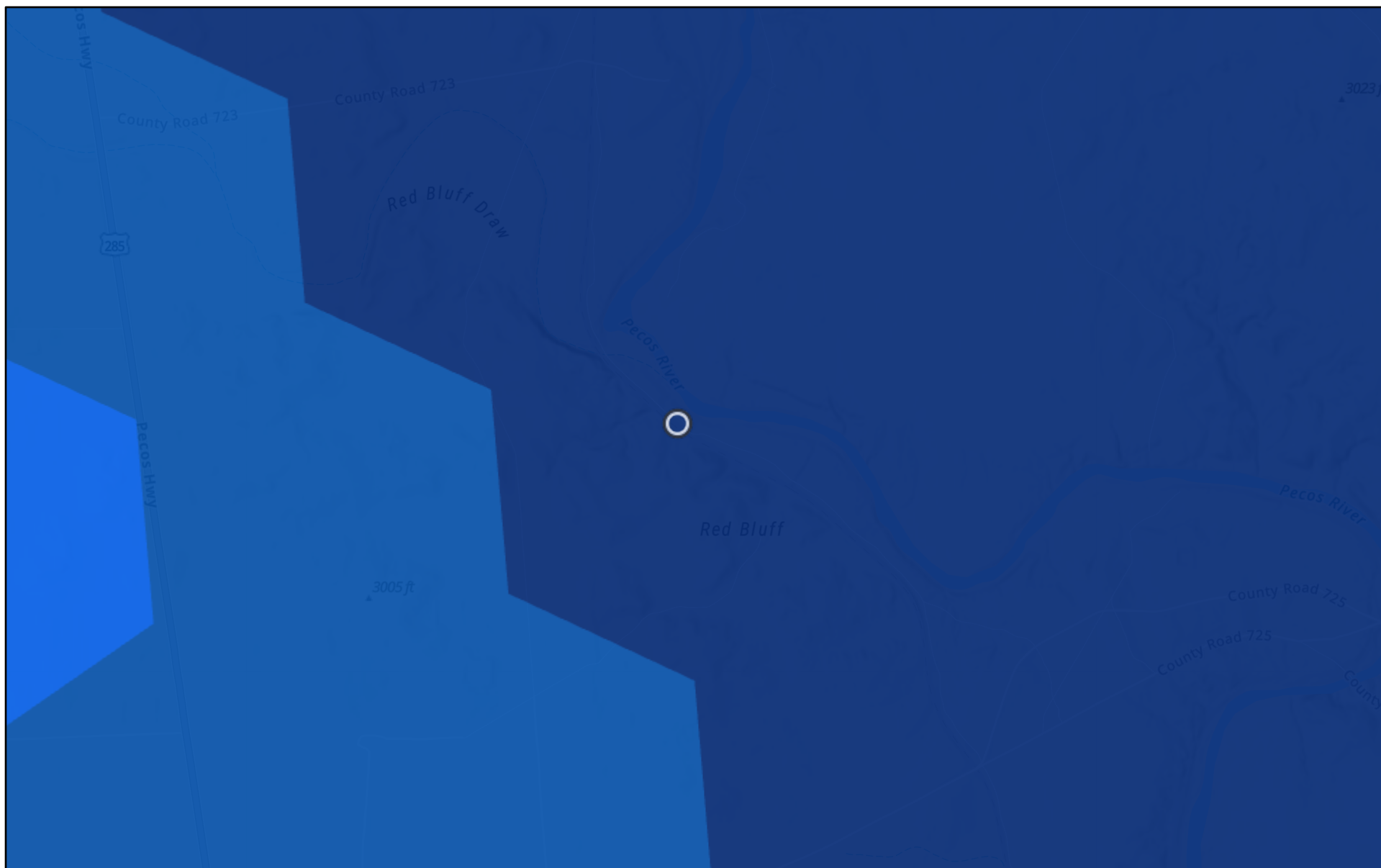
Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

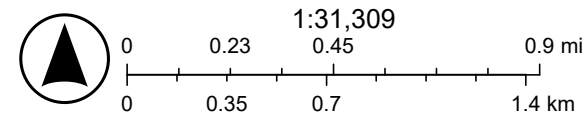
Golden Graham to Shocker



5/27/2026

Crucial Habitat (2024)

Dark Blue	1
Medium Blue	2
Light Blue	3



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS, FEMA

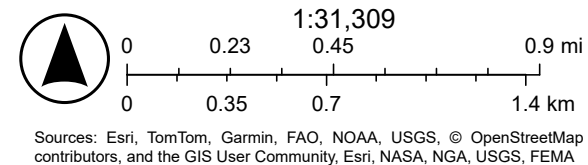
Golden Graham to Shocker



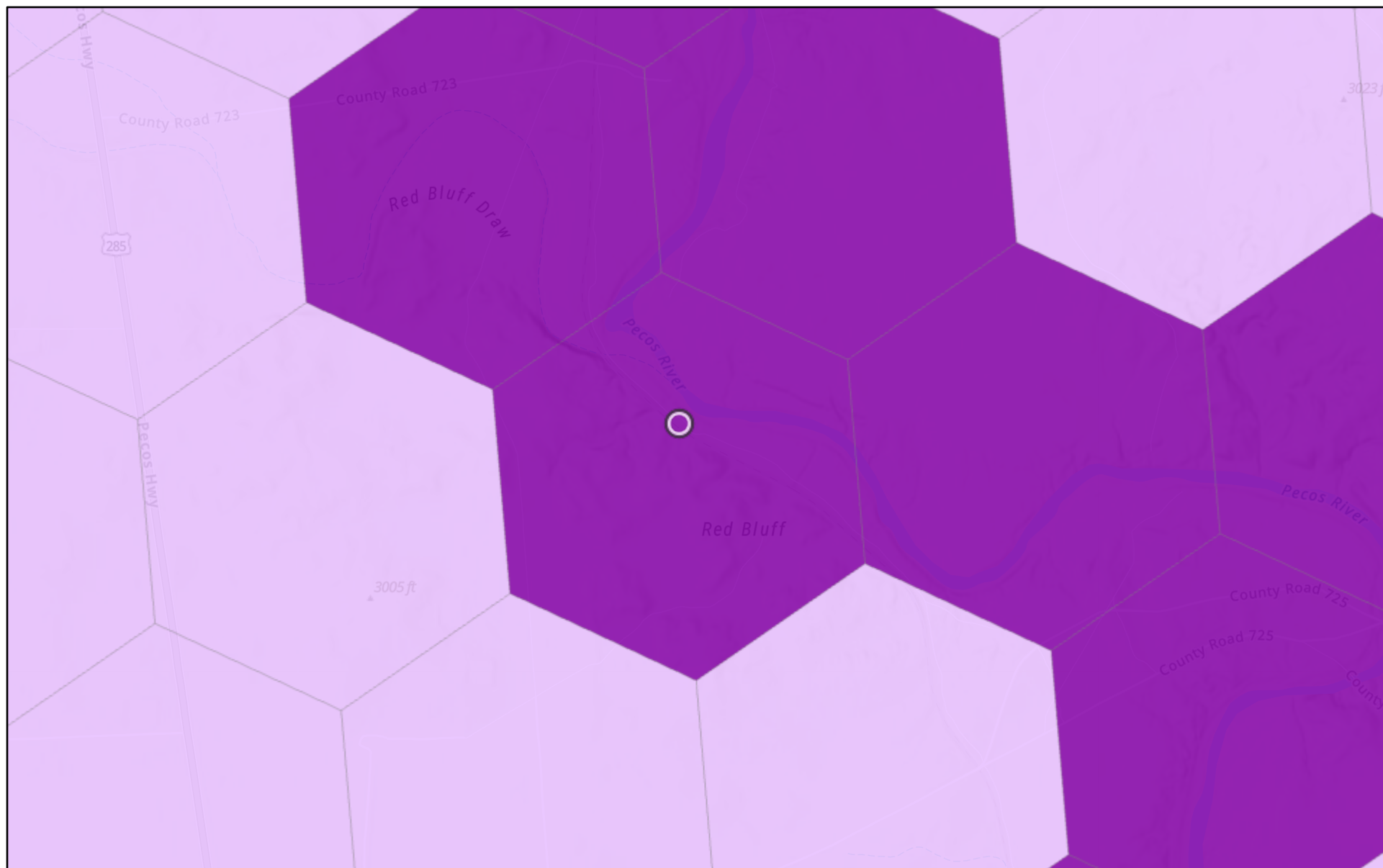
5/27/2026

Species of Concern (2024)

2	3
1	



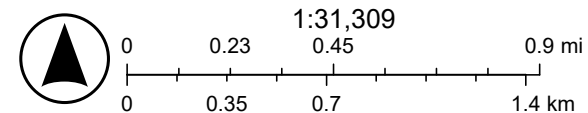
Golden Graham to Shocker



5/27/2026

Aquatic SERI 6

1



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS, FEMA

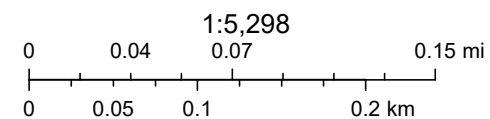
BLM Plant Habitat Status



3/10/2026

Potential Habitat (Planning Area Only)

 Scheer's beehive cactus

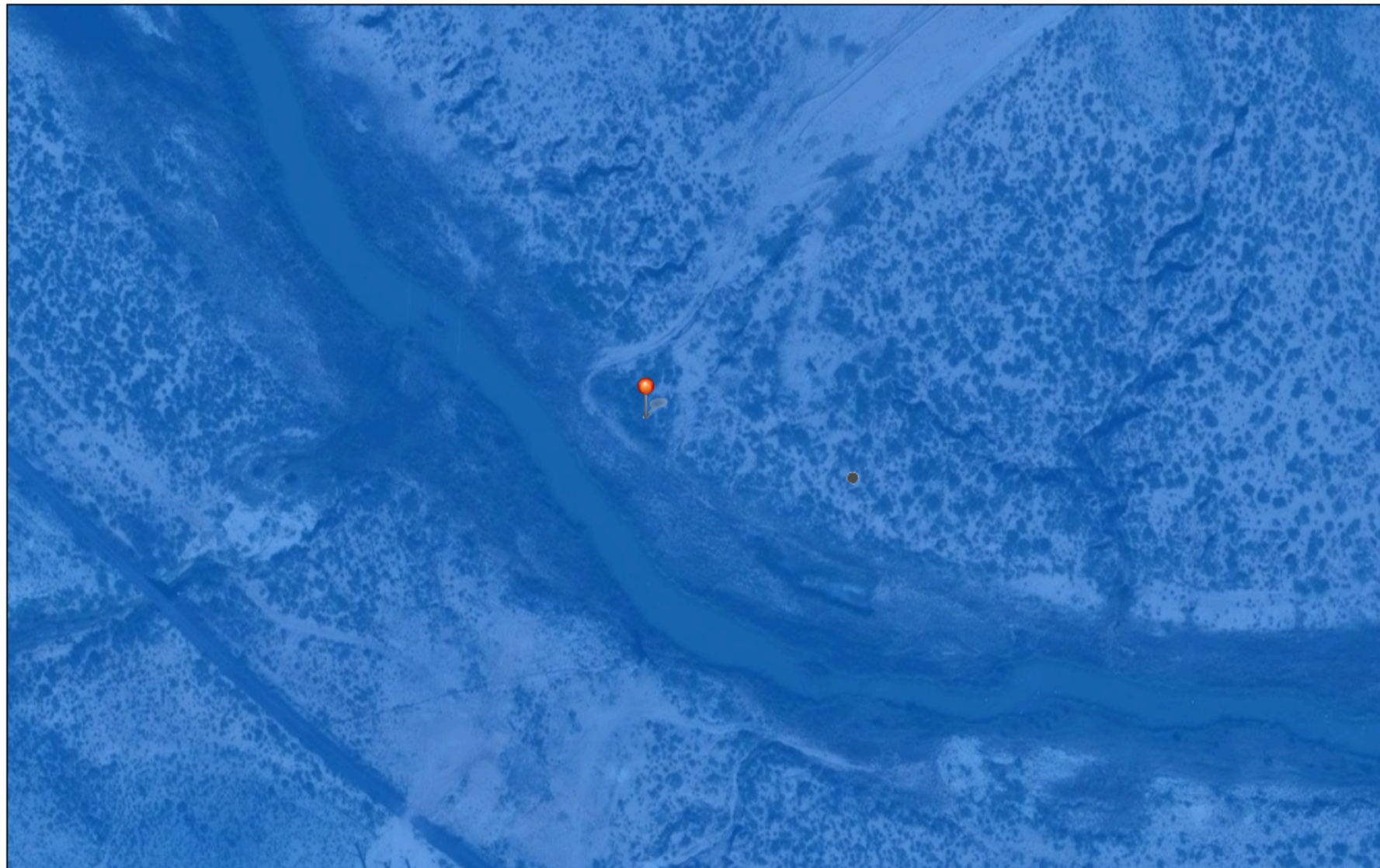


Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Bureau of Land Management -

*Remediation Work Plan
Golden Graham to Shocker API: 30-015-45324
June 08, 2026*

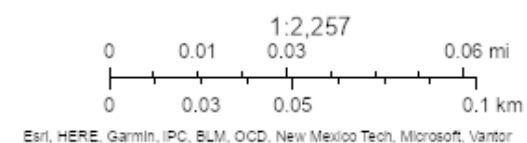
APPENDIX D – SITE CHARACTERIZATION DOCUMENTATION

OCD Permian Basin Karst Areas

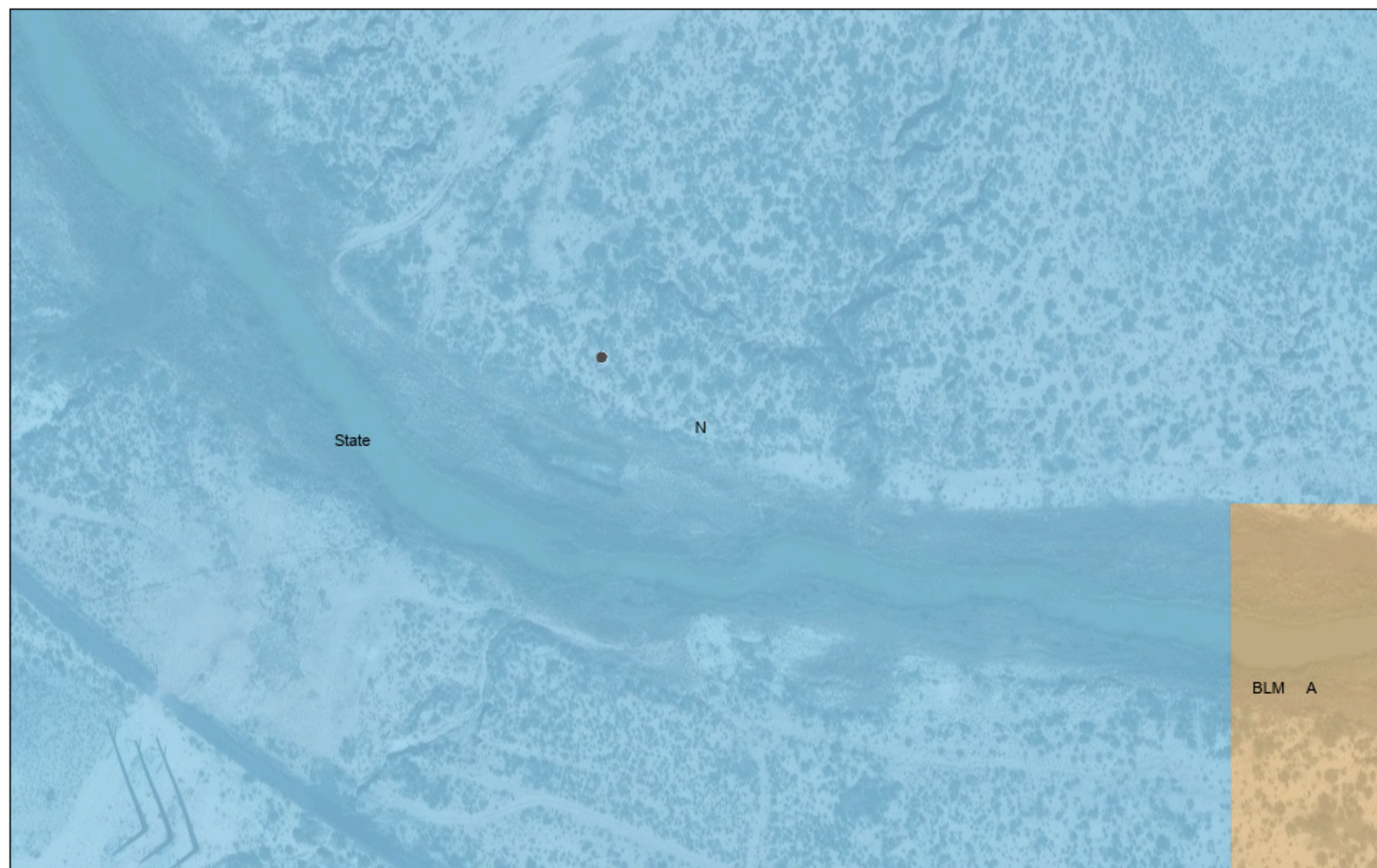


3/10/2026, 10:04:00 PM

 Override 1  Karst Occurrence Potential
Medium



Mineral and Surface Ownership



3/10/2026, 9:58:47 PM

Mineral Ownership

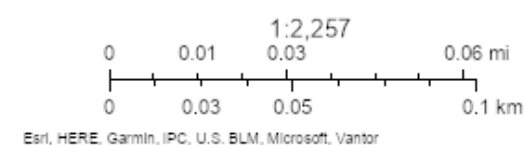
A-All minerals are owned by U.S.

N-No minerals are owned by the U.S.

Land Ownership

BLM

S



New Mexico Oil Conservation Division
NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75> New Mexico Oil Conservation Division

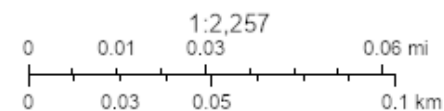
NM SLO Oil and Gas Leases



3/10/2026, 10:00:16 PM

Oil and Gas Leasing Restrictions

Oil and Gas Leases



Esri, HERE, Garmin, IPC, Microsoft, Vantor

An official website of the United States government [Here's how you know](#)



MENU

Monitoring location

25S.28E.35.2324 - USGS-320518104031401

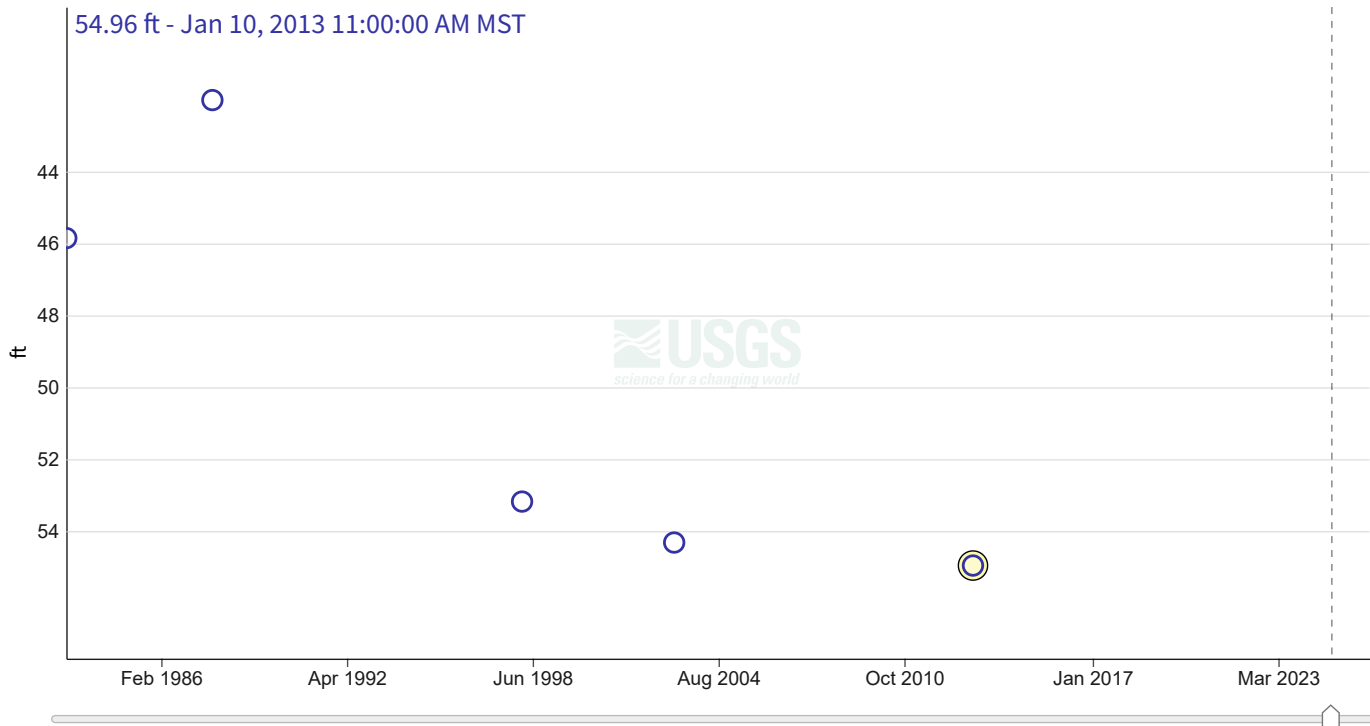
DID YOU KNOW You can see all water data collected at this monitoring location in the *Available data* section of the page. Learn more about [centralized water data delivery](#) in WDFN.

☐ 1 year ☐ 10 years ☒ Period of record

Field measurements

25S.28E.35.2324 - USGS-320518104031401

December 8, 1982 - March 10, 2026
Depth to water level, feet below land surface



IMPORTANT Data may be [provisional](#)

[Hide legend](#)

- Field measurement
- Selected field measurement

[Hide legend](#)

[Hide graph details](#)

	Value	Status	
Selected field measurement	54.96	Approved Static	Jan 10, 2013 11:00:00 AM MST

[Hide graph details](#)

Change
time span

Download
data

View
data records

Available data

Show all data types

Select data types to graph from categories based on the way the data were collected.
[Learn about the data collection categories](#)

Continuous data

0 data types available

Daily data

0 data types available

Field measurements

3 data types available - data from 1982-12-08 to 2013-01-10

Hide these data types

Field measurements are physically measured values collected during a visit to the monitoring location.
[Learn about Field measurements](#)

Data type		Data date range
Graphed	Depth to water level, feet below land surface	1982-12-08 2013-01-10
Graph it	Groundwater level above NAVD 1988, feet	1982-12-08 2013-01-10
Graph it	Groundwater level above NGVD 1929, feet	1982-12-08 2013-01-10
		Hide these data types

Discrete sample data

0 observed properties (data types) available

Questions or Comments

Statistical tables for select daily data types

0 data types available

Location details and information

Hide location details

Metadata Element	Location Metadata	Metadata Code
Agency ⓘ	U.S. Geological Survey	USGS
Location identification number ⓘ	320518104031401	n/a
Location name ⓘ	25S.28E.35.2324	n/a
Site type ⓘ	Well ⓘ	GW
Decimal latitude	32.0886111111111	n/a

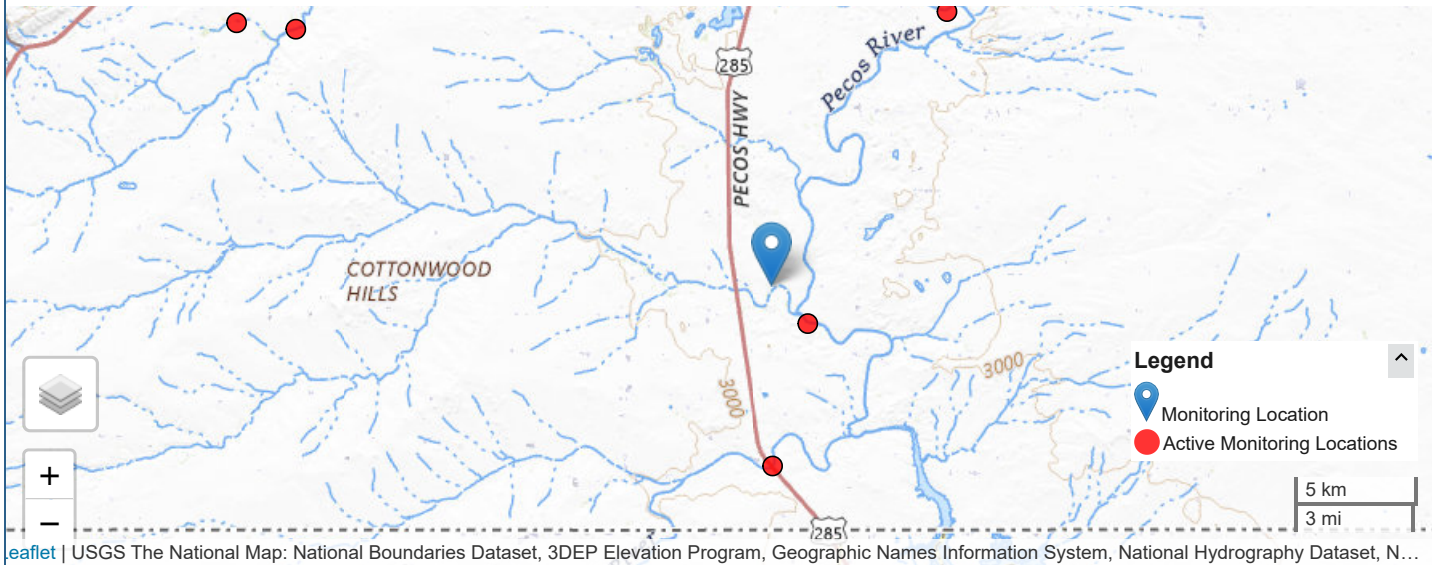
Metadata Element	Location Metadata	Metadata Code
Decimal longitude	-104.054805555556	n/a
Latitude-longitude method ⓘ	Mapping grade GPS unit (handheld accuracy range 12 to 40 ft)	G
Latitude-longitude accuracy ⓘ	Accurate to + or - 3 sec (SPS GPS).	R
Latitude-longitude datum ⓘ	North American Datum of 1983	NAD83
District ⓘ	New Mexico	35
State ⓘ	New Mexico	35
County ⓘ	Eddy County	015
Country	United States of America	n/a
Altitude of gage/land surface	2897 feet	n/a
Method altitude determined	Interpolated from topographic map.	M
Altitude accuracy	5 feet	n/a
Altitude datum ⓘ	National Geodetic Vertical Datum of 1929	NGVD29
Subbasin hydrologic unit ⓘ	Upper Pecos-Black	13060011
Drainage basin ⓘ		n/a
Date of first construction ⓘ		n/a
Drainage area ⓘ		n/a
Contributing drainage area		n/a
Time zone abbreviation	MST	n/a
Site honors Daylight Saving Time ⓘ	Y	n/a
National aquifer	Other aquifers	N9999OTHER
Local aquifer	Rustler Formation	312RSLR
Local aquifer type		n/a
Well depth	180 feet	n/a
Hole depth ⓘ		n/a
Source of depth data	R	n/a

Monitoring locations with continuous data in last 120 days

5 locations found

[View these locations in My Favorites](#)

[Use Explore USGS Water Data to discover additional data near this location](#)



Interested in understanding how to access the upstream/downstream data? [Learn about the Network-Linked Data Index \(NLDI\)](#)

[DOI Privacy Policy](#) | [Legal](#) | [Accessibility](#) | [Site Map](#) | [Contact USGS](#)

Follow     

[U.S. Department of the Interior](#) | [DOI Inspector General](#) | [White House](#) | [No Fear Act](#) | [FOIA](#)

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest
NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 03508 POD1	NW	SW	SW	05	26S	29E	593063.4	3548361.2	

* UTM location was derived from PLSS - see Help

Driller License:	1058	Driller Company:	KEY'S DRILLING & PUMP SERVICE
Driller Name:	KEY, CLINTON		
Drill Start Date:	2011-08-24	Drill Finish Date:	2011-08-24
Log File Date:	2011-09-12	PCW Rcv Date:	
Pump Type:	SUBMER	Pipe Discharge Size:	
Casing Size:	6.00	Depth Well:	140
		Depth Water:	75

Water Bearing Stratifications:

Top	Bottom	Description
75	76	Shale/Mudstone/Siltstone

Casing Perforations:

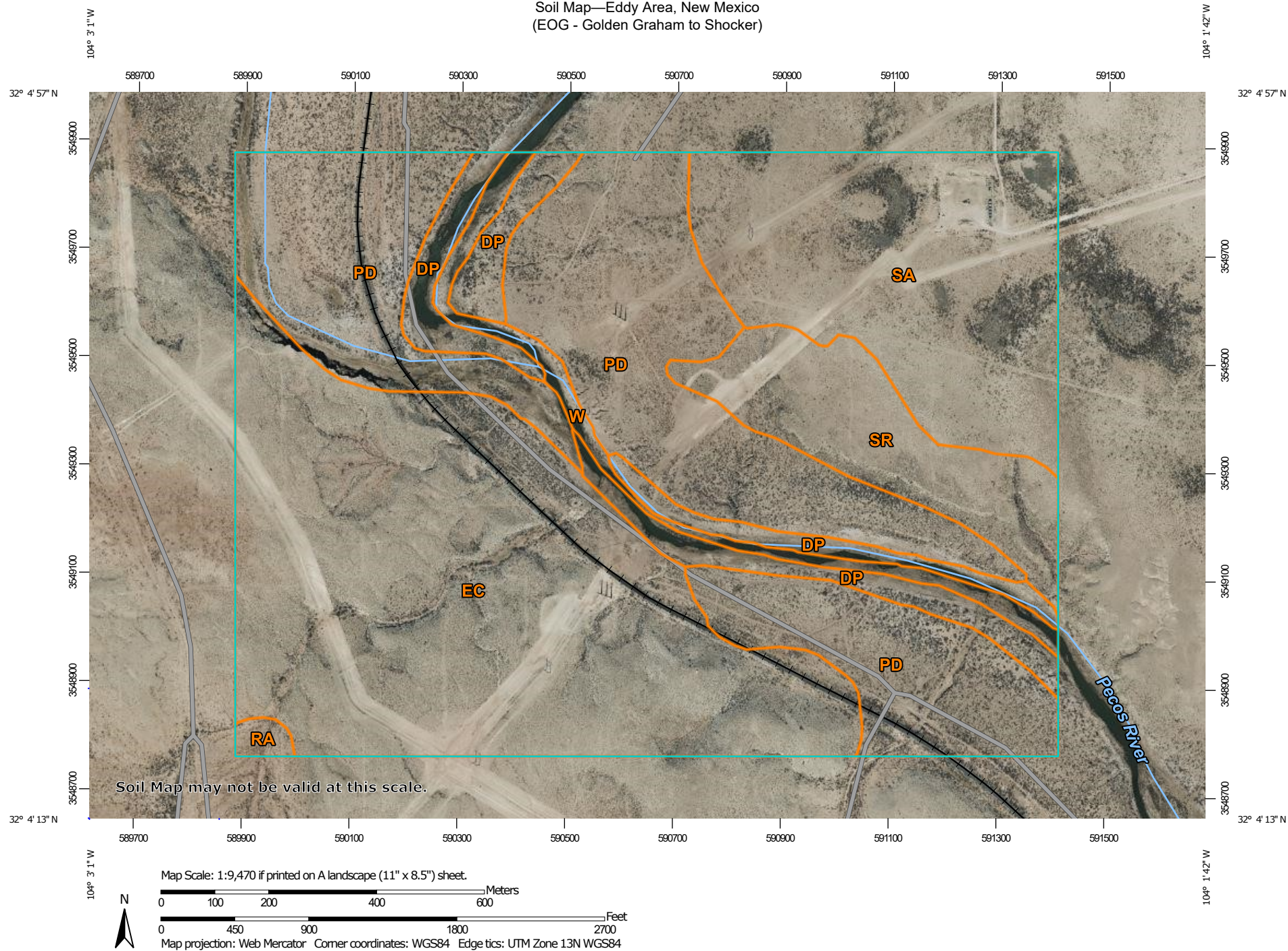
Top	Bottom
65	105

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/19/26 11:47 AM MST

Point of Diversion Summary

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Soil Map—Eddy Area, New Mexico
(EOG - Golden Graham to Shocker)Natural Resources
Conservation ServiceWeb Soil Survey
National Cooperative Soil Survey3/10/2026
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(EOG - Golden Graham to Shocker)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 21, Sep 9, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

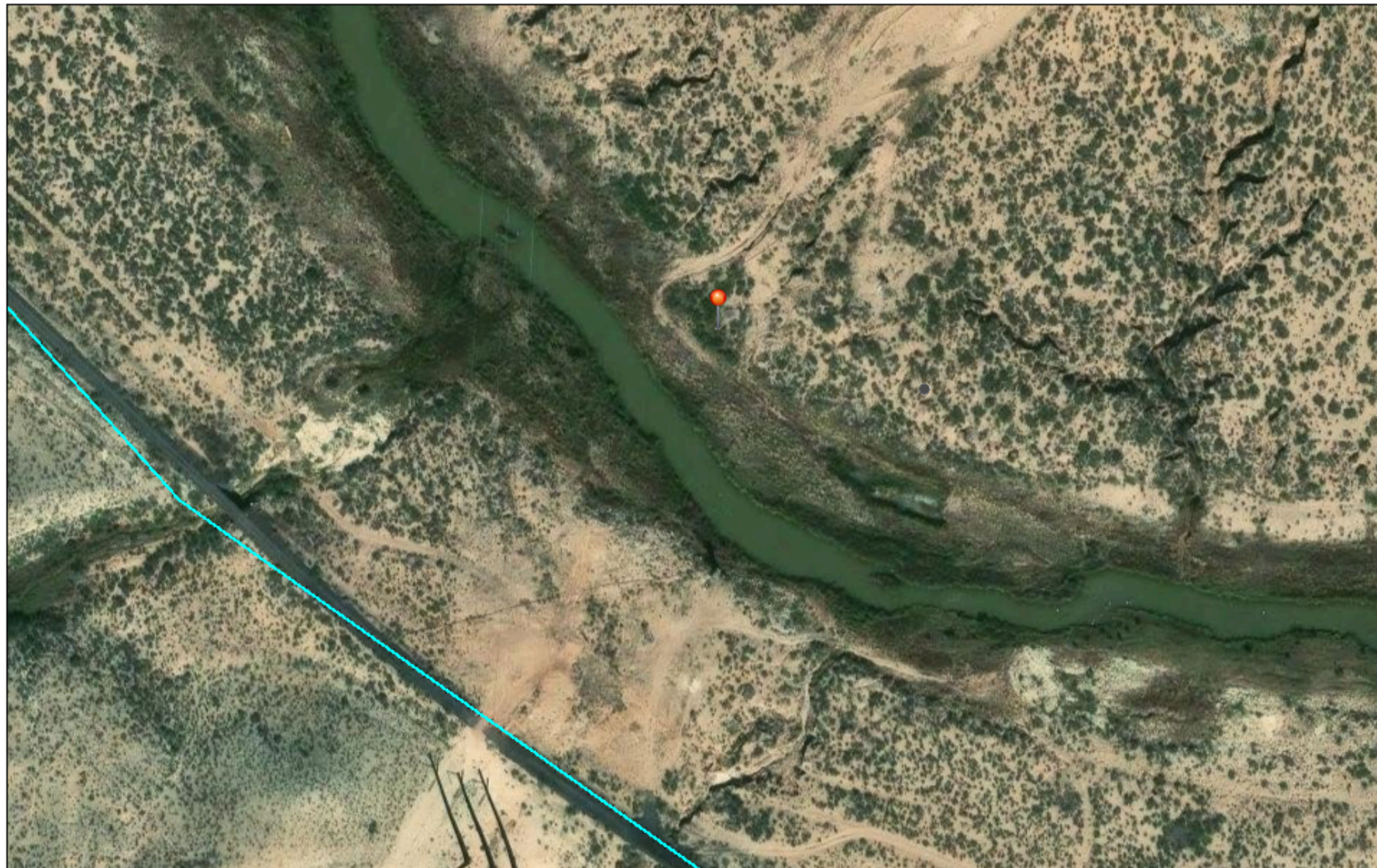
Date(s) aerial images were photographed: Mar 22, 2025—Apr 12, 2025

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DP	Dev-Pima complex, 0 to 3 percent slopes	30.8	7.3%
EC	Ector stony loam, 0 to 9 percent slopes	144.8	34.3%
PD	Pajarito-Dune land complex, 0 to 3 percent slopes	131.7	31.2%
RA	Reagan loam, 0 to 3 percent slopes	1.7	0.4%
SA	Simona sandy loam, 0 to 3 percent slopes	70.9	16.8%
SR	Stony and Rough broken land	31.6	7.5%
W	Water	10.9	2.6%
Totals for Area of Interest		422.5	100.0%

Political Boundaries and Transportation



3/10/2026, 10:02:37 PM

 Override 1
 NMDOT Railroads

1:2,257
0 0.01 0.03 0.06 mi
0 0.03 0.05 0.1 km
Esri, HERE, Garmin, IPC, US Census Bureau, NMDOT, Microsoft, Vantor

New Mexico Oil Conservation Division
NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75> New Mexico Oil Conservation Division

National Flood Hazard Layer FIRMMette



104°2'40"W 32°4'50"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°2'3"W 32°4'19"N

Released to Imaging: 7/15/2026 2:40:38 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

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



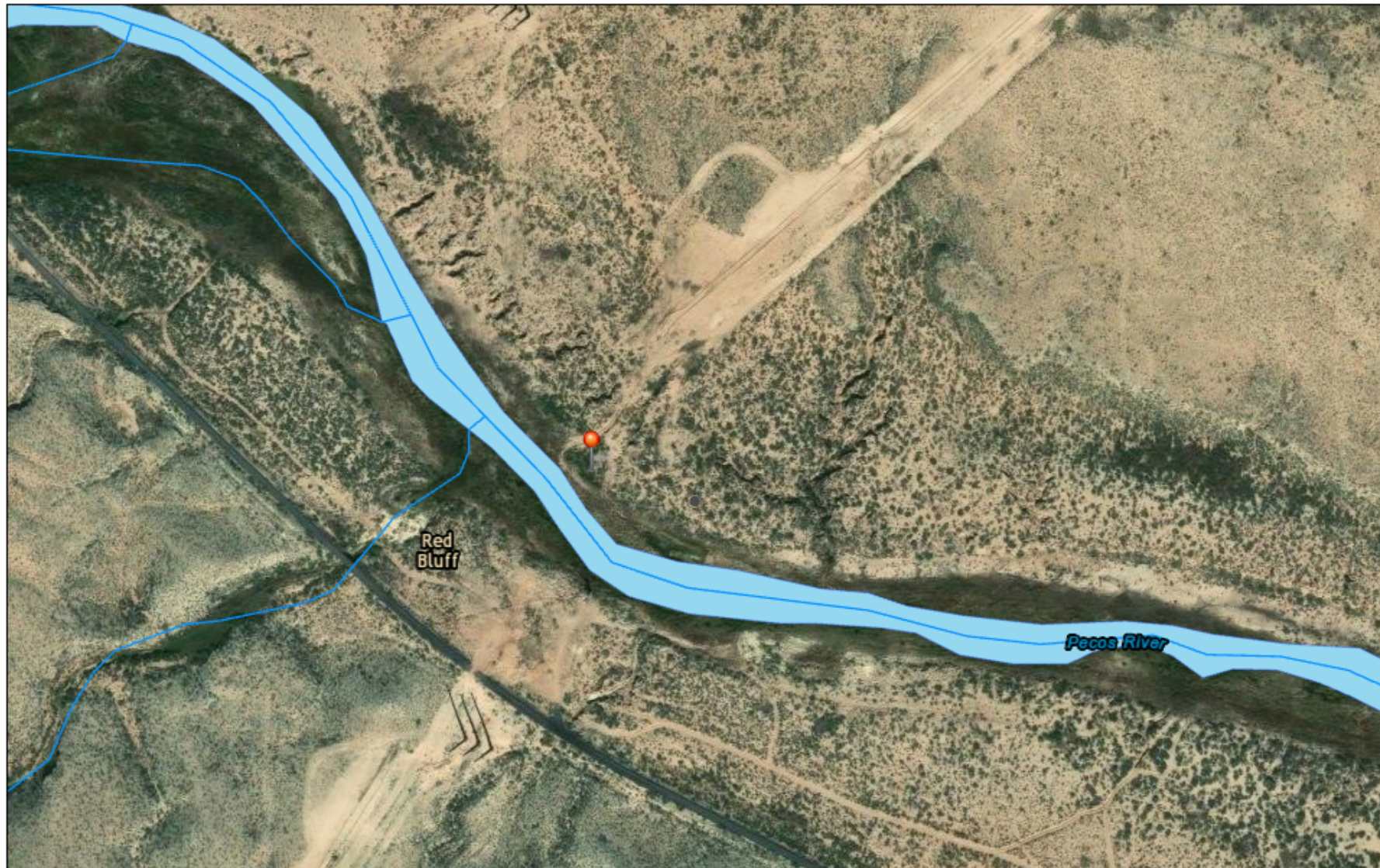
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/11/2026 at 5:43 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

OCD Hydrology

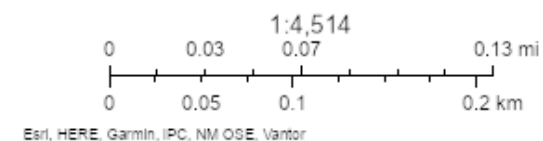


3/10/2026, 10:01:16 PM

 Override 1

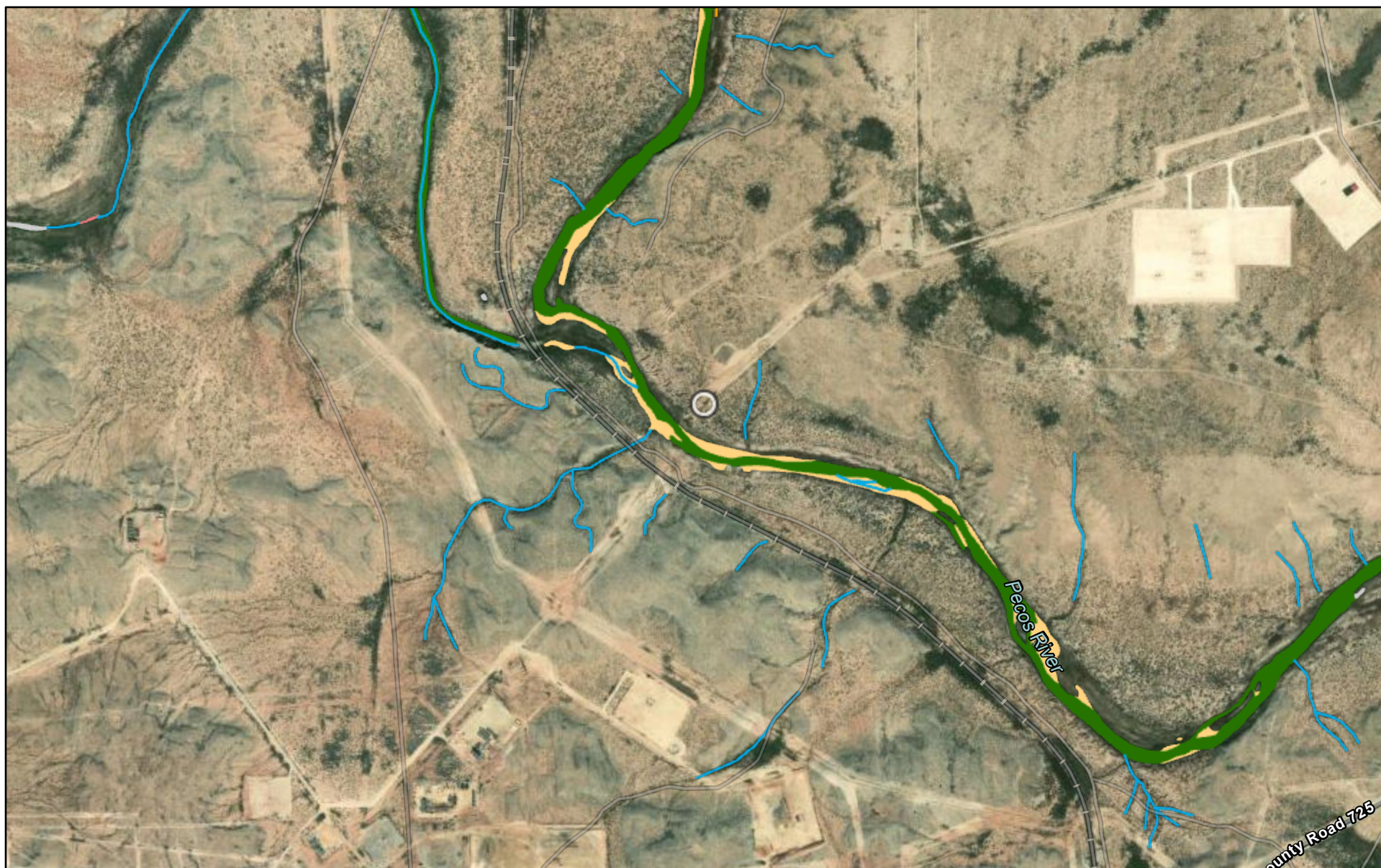
 OSW Water Bodys

 OSE Streams



New Mexico Oil Conservation Division
NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75> New Mexico Oil Conservation Division

NM Environmental Floodplains and Wetlands



3/10/2026

NWI Linears

Palustrine Emergent (PEM)

Riverine (R2, R3, R4)

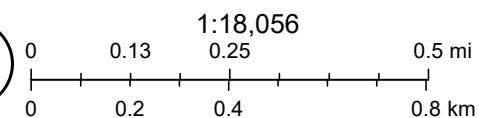
NWI Polygons

Palustrine Emergent (PEM)

Palustrine Scrub Shrub (PSS)

Palustrine Unconsolidated (PUB, PUS)

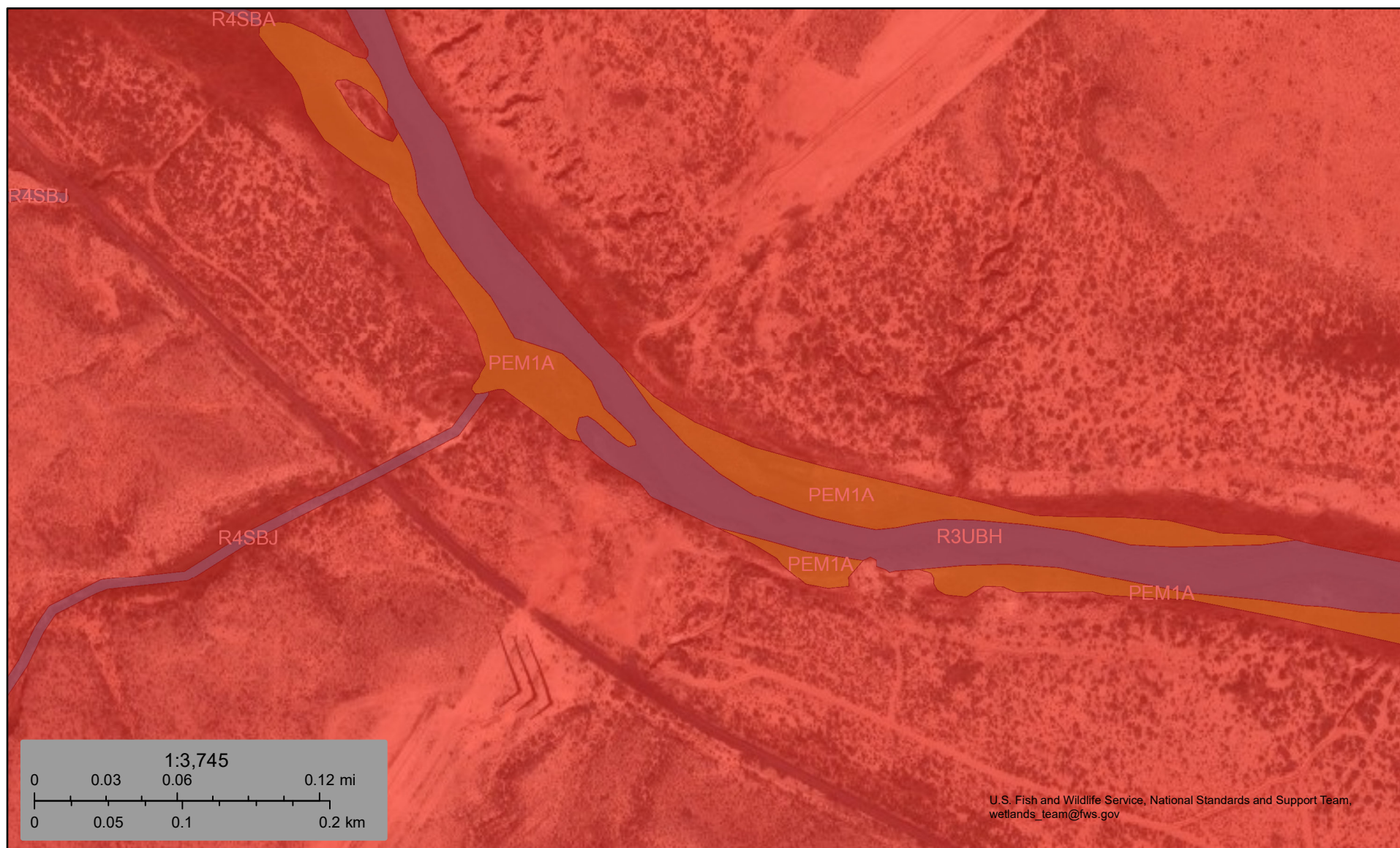
Riverine (R2, R3, R4)



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, New Mexico Environment



Wetlands



U.S. Fish and Wildlife Service, National Standards and Support Team,
wetlands_team@fws.gov

May 19, 2026

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

*Remediation Work Plan
Golden Graham to Shocker API: 30-015-45324
June 08, 2026*

APPENDIX E – LABORATORY ANALYSIS DOCUMENTATION

Table 1
Site Assessment
EOG Resources
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	
			In-Situ	Removed	GRO	DRO	ORO	Total							
RRALs			100 mg/kg				10 mg/kg				50 mg/kg				600 mg/kg
AH-1	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,190	
	"	1-1.5	X	-	<15.0	16.3	<15.0	16.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,950	
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	896	
AH-2	7/22/2019	0-1	X	-	<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4,940	
	"	1-1.5	X	-	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	7,020	
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0	
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112	
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	832	
AH-3	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,510	
	"	1-1.5	X	-	<15.0	24.3	<15.0	24.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	5,620	
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	
AH-4	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	5,100	
	"	1-1.5	X	-	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,820	
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480	
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528	

Table 1
Site Assessment
EOG Resources
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
AH-5 (Bank)	7/22/2019	0-1	X	-	<14.9	<14.9	<14.9	<14.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,620
	"	1-1.5	X	-	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,620
	9/18/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	450
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	7,550
	"	2-2.5	X	-	-	-	-	-	-	-	-	-	-	1,670
	"	3-3.5	X	-	-	-	-	-	-	-	-	-	-	1,120
	"	4-4.5	X	-	-	-	-	-	-	-	-	-	-	2,840
	"	4-4.5	X	-	-	-	-	-	-	-	-	-	-	258
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
AH-6 (Bank)	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	9,040
	"	1-1.5	X	-	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	6,430
	9/18/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	6,200
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	2,210
	"	2-2.5	X	-	-	-	-	-	-	-	-	-	-	5,010
	"	3-3.5	X	-	-	-	-	-	-	-	-	-	-	597
	"	4-4.5	X	-	-	-	-	-	-	-	-	-	-	4,650
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,170
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,280
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,200
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
AH-7 (Bank)	7/22/2019	0-1	X	-	<15.0	147	27.5	175	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	167
	"	1-1.5	X	-	<15.0	37.1	<15.0	37.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	608
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,680
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,380
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,460

Table 1
Site Assessment
EOG Resources
Golden Graham to Shocker
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Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
AH-8 (Bank)	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	460
	"	1-1.5	X	-	<14.9	<14.9	<14.9	<14.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	410
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	688
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,410
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,150
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,260
AH-9 (Bank)	7/22/2019	0-1	X	-	<15.0	16.2	<15.0	16.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,980
	"	1-1.5	X	-	<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,010
	9/18/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	4,300
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	2,140
	"	2-2.5	X	-	-	-	-	-	-	-	-	-	-	1,120
	"	3-3.5	X	-	-	-	-	-	-	-	-	-	-	3,920
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,100
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
AH-10 (Bank)	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	14,700
	"	1-1.5	X	-	<14.9	<14.9	<14.9	<14.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	3,690
	9/18/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	1,000
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	3,000
	"	2-2.5	X	-	-	-	-	-	-	-	-	-	-	3,670
	"	3-3.5	X	-	-	-	-	-	-	-	-	-	-	3,800
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,680
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,460
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,490

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			In-Situ	Removed	GRO	DRO	ORO	Total						
AH-11 (Bank)	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	5,290
	9/19/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	4,950
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	5,680
	"	2-2.5	X	-	-	-	-	-	-	-	-	-	-	2,310
	"	3-3.5	X	-	-	-	-	-	-	-	-	-	-	2,430
	"	4-4.5	X	-	-	-	-	-	-	-	-	-	-	1,300
	5/12/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
AH-12 (Bank)	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,720
	"	1-1.5	X	-	<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	3,100
	9/19/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	4,400
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	3,900
	"	2-2.5	X	-	-	-	-	-	-	-	-	-	-	2,700
	"	3-3.5	X	-	-	-	-	-	-	-	-	-	-	3,170
	"	4-4.5	X	-	-	-	-	-	-	-	-	-	-	1,630
	5/12/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0

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Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
AH-13 (Bank)	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	4,250
	"	1-1.5	X	-	<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,930
	9/19/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	2,630
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	2,550
	"	2-2.5	X	-	-	-	-	-	-	-	-	-	-	1,970
	"	3-3.5	X	-	-	-	-	-	-	-	-	-	-	1,560
	"	4-4.5	X	-	-	-	-	-	-	-	-	-	-	1,120
	"	4-4.5	X	-	-	-	-	-	-	-	-	-	-	817
	5/12/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
AH-14	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,450
	"	1-1.5	X	-	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	2,160
	5/12/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0

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Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
AH-15	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	15.5
	"	1-1.5	X	-	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	26.7
	5/12/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
AH-16	7/22/2019	0-1	X	-	<14.9	<14.9	<14.9	<14.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	18.6
	"	1-1.5	X	-	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	153
	5/12/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
AH-17	9/18/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	894
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	2,660
	"	2-2.5	X	-	-	-	-	-	-	-	-	-	-	1,990
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,520
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,490
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
AH-18	9/18/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	1,470
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	521
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,560
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,020
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	864
AH-19	9/18/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	2,350
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	239
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,300
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,090
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	944

Table 1
Site Assessment
EOG Resources
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
Horizontal 1	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	133
	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Horizontal 2	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	21,600
	5/12/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Horizontal 3	7/22/2019	0-1	X	-	<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	3,060
	5/12/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Background #1	9/17/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	3,330
Background #2	9/17/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	770
	"	1-1.5	X	-	-	-	-	-	-	-	-	-	-	920
Background #3	9/17/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	1,780
Background #4	9/17/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	1,010
Background #5	9/17/2019	0-1	X	-	-	-	-	-	-	-	-	-	-	1,620
BG-1	5/13/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
BG-2	5/12/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
Upstream	9/17/2019	Pecos River Surface Flow			-	-	-	-	-	-	-	-	-	1,500
Release Area	9/17/2019	Pecos River Surface Flow			-	-	-	-	-	-	-	-	-	1,780
Downstream	9/17/2019	Pecos River Surface Flow			-	-	-	-	-	-	-	-	-	1,610

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Division) *Guidelines for Remediation of Leaks, Spills, and Releases*.

All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Exceedance

Analytical Report 631780

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Golden Graham Shocker

212C-MD-01699

05-AUG-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNi02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05-AUG-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **631780**

Golden Graham Shocker

Project Address: Eddy County, New Mexico

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 631780. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 631780 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 631780****Tetra Tech- Midland, Midland, TX**

Golden Graham Shocker

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Horizontal-1 (0-1')	S	07-22-19 00:00		631780-001
Horizontal-2 (0-1')	S	07-22-19 00:00		631780-002
Horizontal-3 (0-1')	S	07-22-19 00:00		631780-003



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Golden Graham Shocker

Project ID: 212C-MD-01699
Work Order Number(s): 631780

Report Date: 05-AUG-19
Date Received: 07/23/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3096823 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3097388 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected.

Samples affected are: 631780-001,631780-003,631780-002.



Certificate of Analysis Summary 631780

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker



Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631780-001	631780-002	631780-003			
	<i>Field Id:</i>	Horizontal-1 (0-1')	Horizontal-2 (0-1')	Horizontal-3 (0-1')			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00			
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 10:45	Jul-26-19 10:45	Jul-26-19 10:45			
	<i>Analyzed:</i>	Jul-27-19 11:24	Jul-27-19 11:44	Jul-27-19 12:04			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00397 0.00397			
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 09:45	Jul-24-19 09:45	Jul-24-19 09:45			
	<i>Analyzed:</i>	Jul-24-19 10:22	Jul-24-19 12:15	Jul-24-19 12:34			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		133 4.96	21600 249	3060 24.8			
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00			
	<i>Analyzed:</i>	Aug-02-19 11:28	Aug-02-19 12:37	Aug-02-19 13:00			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.0%

Jessica Kramer

Jessica Kramer
Project Assistant



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3096823

Sample: 631780-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 11:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

Lab Batch #: 3096823

Sample: 631780-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 11:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

Lab Batch #: 3096823

Sample: 631780-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 12:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	70-130	
4-Bromofluorobenzene	0.0257	0.0300	86	70-130	

Lab Batch #: 3097388

Sample: 631780-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 11:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	99.9	88	70-135	
o-Terphenyl	32.1	50.0	64	70-135	**

Lab Batch #: 3097388

Sample: 631780-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 12:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.7	99.8	87	70-135	
o-Terphenyl	33.4	49.9	67	70-135	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 13:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	99.7	91	70-135	
o-Terphenyl	31.5	49.9	63	70-135	**

Lab Batch #: 3096823

Sample: 7682920-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/19 06:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

Lab Batch #: 3097388

Sample: 7683045-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.1	100	93	70-135	
o-Terphenyl	35.4	50.0	71	70-135	

Lab Batch #: 3096823

Sample: 7682920-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/19 04:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	70-130	
4-Bromofluorobenzene	0.0326	0.0300	109	70-130	

Lab Batch #: 3097388

Sample: 7683045-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.6	100	87	70-135	
o-Terphenyl	38.7	50.0	77	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3096823

Sample: 7682920-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/19 04:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	70-130	
4-Bromofluorobenzene	0.0337	0.0300	112	70-130	

Lab Batch #: 3097388

Sample: 7683045-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 11:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	100	90	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

Lab Batch #: 3096823

Sample: 631753-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 05:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	70-130	
4-Bromofluorobenzene	0.0361	0.0300	120	70-130	

Lab Batch #: 3097388

Sample: 631780-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 11:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.6	99.6	92	70-135	
o-Terphenyl	38.5	49.8	77	70-135	

Lab Batch #: 3096823

Sample: 631753-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 05:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	70-130	
4-Bromofluorobenzene	0.0363	0.0300	121	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 12:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	99.9	91	70-135	
o-Terphenyl	39.5	50.0	79	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631780

Project ID: 212C-MD-01699

Analyst: FOV

Date Prepared: 07/26/2019

Date Analyzed: 07/27/2019

Lab Batch ID: 3096823

Sample: 7682920-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00200	0.100	0.101	101	0.100	0.104	104	3	70-130	35	
Toluene	<0.00200	0.100	0.0979	98	0.100	0.101	101	3	70-130	35	
Ethylbenzene	<0.00200	0.100	0.112	112	0.100	0.116	116	4	70-130	35	
m,p-Xylenes	<0.00400	0.200	0.229	115	0.200	0.237	119	3	70-130	35	
o-Xylene	<0.00200	0.100	0.110	110	0.100	0.114	114	4	70-130	35	

Analyst: CHE

Date Prepared: 07/24/2019

Date Analyzed: 07/24/2019

Lab Batch ID: 3096409

Sample: 7682652-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	246	98	250	246	98	0	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Version: 1.0%



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631780

Project ID: 212C-MD-01699

Analyst: ARM

Date Prepared: 07/26/2019

Date Analyzed: 08/02/2019

Lab Batch ID: 3097388

Sample: 7683045-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	988	99	1000	1000	100	1	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	979	98	1000	1060	106	8	70-135	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Version: 1.0%



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631780

Project ID: 212C-MD-01699

Lab Batch ID: 3096823

QC- Sample ID: 631753-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/27/2019

Date Prepared: 07/26/2019

Analyst: FOV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00201	0.100	0.0869	87	0.0994	0.0884	89	2	70-130	35	
Toluene	<0.00201	0.100	0.0774	77	0.0994	0.0755	76	2	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0879	88	0.0994	0.0899	90	2	70-130	35	
m,p-Xylenes	<0.00402	0.201	0.174	87	0.199	0.178	89	2	70-130	35	
o-Xylene	<0.00201	0.100	0.0915	92	0.0994	0.0957	96	4	70-130	35	

Lab Batch ID: 3096409

QC- Sample ID: 631660-044 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	166	253	418	100	253	419	100	0	90-110	20	

Lab Batch ID: 3096409

QC- Sample ID: 631780-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	133	248	374	97	248	376	98	1	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order # : 631780

Project ID: 212C-MD-01699

Lab Batch ID: 3097388

QC- Sample ID: 631780-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/02/2019

Date Prepared: 07/26/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	12.2	996	1080	107	999	1080	107	0	70-135	20	
Diesel Range Organics (DRO)	13.4	996	1110	110	999	1120	111	1	70-135	20	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference RPD = $200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Page 1 of 1

[illegible]



Client: Tetra Tech- Midland

Date/ Time Received: 07/23/2019 11:01:00 AM

Work Order #: 631780

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	-6.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 07/23/2019

Checklist reviewed by:

Jessica Kramer

Date: 07/23/2019

Analytical Report 631781

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Golden Graham Shocker

212C-MD-01699

05-AUG-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429), North Carolina (483)



05-AUG-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **631781**

Golden Graham Shocker

Project Address: Eddy County, New Mexico

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 631781. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 631781 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 631781

Tetra Tech- Midland, Midland, TX

Golden Graham Shocker

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 (0-1')	S	07-22-19 00:00		631781-001
AH-1 (1'-1.5)	S	07-22-19 00:00		631781-002
AH-2 (0-1')	S	07-22-19 00:00		631781-007
AH-2 (1'-1.5)	S	07-22-19 00:00		631781-008
AH-3 (0-1')	S	07-22-19 00:00		631781-013
AH-3 (1'-1.5)	S	07-22-19 00:00		631781-014
AH-4 (0-1')	S	07-22-19 00:00		631781-015
AH-4 (1'-1.5)	S	07-22-19 00:00		631781-016
AH-5 (0-1')	S	07-22-19 00:00		631781-019
AH-5 (1'-1.5)	S	07-22-19 00:00		631781-020
AH-6 (0-1')	S	07-22-19 00:00		631781-023
AH-6 (1'-1.5)	S	07-22-19 00:00		631781-024
AH-7 (0-1')	S	07-22-19 00:00		631781-027
AH-7 (1'-1.5)	S	07-22-19 00:00		631781-028
AH-8 (0-1')	S	07-22-19 00:00		631781-031
AH-8 (1'-1.5)	S	07-22-19 00:00		631781-032
AH-9 (0-1')	S	07-22-19 00:00		631781-034
AH-9 (1'-1.5)	S	07-22-19 00:00		631781-035
AH-10 (0-1')	S	07-22-19 00:00		631781-038
AH-10 (1'-1.5)	S	07-22-19 00:00		631781-039
AH-11 (0-1')	S	07-22-19 00:00		631781-040
AH-12 (0-1')	S	07-22-19 00:00		631781-043
AH-12 (1'-1.5)	S	07-22-19 00:00		631781-044
AH-13 (0-1')	S	07-22-19 00:00		631781-046
AH-13 (1'-1.5)	S	07-22-19 00:00		631781-047
AH-14 (0-1')	S	07-22-19 00:00		631781-051
AH-14 (1'-1.5)	S	07-22-19 00:00		631781-052
AH-15 (0-1')	S	07-22-19 00:00		631781-055
AH-15 (1'-1.5)	S	07-22-19 00:00		631781-056
AH-16 (0-1')	S	07-22-19 00:00		631781-059
AH-16 (1'-1.5)	S	07-22-19 00:00		631781-060
AH-1 (2'-2.5')	S	07-22-19 00:00		Not Analyzed
AH-1 (3'-3.5)	S	07-22-19 00:00		Not Analyzed
AH-1 (4'-4.5)	S	07-22-19 00:00		Not Analyzed
AH-1 (5'-5.5')	S	07-22-19 00:00		Not Analyzed
AH-2 (2'-2.5')	S	07-22-19 00:00		Not Analyzed
AH-2 (3'-3.5)	S	07-22-19 00:00		Not Analyzed
AH-2 (4'-4.5)	S	07-22-19 00:00		Not Analyzed
AH-2 (5'-5.5')	S	07-22-19 00:00		Not Analyzed
AH-4 (2'-2.5')	S	07-22-19 00:00		Not Analyzed
AH-4 (3'-3.5)	S	07-22-19 00:00		Not Analyzed
AH-5 (2'-2.5')	S	07-22-19 00:00		Not Analyzed
AH-5 (3'-3.5)	S	07-22-19 00:00		Not Analyzed



Sample Cross Reference 631781

Tetra Tech- Midland, Midland, TX

Golden Graham Shocker

AH-6 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-6 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-7 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-7 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-8 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-9 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-9 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-11 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-11 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-12 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-13 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-13 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-13 (4'-4.5)	S	07-22-19 00:00	Not Analyzed
AH-14 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-14 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-15 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-15 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-16 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-16 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-16 (4'-4.5')	S	07-22-19 00:00	Not Analyzed
AH-16 (5'-5.5')	S	07-22-19 00:00	Not Analyzed

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Golden Graham Shocker**

Project ID: 212C-MD-01699
Work Order Number(s): 631781

Report Date: 05-AUG-19
Date Received: 07/23/2019

Sample receipt non conformance and comments:

None

Sample receipt non conformance and comments per sample:

None

Analytical non conformance and comments:

Batch: LBA-3096939 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3096940 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 631781-040 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 631781-040, -043, -044, -046, -047, -051, -052, -055, -056, -059, -060.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631781-001	631781-002	631781-007	631781-008	631781-013	631781-014
	<i>Field Id:</i>	AH-1 (0-1')	AH-1 (1'-1.5)	AH-2 (0-1')	AH-2 (1'-1.5)	AH-3 (0-1')	AH-3 (1'-1.5)
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30
	<i>Analyzed:</i>	Jul-28-19 23:04	Jul-28-19 23:24	Jul-28-19 23:44	Jul-29-19 00:04	Jul-29-19 00:25	Jul-29-19 00:45
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00402 0.00402	<0.00399 0.00399	<0.00402 0.00402	<0.00399 0.00399	<0.00400 0.00400
o-Xylene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 09:45	Jul-24-19 09:45	Jul-24-19 09:45	Jul-24-19 09:45	Jul-24-19 09:45	Jul-24-19 09:45
	<i>Analyzed:</i>	Jul-24-19 12:41	Jul-24-19 12:47	Jul-24-19 12:53	Jul-24-19 13:00	Jul-24-19 13:06	Jul-24-19 13:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3190 25.2	3950 50.1	4940 49.6	7020 49.9	2510 24.8	5620 50.3
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00
	<i>Analyzed:</i>	Aug-02-19 13:24	Aug-02-19 13:47	Aug-02-19 14:10	Aug-02-19 14:33	Aug-02-19 14:56	Aug-02-19 15:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	16.3 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	24.3 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	16.3 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	24.3 15.0

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	631781-015	631781-016	631781-019	631781-020	631781-023	631781-024
	Field Id:	AH-4 (0-1')	AH-4 (1'-1.5)	AH-5 (0-1')	AH-5 (1'-1.5)	AH-6 (0-1')	AH-6 (1'-1.5)
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00
BTEX by EPA 8021B	Extracted:	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30
	Analyzed:	Jul-29-19 01:05	Jul-29-19 01:25	Jul-29-19 01:45	Jul-29-19 02:05	Jul-29-19 10:39	Jul-29-19 10:59
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00401 0.00401	<0.00400 0.00400	<0.00404 0.00404	<0.00401 0.00401	<0.00401 0.00401	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10
	Analyzed:	Jul-24-19 11:40	Jul-24-19 12:01	Jul-24-19 12:07	Jul-24-19 12:23	Jul-24-19 12:28	Jul-24-19 10:46
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5100 49.5	2820 25.2	1620 25.0	2620 24.9	9040 50.1	6430 50.5
TPH By SW8015 Mod	Extracted:	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00
	Analyzed:	Aug-02-19 15:41	Aug-02-19 16:27	Aug-02-19 16:50	Aug-02-19 17:14	Aug-02-19 17:36	Aug-02-19 18:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	631781-027	631781-028	631781-031	631781-032	631781-034	631781-035
	Field Id:	AH-7 (0-1')	AH-7 (1'-1.5)	AH-8 (0-1')	AH-8 (1'-1.5)	AH-9 (0-1')	AH-9 (1'-1.5)
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00
BTEX by EPA 8021B	Extracted:	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 15:30
	Analyzed:	Jul-29-19 11:19	Jul-29-19 11:39	Jul-29-19 12:00	Jul-29-19 12:20	Jul-29-19 12:40	Jul-29-19 13:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		<0.00397 0.00397	<0.00401 0.00401	<0.00398 0.00398	<0.00397 0.00397	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10
	Analyzed:	Jul-24-19 10:52	Jul-24-19 10:57	Jul-24-19 11:02	Jul-24-19 11:19	Jul-24-19 11:24	Jul-24-19 11:29
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		167 5.05	608 49.7	460 25.0	410 5.00	3980 50.0	2010 25.1
TPH By SW8015 Mod	Extracted:	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00	Jul-31-19 16:00
	Analyzed:	Aug-02-19 18:23	Aug-02-19 18:46	Aug-02-19 19:09	Aug-02-19 19:32	Aug-02-19 19:55	Aug-01-19 04:44
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		147 15.0	37.1 15.0	<15.0 15.0	<14.9 14.9	16.2 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		27.5 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0
Total TPH		175 15.0	37.1 15.0	<15.0 15.0	<14.9 14.9	16.2 15.0	<15.0 15.0

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631781-038	631781-039	631781-040	631781-043	631781-044	631781-046
	<i>Field Id:</i>	AH-10 (0-1')	AH-10 (1'-1.5)	AH-11 (0-1')	AH-12 (0-1')	AH-12 (1'-1.5)	AH-13 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 14:30	Jul-26-19 14:30	Jul-26-19 14:30	Jul-26-19 14:30
	<i>Analyzed:</i>	Jul-29-19 13:20	Jul-29-19 13:40	Jul-29-19 17:19	Jul-29-19 17:39	Jul-29-19 17:59	Jul-29-19 18:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
Toluene		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
Ethylbenzene		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
m,p-Xylenes		<0.00402 0.00402	<0.00404 0.00404	<0.00398 0.00398	<0.00402 0.00402	<0.00397 0.00397	<0.00403 0.00403
o-Xylene		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
Total Xylenes		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
Total BTEX		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 15:25
	<i>Analyzed:</i>	Jul-24-19 11:35	Jul-24-19 12:33	Jul-24-19 12:39	Jul-24-19 12:49	Jul-24-19 12:55	Jul-24-19 18:22
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		14700 99.2	3690 24.8	5290 49.5	3720 25.3	3100 25.0	4250 49.7
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 15:00	Jul-26-19 15:00	Jul-26-19 15:00	Jul-26-19 15:00	Jul-26-19 15:00	Jul-26-19 15:00
	<i>Analyzed:</i>	Aug-02-19 21:50	Aug-02-19 22:59	Aug-02-19 23:22	Aug-02-19 23:45	Aug-03-19 00:08	Aug-03-19 00:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631781-047	631781-051	631781-052	631781-055	631781-056	631781-059
	<i>Field Id:</i>	AH-13 (1'-1.5')	AH-14 (0-1')	AH-14 (1'-1.5')	AH-15 (0-1')	AH-15 (1'-1.5')	AH-16 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 14:30	Jul-26-19 14:30	Jul-26-19 14:30	Jul-26-19 14:30	Jul-26-19 14:30	Jul-26-19 14:30
	<i>Analyzed:</i>	Jul-29-19 18:39	Jul-29-19 18:59	Jul-29-19 19:19	Jul-29-19 19:39	Jul-29-19 20:00	Jul-29-19 20:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		<0.00399 0.00399	<0.00403 0.00403	<0.00402 0.00402	<0.00400 0.00400	<0.00401 0.00401	<0.00396 0.00396
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 15:25	Jul-24-19 15:25	Jul-24-19 15:25	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 15:25
	<i>Analyzed:</i>	Jul-24-19 18:28	Jul-24-19 18:33	Jul-24-19 18:38	Jul-24-19 10:30	Jul-24-19 11:45	Jul-24-19 18:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2930 50.3	1450 5.04	2160 25.1	15.5 5.00	26.7 4.97	18.6 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 15:00	Jul-26-19 15:00	Jul-26-19 15:00	Jul-26-19 15:00	Jul-26-19 15:00	Jul-26-19 15:00
	<i>Analyzed:</i>	Aug-03-19 00:54	Aug-03-19 01:17	Aug-03-19 01:40	Aug-03-19 02:03	Aug-03-19 02:49	Aug-03-19 03:11
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9
Diesel Range Organics (DRO)		<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9
Motor Oil Range Hydrocarbons (MRO)		<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9
Total TPH		<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 631781-060 Field Id: AH-16 (1'-1.5) Depth: Matrix: SOIL Sampled: Jul-22-19 00:00					
BTEX by EPA 8021B	Extracted: Jul-26-19 14:30 Analyzed: Jul-29-19 21:38 Units/RL: mg/kg RL					
Benzene	<0.00201 0.00201					
Toluene	<0.00201 0.00201					
Ethylbenzene	<0.00201 0.00201					
m,p-Xylenes	<0.00402 0.00402					
o-Xylene	<0.00201 0.00201					
Total Xylenes	<0.00201 0.00201					
Total BTEX	<0.00201 0.00201					
Inorganic Anions by EPA 300/300.1	Extracted: Jul-24-19 15:25 Analyzed: Jul-24-19 18:49 Units/RL: mg/kg RL					
Chloride	153 4.99					
TPH By SW8015 Mod	Extracted: Jul-26-19 15:00 Analyzed: Aug-03-19 03:34 Units/RL: mg/kg RL					
Gasoline Range Hydrocarbons (GRO)	<15.0 15.0					
Diesel Range Organics (DRO)	<15.0 15.0					
Motor Oil Range Hydrocarbons (MRO)	<15.0 15.0					
Total TPH	<15.0 15.0					

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Jessica Kramer
Project Assistant



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096939

Sample: 631781-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 23:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0330	0.0300	110	70-130	

Lab Batch #: 3096939

Sample: 631781-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 23:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0330	0.0300	110	70-130	

Lab Batch #: 3096939

Sample: 631781-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 23:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	70-130	
4-Bromofluorobenzene	0.0339	0.0300	113	70-130	

Lab Batch #: 3096939

Sample: 631781-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 00:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	70-130	
4-Bromofluorobenzene	0.0317	0.0300	106	70-130	

Lab Batch #: 3096939

Sample: 631781-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 00:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	70-130	
4-Bromofluorobenzene	0.0340	0.0300	113	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096939

Sample: 631781-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 00:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0329	0.0300	110	70-130	

Lab Batch #: 3096939

Sample: 631781-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 01:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	70-130	
4-Bromofluorobenzene	0.0340	0.0300	113	70-130	

Lab Batch #: 3096939

Sample: 631781-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 01:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0348	0.0300	116	70-130	

Lab Batch #: 3096939

Sample: 631781-019 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 01:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0348	0.0300	116	70-130	

Lab Batch #: 3096939

Sample: 631781-020 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 02:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0335	0.0300	112	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096939

Sample: 631781-023 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 10:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0331	0.0300	110	70-130	

Lab Batch #: 3096939

Sample: 631781-024 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 10:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0336	0.0300	112	70-130	

Lab Batch #: 3096939

Sample: 631781-027 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 11:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0324	0.0300	108	70-130	

Lab Batch #: 3096939

Sample: 631781-028 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 11:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0317	0.0300	106	70-130	

Lab Batch #: 3096939

Sample: 631781-031 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 12:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0321	0.0300	107	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096939

Sample: 631781-032 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 12:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0320	0.0300	107	70-130	

Lab Batch #: 3096939

Sample: 631781-034 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 12:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0316	0.0300	105	70-130	

Lab Batch #: 3096939

Sample: 631781-035 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 13:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	70-130	
4-Bromofluorobenzene	0.0336	0.0300	112	70-130	

Lab Batch #: 3096939

Sample: 631781-038 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 13:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	70-130	
4-Bromofluorobenzene	0.0314	0.0300	105	70-130	

Lab Batch #: 3096939

Sample: 631781-039 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 13:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0313	0.0300	104	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096940

Sample: 631781-040 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 17:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	70-130	
4-Bromofluorobenzene	0.0312	0.0300	104	70-130	

Lab Batch #: 3096940

Sample: 631781-043 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 17:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

Lab Batch #: 3096940

Sample: 631781-044 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 17:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	70-130	
4-Bromofluorobenzene	0.0322	0.0300	107	70-130	

Lab Batch #: 3096940

Sample: 631781-046 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 18:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	70-130	
4-Bromofluorobenzene	0.0309	0.0300	103	70-130	

Lab Batch #: 3096940

Sample: 631781-047 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 18:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0347	0.0300	116	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096940

Sample: 631781-051 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 18:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0316	0.0300	105	70-130	

Lab Batch #: 3096940

Sample: 631781-052 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 19:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	70-130	
4-Bromofluorobenzene	0.0337	0.0300	112	70-130	

Lab Batch #: 3096940

Sample: 631781-055 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 19:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0324	0.0300	108	70-130	

Lab Batch #: 3096940

Sample: 631781-056 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 20:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0332	0.0300	111	70-130	

Lab Batch #: 3096940

Sample: 631781-059 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 20:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0316	0.0300	105	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096940

Sample: 631781-060 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 21:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0321	0.0300	107	70-130	

Lab Batch #: 3097150

Sample: 631781-035 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/01/19 04:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	111	99.9	111	70-135	
o-Terphenyl	48.7	50.0	97	70-135	

Lab Batch #: 3097388

Sample: 631781-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 13:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	114	99.9	114	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 3097388

Sample: 631781-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 13:47

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	96.7	100	97	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

Lab Batch #: 3097388

Sample: 631781-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 14:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	95.0	99.6	95	70-135	
o-Terphenyl	41.2	49.8	83	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631781-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 14:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	99.9	94	70-135	
o-Terphenyl	37.5	50.0	75	70-135	

Lab Batch #: 3097388

Sample: 631781-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 14:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	99.7	95	70-135	
o-Terphenyl	38.6	49.9	77	70-135	

Lab Batch #: 3097388

Sample: 631781-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 15:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.9	99.8	98	70-135	
o-Terphenyl	46.7	49.9	94	70-135	

Lab Batch #: 3097388

Sample: 631781-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 15:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.2	100	94	70-135	
o-Terphenyl	40.5	50.0	81	70-135	

Lab Batch #: 3097388

Sample: 631781-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 16:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	99.7	94	70-135	
o-Terphenyl	46.6	49.9	93	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631781-019 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 16:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	99.6	95	70-135	
o-Terphenyl	41.7	49.8	84	70-135	

Lab Batch #: 3097388

Sample: 631781-020 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 17:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.1	99.9	95	70-135	
o-Terphenyl	42.0	50.0	84	70-135	

Lab Batch #: 3097388

Sample: 631781-023 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 17:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.3	100	95	70-135	
o-Terphenyl	39.8	50.0	80	70-135	

Lab Batch #: 3097388

Sample: 631781-024 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 18:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.7	99.8	97	70-135	
o-Terphenyl	47.6	49.9	95	70-135	

Lab Batch #: 3097388

Sample: 631781-027 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 18:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.3	99.7	98	70-135	
o-Terphenyl	44.9	49.9	90	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631781-028 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 18:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	99.9	95	70-135	
o-Terphenyl	38.7	50.0	77	70-135	

Lab Batch #: 3097388

Sample: 631781-031 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 19:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.6	99.8	91	70-135	
o-Terphenyl	41.4	49.9	83	70-135	

Lab Batch #: 3097388

Sample: 631781-032 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 19:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.4	99.6	92	70-135	
o-Terphenyl	37.4	49.8	75	70-135	

Lab Batch #: 3097388

Sample: 631781-034 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 19:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.1	100	87	70-135	
o-Terphenyl	45.7	50.0	91	70-135	

Lab Batch #: 3097389

Sample: 631781-038 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 21:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.1	99.9	97	70-135	
o-Terphenyl	38.8	50.0	78	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097389

Sample: 631781-039 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 22:59

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	96.3	99.6	97	70-135	
o-Terphenyl	40.5	49.8	81	70-135	

Lab Batch #: 3097389

Sample: 631781-040 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 23:22

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	48.9	50.0	98	70-135	

Lab Batch #: 3097389

Sample: 631781-043 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 23:45

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	113	99.9	113	70-135	
o-Terphenyl	43.5	50.0	87	70-135	

Lab Batch #: 3097389

Sample: 631781-044 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 00:08

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	97.2	99.7	97	70-135	
o-Terphenyl	42.0	49.9	84	70-135	

Lab Batch #: 3097389

Sample: 631781-046 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 00:31

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	106	99.9	106	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097389

Sample: 631781-047 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 00:54

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	101	99.6	101	70-135	
o-Terphenyl	47.1	49.8	95	70-135	

Lab Batch #: 3097389

Sample: 631781-051 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 01:17

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	97.2	100	97	70-135	
o-Terphenyl	42.8	50.0	86	70-135	

Lab Batch #: 3097389

Sample: 631781-052 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 01:40

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	119	99.9	119	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 3097389

Sample: 631781-055 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 02:03

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 3097389

Sample: 631781-056 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 02:49

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	104	99.7	104	70-135	
o-Terphenyl	45.8	49.9	92	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097389

Sample: 631781-059 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 03:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.6	99.6	98	70-135	
o-Terphenyl	44.9	49.8	90	70-135	

Lab Batch #: 3097389

Sample: 631781-060 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 03:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.8	104	70-135	
o-Terphenyl	52.6	49.9	105	70-135	

Lab Batch #: 3096939

Sample: 7682922-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/28/19 22:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

Lab Batch #: 3096940

Sample: 7682923-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/29/19 16:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	70-130	
4-Bromofluorobenzene	0.0324	0.0300	108	70-130	

Lab Batch #: 3097150

Sample: 7683060-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/31/19 19:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	50.8	50.0	102	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 7683045-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:19

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	93.1	100	93	70-135	
o-Terphenyl	35.4	50.0	71	70-135	

Lab Batch #: 3097388

Sample: 7683058-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 20:41

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	99.2	100	99	70-135	
o-Terphenyl	40.6	50.0	81	70-135	

Lab Batch #: 3096939

Sample: 7682922-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/28/19 21:04

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0300	0.0300	100	70-130	
4-Bromofluorobenzene	0.0301	0.0300	100	70-130	

Lab Batch #: 3096940

Sample: 7682923-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/29/19 14:59

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0307	0.0300	102	70-130	
4-Bromofluorobenzene	0.0297	0.0300	99	70-130	

Lab Batch #: 3097150

Sample: 7683060-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/31/19 19:36

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	57.5	50.0	115	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 7683045-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.6	100	87	70-135	
o-Terphenyl	38.7	50.0	77	70-135	

Lab Batch #: 3097388

Sample: 7683058-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 21:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.0	100	98	70-135	
o-Terphenyl	49.2	50.0	98	70-135	

Lab Batch #: 3096939

Sample: 7682922-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/28/19 21:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	70-130	
4-Bromofluorobenzene	0.0303	0.0300	101	70-130	

Lab Batch #: 3096940

Sample: 7682923-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/29/19 15:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	70-130	
4-Bromofluorobenzene	0.0327	0.0300	109	70-130	

Lab Batch #: 3097150

Sample: 7683060-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/31/19 19:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	57.1	50.0	114	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 7683045-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 11:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	100	90	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

Lab Batch #: 3097388

Sample: 7683058-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 21:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.7	100	100	70-135	
o-Terphenyl	52.0	50.0	104	70-135	

Lab Batch #: 3096939

Sample: 631781-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 21:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	70-130	
4-Bromofluorobenzene	0.0332	0.0300	111	70-130	

Lab Batch #: 3096940

Sample: 631781-040 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 15:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0322	0.0300	107	70-130	

Lab Batch #: 3097150

Sample: 632385-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/31/19 20:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	156	199	78	70-135	
o-Terphenyl	73.4	99.7	74	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 11:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.6	99.6	92	70-135	
o-Terphenyl	38.5	49.8	77	70-135	

Lab Batch #: 3097388

Sample: 631781-038 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 22:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.2	99.7	97	70-135	
o-Terphenyl	47.7	49.9	96	70-135	

Lab Batch #: 3096939

Sample: 631781-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 22:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	70-130	
4-Bromofluorobenzene	0.0318	0.0300	106	70-130	

Lab Batch #: 3096940

Sample: 631781-040 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 15:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	70-130	
4-Bromofluorobenzene	0.0304	0.0300	101	70-130	

Lab Batch #: 3097150

Sample: 632385-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/31/19 21:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	155	199	78	70-135	
o-Terphenyl	75.6	99.7	76	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 12:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	99.9	91	70-135	
o-Terphenyl	39.5	50.0	79	70-135	

Lab Batch #: 3097389

Sample: 631781-038 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 22:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.3	99.8	98	70-135	
o-Terphenyl	51.3	49.9	103	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631781

Project ID: 212C-MD-01699

Analyst: FOV

Date Prepared: 07/26/2019

Date Analyzed: 07/28/2019

Lab Batch ID: 3096939

Sample: 7682922-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000385	0.100	0.103	103	0.100	0.102	102	1	70-130	35	
Toluene	<0.000456	0.100	0.0949	95	0.100	0.0930	93	2	70-130	35	
Ethylbenzene	<0.000565	0.100	0.0950	95	0.100	0.0924	92	3	70-130	35	
m,p-Xylenes	<0.00101	0.200	0.192	96	0.200	0.186	93	3	70-130	35	
o-Xylene	0.000350	0.100	0.0982	98	0.100	0.0957	96	3	70-130	35	

Analyst: FOV

Date Prepared: 07/26/2019

Date Analyzed: 07/29/2019

Lab Batch ID: 3096940

Sample: 7682923-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00200	0.100	0.0928	93	0.100	0.104	104	11	70-130	35	
Toluene	<0.000456	0.100	0.0824	82	0.100	0.0934	93	13	70-130	35	
Ethylbenzene	0.000720	0.100	0.0807	81	0.100	0.0918	92	13	70-130	35	
m,p-Xylenes	<0.00101	0.200	0.161	81	0.200	0.183	92	13	70-130	35	
o-Xylene	0.000480	0.100	0.0849	85	0.100	0.0977	98	14	70-130	35	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631781

Project ID: 212C-MD-01699

Analyst: CHE

Date Prepared: 07/24/2019

Date Analyzed: 07/24/2019

Lab Batch ID: 3096409

Sample: 7682652-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	246	98	250	246	98	0	90-110	20	

Analyst: CHE

Date Prepared: 07/24/2019

Date Analyzed: 07/24/2019

Lab Batch ID: 3096405

Sample: 7682654-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.858	250	250	100	250	248	99	1	90-110	20	

Analyst: SPC

Date Prepared: 07/24/2019

Date Analyzed: 07/24/2019

Lab Batch ID: 3096407

Sample: 7682713-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.858	250	263	105	250	259	104	2	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631781

Project ID: 212C-MD-01699

Analyst: ARM

Date Prepared: 07/26/2019

Date Analyzed: 08/02/2019

Lab Batch ID: 3097388

Sample: 7683045-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	988	99	1000	1000	100	1	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	979	98	1000	1060	106	8	70-135	20	

Analyst: ARM

Date Prepared: 07/26/2019

Date Analyzed: 08/02/2019

Lab Batch ID: 3097389

Sample: 7683058-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1100	110	1000	1110	111	1	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	1130	113	1000	1160	116	3	70-135	20	

Analyst: ARM

Date Prepared: 07/31/2019

Date Analyzed: 07/31/2019

Lab Batch ID: 3097150

Sample: 7683060-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	941	94	1000	848	85	10	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	1060	106	1000	1050	105	1	70-135	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631781

Project ID: 212C-MD-01699

Lab Batch ID: 3096939

QC- Sample ID: 631781-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/28/2019

Date Prepared: 07/26/2019

Analyst: FOV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.0953	95	0.101	0.0960	95	1	70-130	35	
Toluene	<0.00200	0.100	0.0859	86	0.101	0.0858	85	0	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0841	84	0.101	0.0836	83	1	70-130	35	
m,p-Xylenes	<0.00101	0.200	0.169	85	0.202	0.167	83	1	70-130	35	
o-Xylene	<0.00200	0.100	0.0884	88	0.101	0.0869	86	2	70-130	35	

Lab Batch ID: 3096940

QC- Sample ID: 631781-040 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/29/2019

Date Prepared: 07/26/2019

Analyst: FOV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00202	0.101	0.0875	87	0.100	0.0789	79	10	70-130	35	
Toluene	<0.00202	0.101	0.0768	76	0.100	0.0687	69	11	70-130	35	X
Ethylbenzene	<0.00202	0.101	0.0740	73	0.100	0.0661	66	11	70-130	35	X
m,p-Xylenes	<0.00102	0.202	0.144	71	0.200	0.129	65	11	70-130	35	X
o-Xylene	<0.00202	0.101	0.0729	72	0.100	0.0654	65	11	70-130	35	X

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631781

Project ID: 212C-MD-01699

Lab Batch ID: 3096405

QC- Sample ID: 631781-055 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	15.5	250	263	99	250	262	99	0	90-110	20	

Lab Batch ID: 3096405

QC- Sample ID: 631781-056 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	26.7	249	277	101	249	276	100	0	90-110	20	

Lab Batch ID: 3096407

QC- Sample ID: 631753-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	10.1	251	272	104	251	267	102	2	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order # : 631781

Project ID: 212C-MD-01699

Lab Batch ID: 3096407

QC- Sample ID: 631852-005 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1370	252	1570	79	252	1570	79	0	90-110	20	X

Lab Batch ID: 3096409

QC- Sample ID: 631660-044 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	166	253	418	100	253	419	100	0	90-110	20	

Lab Batch ID: 3096409

QC- Sample ID: 631780-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	133	248	374	97	248	376	98	1	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631781

Project ID: 212C-MD-01699

Lab Batch ID: 3097150

QC- Sample ID: 632385-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/31/2019

Date Prepared: 07/31/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	12.1	997	1030	102	997	1030	102	0	70-135	20	
Diesel Range Organics (DRO)	12.7	997	1130	112	997	1150	114	2	70-135	20	

Lab Batch ID: 3097388

QC- Sample ID: 631780-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/02/2019

Date Prepared: 07/26/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	12.2	996	1080	107	999	1080	107	0	70-135	20	
Diesel Range Organics (DRO)	13.4	996	1110	110	999	1120	111	1	70-135	20	

Lab Batch ID: 3097389

QC- Sample ID: 631781-038 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/02/2019

Date Prepared: 07/26/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	10.3	997	1140	113	998	1140	113	0	70-135	20	
Diesel Range Organics (DRO)	12.9	997	1150	114	998	1190	118	3	70-135	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record

Page 1 of 7



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: EOG		Site Manager: Clair Gonzales					
Project Name: Golden Graham Shocker		Project #: 212C-MD-01699					
Project Location: (county, state) Eddy County, New Mexico		Project #: 212C-MD-01699					
Invoice to: Accounts Payable 900 West Wall Street Suite 100 Midland, Texas 79701		Sampier Signature: Devin Dominguez					
Receiving Laboratory: Xenco		Sampier Signature: Devin Dominguez					
Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.							
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2019	DATE				
	AH-1 (0-1')	7/22/2019			X	1	N
	AH-1 (1'-1.5')	7/22/2019			X	1	N
	AH-1 (2'-2.5')	7/22/2019			X	1	N
	AH-1 (3'-3.5')	7/22/2019			X	1	N
	AH-1 (4'-4.5')	7/22/2019			X	1	N
	AH-1 (5'-5.5')	7/22/2019			X	1	N
	AH-2 (0-1')	7/22/2019			X	1	N
	AH-2 (1'-1.5')	7/22/2019			X	1	N
	AH-2 (2'-2.5')	7/22/2019			X	1	N
	AH-2 (3'-3.5')	7/22/2019			X	1	N
Relinquished by: [Signature]	Date: 7/23/19	Time: 1101	Received by: [Signature]	Date: 7/23	Time: 1101		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		

LAB USE ONLY	REMARKS:	BTEX 8021B BTEX 8260B	
		TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)
LAB USE ONLY	REMARKS:	PAH 8270C	
		Total Metals Ag As Ba Cd Cr Pb Se Hg	
		TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
		TCLP Volatiles	
		TCLP Semi Volatiles	
		RCI	
		GC/MS Vol. 8260B / 624	
		GC/MS Semi. Vol. 8270C/625	
		PCB's 8082 / 608	
		NORM	
		PLM (Asbestos)	
		Chloride	
		Chloride Sulfate TDS	
		General Water Chemistry (see attached list)	
Anion/Cation Balance			
TPH 8015R			
Hold			

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

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Analysis Request of Chain of Custody Record

Page 2 of 7



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

ANALYSIS REQUEST

(031781)

Client Name: EOG		Site Manager: Clair Gonzales								
Project Name: Golden Graham Shocker		Project #: 212C-MD-01699								
Project Location: (county, state) Eddy County, New Mexico		Project #: 212C-MD-01699								
Invoice to: Accounts Payable 900 West Wall Street Suite 100 Midland, Texas 79701		Sampler Signature: Devin Dominguez								
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez								
Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.										
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:	
		YEAR: 2019	DATE							TIME
	AH-2 (4-4.5)		7/22/2019			X	1	N		
	AH-2 (5-5.5)		7/22/2019			X	1	N		
	AH-3 (0-1)		7/22/2019			X	1	N		
	AH-3 (1-1.5)		7/22/2019			X	1	N		
	AH-4 (0-1)		7/22/2019			X	1	N		
	AH-4 (1-1.5)		7/22/2019			X	1	N		
	AH-4 (2-2.5)		7/22/2019			X	1	N		
	AH-4 (3-3.5)		7/22/2019			X	1	N		
	AH-5 (0-1)		7/22/2019			X	1	N		
	AH-5 (1-1.5)		7/22/2019			X	1	N		
Relinquished by: [Signature]	Date: 7/23/19	Time: 1101	Received by: [Signature]	Date: 7/23	Time: 1101					
Relinquished by:	Date:	Time:	Received by:	Date:	Time:					
Relinquished by:	Date:	Time:	Received by:	Date:	Time:					

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	EOG	Site Manager:	Clair Gonzales				
Project Name:	Golden Graham Shocker						
Project Location: (county, state)	Eddy County, New Mexico	Project #:	212C-MD-01699				
Invoice to:	Accounts Payable 900 West Wall Street Suite 100 Midland, Texas 79701						
Receiving Laboratory:	Xenco	Sampler Signature:	Devin Dominguez				
Comments:	Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.						
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2019	DATE				
	AH-5 (2'-2.5')		7/22/2019		X	1	N
	AH-5 (3'-3.5')		7/22/2019		X	1	N
	AH-6 (0'-1')		7/22/2019		X	1	N
	AH-6 (1'-1.5')		7/22/2019		X	1	N
	AH-6 (2'-2.5')		7/22/2019		X	1	N
	AH-6 (3'-3.5')		7/22/2019		X	1	N
	AH-7 (0'-1')		7/22/2019		X	1	N
	AH-7 (1'-1.5')		7/22/2019		X	1	N
	AH-7 (2'-2.5')		7/22/2019		X	1	N
	AH-7 (3'-3.5')		7/22/2019		X	1	N
Relinquished by:	Date: 7/23/19	Time: 1101	Received by:	Date: 7/23	Time: 1101		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		

ORIGINAL COPY

LAB USE ONLY	REMARKS:		STANDARD		RUSH: Same Day 24 hr 48 hr 72 hr		Push Charges Authorized		Special Report Limits or TRRP Report	

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

6.1/103

ANALYSIS REQUEST

(Circle or Specify Method No.)

431781

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

TPH 8015R

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: EOG		Site Manager: Clair Gonzales					
Project Name: Golden Graham Shocker							
Project Location: (county, state) Eddy County, New Mexico		Project #: 212C-MD-01699					
Invoice to: Accounts Payable 900 West Wall Street Suite 100 Midland, Texas 79701							
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez					
Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.							
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2019	DATE				
	AH-8 (0-1')		7/22/2019		X	1	N
	AH-8 (1'-1.5')		7/22/2019		X	1	N
	AH-8 (2'-2.5')		7/22/2019		X	1	N
	AH-9 (0-1')		7/22/2019		X	1	N
	AH-9 (1'-1.5')		7/22/2019		X	1	N
	AH-9 (2'-2.5')		7/22/2019		X	1	N
	AH-9 (3'-3.5')		7/22/2019		X	1	N
	AH-10 (0-1')		7/22/2019		X	1	N
	AH-10 (1'-1.5')		7/22/2019		X	1	N
	AH-11 (0-1')		7/22/2019		X	1	N
Surrendered by: [Signature]		Date: 7/23/19		Time: 1101		Received by: [Signature]	
Surrendered by:		Date:		Time:		Received by:	
Surrendered by:		Date:		Time:		Received by:	

ORIGINAL COPY

LAB USE ONLY	REMARKS:	
	☒ STANDARD	
	☐ RUSH: Same Day 24 hr 48 hr 72 hr	
	☐ Rush Charges Authorized	
	☐ Special Report Limits or TRRP Report	
	Sample Temperature	
	-6.1/-10.3	
	(Circle) HAND DELIVERED FEDEX UPS Tracking #:	
	BTEX 8021B BTEX 8260B	
	TPH TX1005 (Ext to C35)	
	TPH 8015M (GRO - DRO - ORO - MRO)	
	PAH 8270C	
	Total Metals Ag As Ba Cd Cr Pb Se Hg	
	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
	TCLP Volatiles	
TCLP Semi Volatiles		
RCI		
GC/MS Vol. 8260B / 624		
GC/MS Semi. Vol. 8270C/625		
PCB's 8082 / 608		
NORM		
PLM (Asbestos)		
Chloride		
Chloride Sulfate TDS		
General Water Chemistry (see attached list)		
Anion/Cation Balance		
TPH 8015R		
Hold		

031781

Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Page 5 of 7

ANALYSIS REQUEST

031701

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Page 6 of 7

ANALYSIS REQUEST

(Circle or Specify Method No.)

6370

Client Name:		EOG		Site Manager:		Clair Gonzales									
Project Name:		Golden Graham Shocker													
Project Location:		(county, state) Eddy County, New Mexico				Project #:									
Invoice to:		Accounts Payable 900 West Wall Street Suite 100 Midland, Texas 79701				212C-MD-01699									
Receiving Laboratory:		Xenco		Sampler Signature:		Devin Dominguez									
Comments:		Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.													
LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)				
				YEAR: 2019											
			DATE	TIME			WATER	SOIL	HCL	HNO ₃	ICE	None			
		AH-14 (0-1')	7/22/2019				X		X				1	N	
		AH-14 (1'-1.5')	7/22/2019				X		X				1	N	
		AH-14 (2'-2.5')	7/22/2019				X		X				1	N	
		AH-14 (3'-3.5')	7/22/2019				X		X				1	N	
		AH-15 (0-1')	7/22/2019				X		X				1	N	
		AH-15 (1'-1.5')	7/22/2019				X		X				1	N	
		AH-15 (2'-2.5')	7/22/2019				X		X				1	N	
		AH-15 (3'-3.5')	7/22/2019				X		X				1	N	
		AH-16 (0-1')	7/22/2019				X		X				1	N	
		AH-16 (1'-1.5')	7/22/2019				X		X				1	N	
Disinquired by:		Date:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:
Disinquired by:		Date:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:
Disinquired by:		Date:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:

[illegible]



Client: Tetra Tech- Midland

Date/ Time Received: 07/23/2019 11:01:00 AM

Work Order #: 631781

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	-6.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 07/23/2019

Checklist reviewed by:

Jessica Kramer

Date: 07/23/2019

Analytical Report 637186

**for
Tetra Tech- Midland**

Project Manager: Clair Gonzales

Golden Shocker

212C-MD-01699

19-SEP-19

Collected By: Client



**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



19-SEP-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **637186**

Golden Shocker

Project Address: Eddy Co, NM

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 637186. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 637186 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 637186****Tetra Tech- Midland, Midland, TX**

Golden Shocker

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Upstream	W	09-17-19 00:00		637186-001
Release	W	09-17-19 00:00		637186-002
Downstream	W	09-17-19 00:00		637186-003
Background #1	S	09-17-19 00:00	0 - 1 ft	637186-004
Background #2	S	09-17-19 00:00	0 - 1 ft	637186-005
Background #2	S	09-17-19 00:00	1 - 1.5 ft	637186-006
Background #3	S	09-17-19 00:00	0 - 1 ft	637186-007
Background #4	S	09-17-19 00:00	1 - 1.5 ft	637186-008
Background #5	S	09-17-19 00:00	0 - 1 ft	637186-009



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Golden Shocker

Project ID: 212C-MD-01699
Work Order Number(s): 637186

Report Date: 19-SEP-19
Date Received: 09/17/2019

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3101793 Inorganic Anions by EPA 300/300.1

Lab Sample ID 637186-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 637186-004, -005, -006, -007, -008, -009.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 637186

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Eddy Co, NM

Date Received in Lab: Tue Sep-17-19 03:42 pm

Report Date: 19-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637186-001	637186-002	637186-003	637186-004	637186-005	637186-006
	<i>Field Id:</i>	Upstream	Release	Downstream	Background #1	Background #2	Background #2
	<i>Depth:</i>				0-1 ft	0-1 ft	1-1.5 ft
	<i>Matrix:</i>	WATER	WATER	WATER	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-17-19 00:00	Sep-17-19 00:00	Sep-17-19 00:00	Sep-17-19 00:00	Sep-17-19 00:00	Sep-17-19 00:00
Inorganic Anions by EPA 300	<i>Extracted:</i>	Sep-17-19 18:09	Sep-17-19 18:09	Sep-17-19 18:09			
	<i>Analyzed:</i>	Sep-17-19 20:46	Sep-17-19 20:58	Sep-17-19 21:12			
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL			
Chloride		1500 25.0	1780 25.0	1610 25.0			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>				Sep-17-19 19:09	Sep-17-19 19:09	Sep-17-19 19:09
	<i>Analyzed:</i>				Sep-17-19 22:00	Sep-17-19 22:33	Sep-17-19 22:23
	<i>Units/RL:</i>				mg/kg RL	mg/kg RL	mg/kg RL
Chloride					3330 199	770 50.3	920 50.2

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637186

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Eddy Co, NM

Date Received in Lab: Tue Sep-17-19 03:42 pm

Report Date: 19-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637186-007	637186-008	637186-009			
	<i>Field Id:</i>	Background #3	Background #4	Background #5			
	<i>Depth:</i>	0-1 ft	1-1.5 ft	0-1 ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Sep-17-19 00:00	Sep-17-19 00:00	Sep-17-19 00:00			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Sep-17-19 19:09	Sep-17-19 19:09	Sep-17-19 19:09			
	<i>Analyzed:</i>	Sep-17-19 22:30	Sep-17-19 23:11	Sep-17-19 22:38			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		1780 49.5	1010 50.5	1620 98.2			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

****** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



BS / BSD Recoveries



Project Name: Golden Shocker

Work Order #: 637186

Project ID: 212C-MD-01699

Analyst: MAB

Date Prepared: 09/17/2019

Date Analyzed: 09/17/2019

Lab Batch ID: 3101788

Sample: 7686384-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.500	25.0	27.1	108	25.0	27.1	108	0	90-110	20	

Analyst: MAB

Date Prepared: 09/17/2019

Date Analyzed: 09/17/2019

Lab Batch ID: 3101793

Sample: 7686389-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<10.0	250	232	93	250	243	97	5	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Golden Shocker

Work Order # : 637186

Project ID: 212C-MD-01699

Lab Batch ID: 3101788

QC- Sample ID: 636933-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 09/17/2019

Date Prepared: 09/17/2019

Analyst: MAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	9320	100000	123000	114	100000	124000	115	1	90-110	20	X

Lab Batch ID: 3101793

QC- Sample ID: 637186-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 09/17/2019

Date Prepared: 09/17/2019

Analyst: MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	3330	4010	8880	138	4020	8890	138	0	90-110	20	X

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: EOG Site Manager: Clair Gonzales

Project Name: Golden Shocker

Project Location: Eddy Co, NM Project #: 212C-MD-01699

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco Sampler Signature: Conner Moehring

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None		
	Upstream	9/17/2019		X				X		1	N
	Release	9/17/2019		X				X		1	N
	Downstream	9/17/2019		X				X		1	N
	Background #1 (0-1')	9/17/2019		X				X		1	N
	Background #2 (0-1')	9/17/2019		X				X		1	N
	Background #2 (1-1.5')	9/17/2019		X				X		1	N
	Background #3 (0-1')	9/17/2019		X				X		1	N
	Background #3 (1-1.5')	9/17/2019		X				X		1	N
	Background #4 (0-1')	9/17/2019		X				X		1	N

Fielded by: *James Kennedy* Date: 9/17/19 Time: 1542

Received by: *Clair Gonzales* Date: 9/17/19 Time: 1542

Requested by: Date: Time: Received by: Date: Time:

657-186

ANALYSIS REQUEST
(Circle or Specify Method No.)

- BTEX 8021B BTEX 8260B
- TPH TX1005 (Ext to C35)
- TPH 8015M (GRO - DRO - ORO - MRO)
- PAH 8270C
- Total Metals Ag As Ba Cd Cr Pb Se Hg
- TCLP Metals Ag As Ba Cd Cr Pb Se Hg
- TCLP Volatiles
- TCLP Semi Volatiles
- RCI
- GC/MS Vol. 8260B / 624
- GC/MS Semi. Vol. 8270C/625
- PCB's 8082 / 608
- NORM
- PLM (Asbestos)
- Chloride
- Chloride Sulfate TDS
- General Water Chemistry (see attached list)
- Anion/Cation Balance

LAB USE ONLY

REMARKS:

☐ STANDARD

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Push Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature: 0.8

ORIGINAL COPY

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 09.17.2019 03.42.00 PM

Work Order #: 637186

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 09.17.2019

Checklist reviewed by:



Martha Castro

Date: 09.17.2019



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-001	637475-002	637475-003	637475-004	637475-005	637475-006
	<i>Field Id:</i>	AH10 (0-1')	AH10 (1-1.5')	AH10 (2-2.5')	AH10 (3-3.5')	AH17 (0-1')	AH17 (1-1.5')
	<i>Depth:</i>	0-1 ft	1-1.5 ft	2-2.5 ft	3-3.5 ft	0-1 ft	1-1.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09
	<i>Analyzed:</i>	Sep-20-19 11:35	Sep-20-19 11:55	Sep-20-19 12:02	Sep-20-19 12:08	Sep-20-19 12:15	Sep-20-19 12:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1000 49.9	3000 199	3670 201	3800 198	894 98.8	2660 99.4

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-007	637475-008	637475-009	637475-010	637475-011	637475-012
	<i>Field Id:</i>	AH17 (2-2.5')	AH18 (0-1')	AH18 (1-1.5')	AH19 (0-1')	AH19 (1-1.5')	AH11 (0-1')
	<i>Depth:</i>	2-2.5 ft	0-1 ft	1-1.5 ft	0-1 ft	1-1.5 ft	0-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-19-19 00:00
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09
	<i>Analyzed:</i>	Sep-20-19 12:28	Sep-20-19 12:34	Sep-20-19 12:54	Sep-20-19 13:00	Sep-20-19 13:07	Sep-20-19 13:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1990 99.6	1470 99.6	521 98.6	2350 100	239 101	4950 496

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-013	637475-014	637475-015	637475-016	637475-017	637475-018
	<i>Field Id:</i>	AH11 (1-1.5')	AH11 (2-2.5')	AH11 (3-3.5')	AH11 (4-4.5')	AH12 (0-1')	AH12 (1-1.5')
	<i>Depth:</i>	1-1.5 ft	2-2.5 ft	3-3.5 ft	4-4.5 ft	0-1 ft	1-1.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09
	<i>Analyzed:</i>	Sep-20-19 13:34	Sep-20-19 13:41	Sep-20-19 13:47	Sep-20-19 13:54	Sep-20-19 14:13	Sep-20-19 14:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5680 491	2310 197	2430 98.6	1300 49.9	4400 198	3900 198

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-019	637475-020	637475-021	637475-022	637475-023	637475-024
	<i>Field Id:</i>	AH12 (2-2.5')	AH12 (3-3.5')	AH12 (4-4.5')	AH13 (0-1')	AH13 (1-1.5')	AH13 (2-2.5')
	<i>Depth:</i>	2-2.5 ft	3-3.5 ft	4-4.5 ft	0-1 ft	1-1.5 ft	2-2.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09
	<i>Analyzed:</i>	Sep-20-19 14:26	Sep-20-19 15:14	Sep-20-19 15:35	Sep-20-19 15:44	Sep-20-19 15:51	Sep-20-19 15:58
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2700 98.4	3170 201	1630 49.7	2630 99.6	2550 98.2	1970 201

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-025	637475-026	637475-027	637475-029	637475-030	637475-031
	<i>Field Id:</i>	AH13 (3-3.5')	AH13 (4-4.5')	AH13 (5-5.5')	AH5 (0-1')	AH5 (1-1.5')	AH5 (2-2.5')
	<i>Depth:</i>	3-3.5 ft	4-4.5 ft	5-5.5 ft	0-1 ft	1-1.5 ft	2-2.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09
	<i>Analyzed:</i>	Sep-20-19 16:05	Sep-20-19 16:28	Sep-20-19 16:35	Sep-20-19 16:44	Sep-20-19 16:52	Sep-20-19 17:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1560 101	1120 49.7	817 49.4	450 19.9	7550 199	1670 49.8

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-032	637475-033	637475-034	637475-035	637475-036	637475-037
	<i>Field Id:</i>	AH5 (3-3.5')	AH5 (4-4.5')	AH5 (5-5.5')	AH6 (0-1')	AH6 (1-1.5')	AH6 (2-2.5')
	<i>Depth:</i>	3-3.5 ft	4-4.5 ft	5-5.5 ft	0-1 ft	1-1.5 ft	2-2.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09	Sep-20-19 09:09
	<i>Analyzed:</i>	Sep-20-19 17:22	Sep-20-19 17:29	Sep-20-19 17:37	Sep-20-19 18:00	Sep-20-19 18:07	Sep-20-19 18:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1120 50.0	2840 198	258 49.9	6200 98.4	2210 50.5	5010 202

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-038	637475-039	637475-040	637475-041	637475-042	637475-043
	<i>Field Id:</i>	AH6 (3-3.5')	AH6 (4-4.5')	AH9 (0-1')	AH9 (1-1.5')	AH9 (2-2.5')	AH9 (3-3.5')
	<i>Depth:</i>	3-3.5 ft	4-4.5 ft	0-1 ft	1-1.5 ft	2-2.5 ft	3-3.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09	Sep-20-19 17:30	Sep-20-19 17:30	Sep-20-19 17:30	Sep-20-19 17:30	Sep-20-19 17:30
	<i>Analyzed:</i>	Sep-20-19 18:21	Sep-20-19 18:59	Sep-20-19 19:19	Sep-20-19 19:27	Sep-20-19 19:33	Sep-20-19 19:41
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		597 50.1	4560 198	4300 200	2140 101	1120 50.3	3920 200

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Jessica Kramer
Project Assistant

Analytical Report 637475

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Golden Shocker

212C-MD-01699

25-SEP-19

Collected By: Client



**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (TX104704295-19-21), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



25-SEP-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **637475**

Golden Shocker

Project Address: Lea, Co

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 637475. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 637475 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH10 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-001
AH10 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-002
AH10 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-003
AH10 (3-3.5')	S	09-18-19 00:00	3 - 3.5 ft	637475-004
AH17 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-005
AH17 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-006
AH17 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-007
AH18 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-008
AH18 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-009
AH19 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-010
AH19 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-011
AH11 (0-1')	S	09-19-19 00:00	0 - 1 ft	637475-012
AH11 (1-1.5')	S	09-19-19 00:00	1 - 1.5 ft	637475-013
AH11 (2-2.5')	S	09-19-19 00:00	2 - 2.5 ft	637475-014
AH11 (3-3.5')	S	09-19-19 00:00	3 - 3.5 ft	637475-015
AH11 (4-4.5')	S	09-19-19 00:00	4 - 4.5 ft	637475-016
AH12 (0-1')	S	09-19-19 00:00	0 - 1 ft	637475-017
AH12 (1-1.5')	S	09-19-19 00:00	1 - 1.5 ft	637475-018
AH12 (2-2.5')	S	09-19-19 00:00	2 - 2.5 ft	637475-019
AH12 (3-3.5')	S	09-19-19 00:00	3 - 3.5 ft	637475-020
AH12 (4-4.5')	S	09-19-19 00:00	4 - 4.5 ft	637475-021
AH13 (0-1')	S	09-19-19 00:00	0 - 1 ft	637475-022
AH13 (1-1.5')	S	09-19-19 00:00	1 - 1.5 ft	637475-023
AH13 (2-2.5')	S	09-19-19 00:00	2 - 2.5 ft	637475-024
AH13 (3-3.5')	S	09-19-19 00:00	3 - 3.5 ft	637475-025
AH13 (4-4.5')	S	09-19-19 00:00	4 - 4.5 ft	637475-026
AH13 (5-5.5')	S	09-19-19 00:00	5 - 5.5 ft	637475-027
AH5 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-029
AH5 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-030
AH5 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-031
AH5 (3-3.5')	S	09-18-19 00:00	3 - 3.5 ft	637475-032
AH5 (4-4.5')	S	09-18-19 00:00	4 - 4.5 ft	637475-033
AH5 (5-5.5')	S	09-18-19 00:00	5 - 5.5 ft	637475-034
AH6 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-035
AH6 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-036
AH6 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-037
AH6 (3-3.5')	S	09-18-19 00:00	3 - 3.5 ft	637475-038
AH6 (4-4.5')	S	09-18-19 00:00	4 - 4.5 ft	637475-039
AH9 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-040
AH9 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-041
AH9 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-042
AH9 (3-3.5')	S	09-18-19 00:00	3 - 3.5 ft	637475-043
AH12 (5-5.5')	S	09-19-19 00:00	5 - 5.5 ft	Not Analyzed

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Golden Shocker**Project ID: 212C-MD-01699
Work Order Number(s): 637475Report Date: 25-SEP-19
Date Received: 09/19/2019**Sample receipt non conformances and comments:**

Per clients email corrected sample names for Auger Holes. See below. NEW VERSION GENERATED JK 09/25/19

AH-14 change to AH-17

AH-15 change to AH-18

AH-16 change to AH-19

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3102121 Chloride by EPA 300

Lab Sample ID 637475-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 637475-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3102124 Chloride by EPA 300

Lab Sample ID 637475-031 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 637475-020, -021, -022, -023, -024, -025, -026, -027, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3102126 Chloride by EPA 300

Lab Sample ID 637542-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 637475-039, -040, -041, -042, -043.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH10 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-001

Date Collected: 09.18.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1000	49.9	mg/kg	09.20.19 11.35		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH10 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-002

Date Collected: 09.18.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3000	199	mg/kg	09.20.19 11.55		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH10 (2-2.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-003

Date Collected: 09.18.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3670	201	mg/kg	09.20.19 12.02		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH10 (3-3.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-004

Date Collected: 09.18.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3800	198	mg/kg	09.20.19 12.08		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH17 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-005

Date Collected: 09.18.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	894	98.8	mg/kg	09.20.19 12.15		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH17 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-006

Date Collected: 09.18.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2660	99.4	mg/kg	09.20.19 12.21		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH17 (2-2.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-007

Date Collected: 09.18.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1990	99.6	mg/kg	09.20.19 12.28		10



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: **AH18 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-008

Date Collected: 09.18.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1470	99.6	mg/kg	09.20.19 12.34		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH18 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-009

Date Collected: 09.18.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	521	98.6	mg/kg	09.20.19 12.54		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH19 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-010

Date Collected: 09.18.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2350	100	mg/kg	09.20.19 13.00		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH19 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-011

Date Collected: 09.18.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	239	101	mg/kg	09.20.19 13.07		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH11 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-012

Date Collected: 09.19.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4950	496	mg/kg	09.20.19 13.27		50

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH11 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-013

Date Collected: 09.19.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5680	491	mg/kg	09.20.19 13.34		50

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH11 (2-2.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-014

Date Collected: 09.19.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2310	197	mg/kg	09.20.19 13.41		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH11 (3-3.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-015

Date Collected: 09.19.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2430	98.6	mg/kg	09.20.19 13.47		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH11 (4-4.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-016

Date Collected: 09.19.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1300	49.9	mg/kg	09.20.19 13.54		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH12 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-017

Date Collected: 09.19.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4400	198	mg/kg	09.20.19 14.13		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH12 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-018

Date Collected: 09.19.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3900	198	mg/kg	09.23.19 12.01		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH12 (2-2.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-019

Date Collected: 09.19.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2700	98.4	mg/kg	09.20.19 14.26		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH12 (3-3.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-020

Date Collected: 09.19.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3170	201	mg/kg	09.20.19 15.14		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH12 (4-4.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-021

Date Collected: 09.19.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1630	49.7	mg/kg	09.20.19 15.35		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH13 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-022

Date Collected: 09.19.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2630	99.6	mg/kg	09.20.19 15.44		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH13 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-023

Date Collected: 09.19.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2550	98.2	mg/kg	09.20.19 15.51		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH13 (2-2.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-024

Date Collected: 09.19.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1970	201	mg/kg	09.20.19 15.58		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH13 (3-3.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-025

Date Collected: 09.19.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1560	101	mg/kg	09.20.19 16.05		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH13 (4-4.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-026

Date Collected: 09.19.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	49.7	mg/kg	09.20.19 16.28		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH13 (5-5.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-027

Date Collected: 09.19.19 00.00

Sample Depth: 5 - 5.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	817	49.4	mg/kg	09.20.19 16.35		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH5 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-029

Date Collected: 09.18.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	450	19.9	mg/kg	09.20.19 16.44		2

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH5 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-030

Date Collected: 09.18.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7550	199	mg/kg	09.20.19 16.52		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH5 (2-2.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-031

Date Collected: 09.18.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1670	49.8	mg/kg	09.20.19 17.00		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH5 (3-3.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-032

Date Collected: 09.18.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	50.0	mg/kg	09.20.19 17.22		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH5 (4-4.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-033

Date Collected: 09.18.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2840	198	mg/kg	09.20.19 17.29		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH5 (5-5.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-034

Date Collected: 09.18.19 00.00

Sample Depth: 5 - 5.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	258	49.9	mg/kg	09.20.19 17.37		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH6 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-035

Date Collected: 09.18.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6200	98.4	mg/kg	09.20.19 18.00		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH6 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-036

Date Collected: 09.18.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2210	50.5	mg/kg	09.20.19 18.07		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH6 (2-2.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-037

Date Collected: 09.18.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5010	202	mg/kg	09.20.19 18.15		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH6 (3-3.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-038

Date Collected: 09.18.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	597	50.1	mg/kg	09.20.19 18.21		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH6 (4-4.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-039

Date Collected: 09.18.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 17.30

Basis: Wet Weight

Seq Number: 3102126

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4560	198	mg/kg	09.20.19 18.59		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH9 (0-1')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-040

Date Collected: 09.18.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 17.30

Basis: Wet Weight

Seq Number: 3102126

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4300	200	mg/kg	09.20.19 19.19		20

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH9 (1-1.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-041

Date Collected: 09.18.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 17.30

Basis: Wet Weight

Seq Number: 3102126

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2140	101	mg/kg	09.20.19 19.27		10

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH9 (2-2.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-042

Date Collected: 09.18.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 17.30

Basis: Wet Weight

Seq Number: 3102126

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	50.3	mg/kg	09.20.19 19.33		5

**Certificate of Analytical Results 637475****Tetra Tech- Midland, Midland, TX****Golden Shocker**Sample Id: **AH9 (3-3.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-043

Date Collected: 09.18.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 17.30

Basis: Wet Weight

Seq Number: 3102126

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3920	200	mg/kg	09.20.19 19.41		20



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland
Golden Shocker

Analytical Method: Chloride by EPA 300

Seq Number: 3102121

MB Sample Id: 7686564-1-BLK

Matrix: Solid

LCS Sample Id: 7686564-1-BKS

Prep Method: E300P

Date Prep: 09.20.19

LCSD Sample Id: 7686564-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	254	102	254	102	90-110	0	20	mg/kg	09.20.19 10:22	

Analytical Method: Chloride by EPA 300

Seq Number: 3102124

MB Sample Id: 7686566-1-BLK

Matrix: Solid

LCS Sample Id: 7686566-1-BKS

Prep Method: E300P

Date Prep: 09.20.19

LCSD Sample Id: 7686566-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	258	103	257	103	90-110	0	20	mg/kg	09.20.19 15:01	

Analytical Method: Chloride by EPA 300

Seq Number: 3102126

MB Sample Id: 7686566-1-BLK

Matrix: Solid

LCS Sample Id: 7686566-1-BKS

LCSD Sample Id: 7686566-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	259	104	258	103	90-110	0	20	mg/kg	09.20.19 18:46	

Analytical Method: Chloride by EPA 300

Seq Number: 3102121

Parent Sample Id: 637475-001

Matrix: Soil

MS Sample Id: 637475-001 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1000	994	2250	126	2260	127	90-110	0	20	mg/kg	09.20.19 11:42	X

Analytical Method: Chloride by EPA 300

Seq Number: 3102121

Parent Sample Id: 637475-011

Matrix: Soil

MS Sample Id: 637475-011 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	239	2000	2440	110	2430	110	90-110	0	20	mg/kg	09.20.19 13:14	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Golden Shocker

Analytical Method: Chloride by EPA 300

Seq Number: 3102124

Parent Sample Id: 637475-020

Matrix: Soil

MS Sample Id: 637475-020 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3170	4040	7910	117	8300	127	90-110	5	20	mg/kg	09.20.19 15:21	X

Analytical Method: Chloride by EPA 300

Seq Number: 3102124

Parent Sample Id: 637475-031

Matrix: Solid

MS Sample Id: 637475-031 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1670	1980	3270	81	3330	83	90-110	2	20	mg/kg	09.20.19 17:08	X

Analytical Method: Chloride by EPA 300

Seq Number: 3102126

Parent Sample Id: 637475-039

Matrix: Soil

MS Sample Id: 637475-039 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-039 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4560	3930	9400	123	9600	127	90-110	2	20	mg/kg	09.20.19 19:06	X

Analytical Method: Chloride by EPA 300

Seq Number: 3102126

Parent Sample Id: 637542-004

Matrix: Solid

MS Sample Id: 637542-004 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637542-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1430	998	2780	135	2840	142	90-110	2	20	mg/kg	09.20.19 20:47	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 2 of 5ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 9011W Wall Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

034475

Page

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Client Name: EOG		Site Manager: Clair Gonzalez	
Project Name: Golden-Shocker		Project #: 212C-MD-01699	
Project Location: Lea, CO		Invoice to: EOG-James Kennedy	
Receiving Laboratory: Xenco		Sampler Signature: Devon Dominguez & Tony Lagarda	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None		
AH 12	4-4.5'	9/19/19		X						N
AH 13	0-1'									
AH 13	1-1.5'									
AH 13	2-2.5'									
AH 13	3-3.5'									
AH 13	4-4.5'									
AH 13	5-5.5'									
AH 12	5-5.5'									
AH 5	0-1'									
AH 5	1-1.5'	9/18/19								

LAB USE ONLY	REMARKS:
5.0	☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report

ANALYSIS REQUEST (Circle or Specify Method No.)	
BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 4 of 5

037475

Client Name:

EOG

Site Manager:

Clair Gonzales

Project Name:

Golden-Shocker

Project Location:

Lea, CO

(county, state)

Project #:

212C-MD-01699

Invoice to:

EOG-James Kennedy

Receiving Laboratory:

Xanco

Sampler Signature:

Devon Dominguez & Tony Lagarda

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

YEAR: 2019	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃		

AH S	2-2.5'	9/8/19		X				1	N
AH S	3-3.5'								
AH S	4-4.5'								
AH S	5-5.5'								
AH S	6-6.5'								
AH S	7-7.5'								
AH S	8-8.5'								
AH S	9-9.5'								
AH S	10-10.5'								
AH S	11-11.5'								
AH S	12-12.5'								
AH S	13-13.5'								
AH S	14-14.5'								
AH S	15-15.5'								
AH S	16-16.5'								
AH S	17-17.5'								
AH S	18-18.5'								
AH S	19-19.5'								
AH S	20-20.5'								
AH S	21-21.5'								
AH S	22-22.5'								
AH S	23-23.5'								
AH S	24-24.5'								
AH S	25-25.5'								
AH S	26-26.5'								
AH S	27-27.5'								
AH S	28-28.5'								
AH S	29-29.5'								
AH S	30-30.5'								
AH S	31-31.5'								
AH S	32-32.5'								
AH S	33-33.5'								
AH S	34-34.5'								
AH S	35-35.5'								
AH S	36-36.5'								
AH S	37-37.5'								
AH S	38-38.5'								
AH S	39-39.5'								
AH S	40-40.5'								
AH S	41-41.5'								
AH S	42-42.5'								
AH S	43-43.5'								
AH S	44-44.5'								
AH S	45-45.5'								
AH S	46-46.5'								
AH S	47-47.5'								
AH S	48-48.5'								
AH S	49-49.5'								
AH S	50-50.5'								
AH S	51-51.5'								
AH S	52-52.5'								
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AH S	67-67.5'								
AH S	68-68.5'								
AH S	69-69.5'								
AH S	70-70.5'								
AH S	71-71.5'								
AH S	72-72.5'								
AH S	73-73.5'								
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AH S	75-75.5'								
AH S	76-76.5'								
AH S	77-77.5'								
AH S	78-78.5'								
AH S	79-79.5'								
AH S	80-80.5'								
AH S	81-81.5'								
AH S	82-82.5'								
AH S	83-83.5'								
AH S	84-84.5'								
AH S	85-85.5'								
AH S	86-86.5'								
AH S	87-87.5'								
AH S	88-88.5'								
AH S	89-89.5'								
AH S	90-90.5'								
AH S	91-91.5'								
AH S	92-92.5'								
AH S	93-93.5'								
AH S	94-94.5'								
AH S	95-95.5'								
AH S	96-96.5'								
AH S	97-97.5'								
AH S	98-98.5'								
AH S	99-99.5'								
AH S	100-100.5'								

LAB USE ONLY

Received by:

Date: 9/19/19

Time: 1640

LAB USE ONLY

Received by:

Date: 9/19/19

Time: 1640

LAB USE ONLY

Received by:

Date: 9/19/19

Time: 1640

LAB USE ONLY

Received by:

Date: 9/19/19

Time: 1640

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

Hold

REMARKS:

STANDARD

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

5.0

Sample Temperature

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 2 of 5

637475

[illegible]



Client: Tetra Tech- Midland

Date/ Time Received: 09/19/2019 04:40:00 PM

Work Order #: 637475

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 09/19/2019

Checklist reviewed by:

Jessica Kramer

Date: 09/20/2019



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

May 19, 2022

EZEQUIEL MORENO FLORES

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: GOLDEN GRAHAM TO SHOCKER

Enclosed are the results of analyses for samples received by the laboratory on 05/16/22 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: H - 1 (0-6") (H222077-01)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.2 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: H - 2 (0-6") (H222077-02)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: H - 3 (0-6") (H222077-03)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: BG - 1 (0-1') (H222077-04)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: BG - 2 (0-1') (H222077-05)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (0-1') (H222077-06)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (1-1.5') (H222077-07)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (2-2.5') (H222077-08)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	QM-07
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (3-3.5') (H222077-09)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (4-4.5') (H222077-10)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (0-1') (H222077-11)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (1-1.5') (H222077-12)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (2-2.5') (H222077-13)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (3-3.5') (H222077-14)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (4-4.5') (H222077-15)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (0-1') (H222077-16)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (1-1.5') (H222077-17)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (2-2.5') (H222077-18)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (3-3.5') (H222077-19)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (4-4.5') (H222077-20)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (0-1') (H222077-21)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (1-1.5') (H222077-22)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (2-2.5') (H222077-23)

BTEx 8021B			mg/kg							
			Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46		
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0		
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND						

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (3-3.5') (H222077-24)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (4-4.5') (H222077-25)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (0-1') (H222077-26)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (1-1.5') (H222077-27)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (2-2.5') (H222077-28)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (3-3.5') (H222077-29)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (0-1') (H222077-30)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (1-1.5') (H222077-31)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (2-2.5') (H222077-32)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (3-3.5') (H222077-33)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/17/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 7 (0-1') (H222077-34)

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEx	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4680	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 7 (1-1.5') (H222077-35)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 7 (2-2.5') (H222077-36)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	05/18/2022	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (0-1') (H222077-37)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (1-1.5') (H222077-38)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (2-2.5') (H222077-39)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (3-3.5') (H222077-40)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 9 (0-1') (H222077-41)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 9 (1-1.5') (H222077-42)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 9 (2-2.5') (H222077-43)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 10 (0-1') (H222077-44)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 10 (1-1.5') (H222077-45)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 10 (2-2.5') (H222077-46)

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEx	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 79.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (0-1') (H222077-47)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 70.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (1-1.5') (H222077-48)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (2-2.5') (H222077-49)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (3-3.5') (H222077-50)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (4-4.5') (H222077-51)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (0-1') (H222077-52)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (1-1.5') (H222077-53)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 137 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (2-2.5') (H222077-54)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 130 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (3-3.5') (H222077-55)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (4-4.5') (H222077-56)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0	
Total BTEx	<0.300	0.300	05/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (0-1') (H222077-57)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTEX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 134 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (1-1.5') (H222077-58)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 143 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (2-2.5') (H222077-59)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (3.3.5') (H222077-60)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 133 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (4-4.5') (H222077-61)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (0-1') (H222077-62)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (1-1.5') (H222077-63)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEx	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (2-2.5') (H222077-64)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 157 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (3-3.5') (H222077-65)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (4-4.5') (H222077-66)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTX	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (0-1') (H222077-67)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (1-1.5') (H222077-68)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEx	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (2-2.5') (H222077-69)

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 99.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (3-3.5') (H222077-70)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (4-4.5') (H222077-71)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (0-1') (H222077-72)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (1-1.5') (H222077-73)

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (2-2.5') (H222077-74)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (3-3.5') (H222077-75)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (4-4.5') (H222077-76)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 17 (0-1') (H222077-77)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 67.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 17 (1-1.5') (H222077-78)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 17 (2-2.5') (H222077-79)

BTX 8021B			mg/kg							
			Analyzed By: MS\							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34		
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21		
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND						

Surrogate: 1-Chlorooctane 77.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 18 (0-1') (H222077-80)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 76.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 18 (1-1.5') (H222077-81)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 18 (2-2.5') (H222077-82)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 19 (0-1') (H222077-83)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 19 (1-1.5') (H222077-84)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 19 (2-2.5') (H222077-85)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:		EOG		Site Manager:		Ezequiel Moreno	
Project Name:		Golden Graham to Shocker		Project #:		e.morenoflores@tetratech.com (432)488-7433	
Project Location: (county, state)		Eddy County		Project #:		Pending	
Invoice to:		James Kennedy		Sampler Signature:		Ezequiel Moreno	
Receiving Laboratory:		Cardinal Labs		Sampler Signature:		Ezequiel Moreno	
Comments:							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
1	H-1 (0-6")	5/13/2022		X				X			
2	H-2 (0-6")	5/12/2022		X				X			
3	H-3 (0-6")	5/12/2022		X				X			
4	BG-1 (0-1')	5/13/2022		X				X			
5	BG-2 (0-1')	5/12/2022		X				X			
6	AH-1 (0-1')	5/13/2022		X				X			
7	AH-1 (1-1.5')	5/13/2022		X				X			
8	AH-1 (2-2.5')	5/13/2022		X				X			
9	AH-1 (3-3.5')	5/13/2022		X				X			
10	AH-1 (4-4.5')	5/13/2022		X				X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	5/16/22	1650	<i>[Signature]</i>	5/16/22	1830
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	4.9°C
	C 0.5°C
	4.4°C #1/3

(Circle) HAND DELIVERED	FEDEX	UPS	Tracking #:
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ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: EOG		Site Manager: Ezequiel Moreno	
Project Name: Golden Graham to Shocker		e.moreno@tetratech.com	
Project Location: Eddy County		Project #: Pending	
Invoice to: James Kennedy		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Cardinal Labs		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
										YEAR: 2020		
11	AH-2 (0-1')	5/13/2022		X				X				
12	AH-2 (1-1.5')	5/13/2022		X				X				
13	AH-2 (2-2.5')	5/13/2022		X				X				
14	AH-2 (3-3.5')	5/13/2022		X				X				
15	AH-2 (4-4.5')	5/13/2022		X				X				
16	AH-3 (0-1')	5/13/2022		X				X				
17	AH-3 (1-1.5')	5/13/2022		X				X				
18	AH-3 (2-2.5')	5/13/2022		X				X				
19	AH-3 (3-3.5')	5/13/2022		X				X				
20	AH-3 (4-4.5')	5/13/2022		X				X				

Relinquished by: [Signature]	Date: 5/16/22	Time: 1650	Received by: [Signature]	Date: 5-16-22	Time: 1650
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	4.9°C
	2-0.5°C
	4.4°C #13

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Weil Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	EOG	Site Manager:	Ezequiel Moreno
Project Name:	Golden Graham to Shocker		
Project Location: (county, state)	Eddy County	Project #:	e.moreno@tetratech.com (432)488-7433
Invoice to:	James Kennedy	Sampler Signature:	Ezequiel Moreno
Receiving Laboratory:	Cardinal Labs	Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
										YEAR: 2020		
21	AH-4 (0-1')	5/13/2022		X				X				
22	AH-4 (1-1.5')	5/13/2022		X				X				
23	AH-4 (2-2.5')	5/13/2022		X				X				
24	AH-4 (3-3.5')	5/13/2022		X				X				
25	AH-4 (4-4.5')	5/13/2022		X				X				
26	AH-5 (0-1')	5/13/2022		X				X				
27	AH-5 (1-1.5')	5/13/2022		X				X				
28	AH-5 (2-2.5')	5/13/2022		X				X				
29	AH-5 (3-3.5')	5/13/2022		X				X				
30	AH-6 (0-1')	5/13/2022		X				X				

Relinquished by:	Date: 5/16/22	Time: 1650	Received by:	Date: 5-16-22	Time: 1650
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	4.9°C
	2-0.5°C
	4.4°C #13

(Circle) HAND DELIVERED	FEDEX	UPS	Tracking #:
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ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 5 of 9

Client Name:		EOG		Site Manager:		Ezequiel Moreno	
Project Name:		Golden Graham to Shocker		Project #:		e.morenoflores@tetratech.com (432)488-7433	
Project Location: (county, state)		Eddy County		Project #:		Pending	
Invoice to:		James Kennedy		Sampler Signature:		Ezequiel Moreno	
Receiving Laboratory:		Cardinal Labs		Sampler Signature:		Ezequiel Moreno	
Comments:							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
41	AH-9 (0-1')	5/13/2022		X				X			
42	AH-9 (1-1.5')	5/13/2022		X				X			
43	AH-9 (2-2.5')	5/13/2022		X				X			
44	AH-10 (0-1')	5/13/2022		X				X			
45	AH-10 (1-1.5')	5/13/2022		X				X			
46	AH-10 (2-2.5')	5/13/2022		X				X			
47	AH-11 (0-1')	5/12/2022		X				X			
48	AH-11 (1-1.5')	5/12/2022		X				X			
49	AH-11 (2-2.5')	5/12/2022		X				X			
50	AH-11 (3-3.5')	5/12/2022		X				X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Yegor	5/16/22	1650	Ezequiel Moreno	5-16-22	1650
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	49.8
	2-0.5-6
	4.4°C #118

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B BTEX 8260B
TPH TX1005 (Ext to C35)
TPH 8015M (GRO - DRO - ORO - MRO)
PAH 8270C
Total Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
RCI
GC/MS Vol. 8260B / 624
GC/MS Semi. Vol. 8270C/625
PCB's 8082 / 608
NORM
PLM (Asbestos)
Chloride
Chloride Sulfate TDS
General Water Chemistry (see attached list)
Anion/Cation Balance

Hold

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 6 of 9

Client Name:	EOG	Site Manager:	Ezequiel Moreno
Project Name:	Golden Graham to Shocker		
Project Location: (county, state)	Eddy County	Project #:	emorenoflores@tetratech.com (432)488-7433
Invoice to:	James Kennedy	Sampler Signature:	Ezequiel Moreno
Receiving Laboratory:	Cardinal Labs	Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
										YEAR 2020		
51	AH-11 (4-4.5')	5/12/2022		X				X				
52	AH-12 (0-1')	5/12/2022		X				X				
53	AH-12 (1-1.5')	5/12/2022		X				X				
54	AH-12 (2-2.5')	5/12/2022		X				X				
55	AH-12 (3-3.5')	5/12/2022		X				X				
56	AH-12 (4-4.5')	5/12/2022		X				X				
57	AH-13 (0-1')	5/12/2022		X				X				
58	AH-13 (1-1.5')	5/12/2022		X				X				
59	AH-13 (2-2.5')	5/12/2022		X				X				
60	AH-13 (3-3.5')	5/12/2022		X				X				

Retinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>James Kennedy</i>	5/10/22	1650	<i>Ezequiel Moreno</i>	5/14/22	1650
Retinquished by:	Date:	Time:	Received by:	Date:	Time:

Retinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	4.9°C
	20.5°C
	4.4°C #113

(Circle) HAND DELIVERED FEDEX UPS Tracking #

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ANALYSIS REQUEST
(Circle or Specify Method No.)

Hold

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 7 of 9

Client Name:		EOG		Site Manager:		Ezequiel Moreno	
Project Name:		Golden Graham to Snocker		Project #:		emorenoflores@tetratech.com (432)488-7433	
Project Location: (county, state)		Eddy County		Project #:		Pending	
Invoice to:		James Kennedy		Sampler Signature:		Ezequiel Moreno	
Receiving Laboratory:		Cardinal Labs		Sampler Signature:		Ezequiel Moreno	
Comments:							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
U1	AH-13 (4-4.5')	5/12/2022		X				X			
U2	AH-14 (0-1')	5/12/2022		X				X			
U3	AH-14 (1-1.5')	5/12/2022		X				X			
U4	AH-14 (2-2.5')	5/12/2022		X				X			
U5	AH-14 (3-3.5')	5/12/2022		X				X			
U6	AH-14 (4-4.5')	5/12/2022		X				X			
U7	AH-15 (0-1')	5/12/2022		X				X			
U8	AH-15 (1-1.5')	5/12/2022		X				X			
U9	AH-15 (2-2.5')	5/12/2022		X				X			
U0	AH-15 (3-3.5')	5/12/2022		X				X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Jeff A-	5/16/22	1650	Ezequiel Moreno	5/16/22	1650
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	4.9°C
4.4°C #1/3	

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

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Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
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Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 9 of 9

Page 96 of 96

[illegible]

Analytical Report 631780

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Golden Graham Shocker

212C-MD-01699

05-AUG-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429), North Carolina (483)



05-AUG-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **631780**

Golden Graham Shocker

Project Address: Eddy County, New Mexico

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 631780. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 631780 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 631780****Tetra Tech- Midland, Midland, TX**

Golden Graham Shocker

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Horizontal-1 (0-1')	S	07-22-19 00:00		631780-001
Horizontal-2 (0-1')	S	07-22-19 00:00		631780-002
Horizontal-3 (0-1')	S	07-22-19 00:00		631780-003



CASE NARRATIVE

Client Name: Tetra Tech- Midland
Project Name: Golden Graham Shocker

Project ID: 212C-MD-01699
Work Order Number(s): 631780

Report Date: 05-AUG-19
Date Received: 07/23/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3096823 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3097388 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected.

Samples affected are: 631780-001,631780-003,631780-002.



Certificate of Analysis Summary 631780

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker



Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631780-001	631780-002	631780-003			
	<i>Field Id:</i>	Horizontal-1 (0-1')	Horizontal-2 (0-1')	Horizontal-3 (0-1')			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00			
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 10:45	Jul-26-19 10:45	Jul-26-19 10:45			
	<i>Analyzed:</i>	Jul-27-19 11:24	Jul-27-19 11:44	Jul-27-19 12:04			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00397 0.00397			
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 09:45	Jul-24-19 09:45	Jul-24-19 09:45			
	<i>Analyzed:</i>	Jul-24-19 10:22	Jul-24-19 12:15	Jul-24-19 12:34			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		133 4.96	21600 249	3060 24.8			
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00			
	<i>Analyzed:</i>	Aug-02-19 11:28	Aug-02-19 12:37	Aug-02-19 13:00			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
 The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
 XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
 Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.9%

Jessica Kramer

Jessica Kramer
Project Assistant



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3096823

Sample: 631780-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 11:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

Lab Batch #: 3096823

Sample: 631780-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 11:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

Lab Batch #: 3096823

Sample: 631780-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 12:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	70-130	
4-Bromofluorobenzene	0.0257	0.0300	86	70-130	

Lab Batch #: 3097388

Sample: 631780-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 11:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	99.9	88	70-135	
o-Terphenyl	32.1	50.0	64	70-135	**

Lab Batch #: 3097388

Sample: 631780-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 12:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.7	99.8	87	70-135	
o-Terphenyl	33.4	49.9	67	70-135	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 13:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	99.7	91	70-135	
o-Terphenyl	31.5	49.9	63	70-135	**

Lab Batch #: 3096823

Sample: 7682920-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/19 06:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

Lab Batch #: 3097388

Sample: 7683045-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.1	100	93	70-135	
o-Terphenyl	35.4	50.0	71	70-135	

Lab Batch #: 3096823

Sample: 7682920-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/19 04:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	70-130	
4-Bromofluorobenzene	0.0326	0.0300	109	70-130	

Lab Batch #: 3097388

Sample: 7683045-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.6	100	87	70-135	
o-Terphenyl	38.7	50.0	77	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3096823

Sample: 7682920-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/19 04:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	70-130	
4-Bromofluorobenzene	0.0337	0.0300	112	70-130	

Lab Batch #: 3097388

Sample: 7683045-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 11:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	100	90	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

Lab Batch #: 3096823

Sample: 631753-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 05:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	70-130	
4-Bromofluorobenzene	0.0361	0.0300	120	70-130	

Lab Batch #: 3097388

Sample: 631780-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 11:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.6	99.6	92	70-135	
o-Terphenyl	38.5	49.8	77	70-135	

Lab Batch #: 3096823

Sample: 631753-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 05:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	70-130	
4-Bromofluorobenzene	0.0363	0.0300	121	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 12:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	99.9	91	70-135	
o-Terphenyl	39.5	50.0	79	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631780

Project ID: 212C-MD-01699

Analyst: FOV

Date Prepared: 07/26/2019

Date Analyzed: 07/27/2019

Lab Batch ID: 3096823

Sample: 7682920-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00200	0.100	0.101	101	0.100	0.104	104	3	70-130	35	
Toluene	<0.00200	0.100	0.0979	98	0.100	0.101	101	3	70-130	35	
Ethylbenzene	<0.00200	0.100	0.112	112	0.100	0.116	116	4	70-130	35	
m,p-Xylenes	<0.00400	0.200	0.229	115	0.200	0.237	119	3	70-130	35	
o-Xylene	<0.00200	0.100	0.110	110	0.100	0.114	114	4	70-130	35	

Analyst: CHE

Date Prepared: 07/24/2019

Date Analyzed: 07/24/2019

Lab Batch ID: 3096409

Sample: 7682652-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	246	98	250	246	98	0	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Version: 1.0%



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631780

Project ID: 212C-MD-01699

Analyst: ARM

Date Prepared: 07/26/2019

Date Analyzed: 08/02/2019

Lab Batch ID: 3097388

Sample: 7683045-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	988	99	1000	1000	100	1	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	979	98	1000	1060	106	8	70-135	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Version: 1.0%



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631780

Project ID: 212C-MD-01699

Lab Batch ID: 3096823

QC- Sample ID: 631753-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/27/2019

Date Prepared: 07/26/2019

Analyst: FOV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00201	0.100	0.0869	87	0.0994	0.0884	89	2	70-130	35	
Toluene	<0.00201	0.100	0.0774	77	0.0994	0.0755	76	2	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0879	88	0.0994	0.0899	90	2	70-130	35	
m,p-Xylenes	<0.00402	0.201	0.174	87	0.199	0.178	89	2	70-130	35	
o-Xylene	<0.00201	0.100	0.0915	92	0.0994	0.0957	96	4	70-130	35	

Lab Batch ID: 3096409

QC- Sample ID: 631660-044 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	166	253	418	100	253	419	100	0	90-110	20	

Lab Batch ID: 3096409

QC- Sample ID: 631780-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	133	248	374	97	248	376	98	1	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order # : 631780

Project ID: 212C-MD-01699

Lab Batch ID: 3097388

QC- Sample ID: 631780-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/02/2019

Date Prepared: 07/26/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	12.2	996	1080	107	999	1080	107	0	70-135	20	
Diesel Range Organics (DRO)	13.4	996	1110	110	999	1120	111	1	70-135	20	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference RPD = $200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Page 1 of 1

[illegible]



Client: Tetra Tech- Midland

Date/ Time Received: 07/23/2019 11:01:00 AM

Work Order #: 631780

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	-6.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6* Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 07/23/2019

Checklist reviewed by:

Jessica Kramer

Date: 07/23/2019



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

May 19, 2022

EZEQUIEL MORENO FLORES

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: GOLDEN GRAHAM TO SHOCKER

Enclosed are the results of analyses for samples received by the laboratory on 05/16/22 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: H - 1 (0-6") (H222077-01)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: H - 2 (0-6") (H222077-02)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: H - 3 (0-6") (H222077-03)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97		
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423		
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND						

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: BG - 1 (0-1') (H222077-04)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/17/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: BG - 2 (0-1') (H222077-05)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (0-1') (H222077-06)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (1-1.5') (H222077-07)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEx	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (2-2.5') (H222077-08)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	QM-07
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (3-3.5') (H222077-09)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (4-4.5') (H222077-10)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (0-1') (H222077-11)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (1-1.5') (H222077-12)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (2-2.5') (H222077-13)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (3-3.5') (H222077-14)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (4-4.5') (H222077-15)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	05/17/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (0-1') (H222077-16)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (1-1.5') (H222077-17)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (2-2.5') (H222077-18)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (3-3.5') (H222077-19)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (4-4.5') (H222077-20)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (0-1') (H222077-21)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (1-1.5') (H222077-22)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (2-2.5') (H222077-23)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (3-3.5') (H222077-24)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (4-4.5') (H222077-25)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (0-1') (H222077-26)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (1-1.5') (H222077-27)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (2-2.5') (H222077-28)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (3-3.5') (H222077-29)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (0-1') (H222077-30)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (1-1.5') (H222077-31)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (2-2.5') (H222077-32)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEx	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (3-3.5') (H222077-33)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/17/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 7 (0-1') (H222077-34)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4680	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 7 (1-1.5') (H222077-35)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 7 (2-2.5') (H222077-36)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	05/18/2022	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (0-1') (H222077-37)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (1-1.5') (H222077-38)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (2-2.5') (H222077-39)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (3-3.5') (H222077-40)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 9 (0-1') (H222077-41)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 9 (1-1.5') (H222077-42)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 9 (2-2.5') (H222077-43)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 10 (0-1') (H222077-44)

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	05/18/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 10 (1-1.5') (H222077-45)

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEx	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 10 (2-2.5') (H222077-46)

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	05/18/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 79.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (0-1') (H222077-47)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 70.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (1-1.5') (H222077-48)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (2-2.5') (H222077-49)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (3-3.5') (H222077-50)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (4-4.5') (H222077-51)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.11	105	2.00	2.58		
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82		
Total BTEx	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (0-1') (H222077-52)

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (1-1.5') (H222077-53)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 137 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (2-2.5') (H222077-54)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 130 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (3-3.5') (H222077-55)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (4-4.5') (H222077-56)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (0-1') (H222077-57)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 134 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (1-1.5') (H222077-58)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 143 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (2-2.5') (H222077-59)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (3.3.5') (H222077-60)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 133 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (4-4.5') (H222077-61)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (0-1') (H222077-62)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTX	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (1-1.5') (H222077-63)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (2-2.5') (H222077-64)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 157 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (3-3.5') (H222077-65)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEx	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (4-4.5') (H222077-66)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (0-1') (H222077-67)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (1-1.5') (H222077-68)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90		
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0		
Total BTEx	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (2-2.5') (H222077-69)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 99.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (3-3.5') (H222077-70)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (4-4.5') (H222077-71)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (0-1') (H222077-72)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (1-1.5') (H222077-73)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (2-2.5') (H222077-74)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.5 % 59.5-142

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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (3-3.5') (H222077-75)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/18/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (4-4.5') (H222077-76)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 17 (0-1') (H222077-77)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 67.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 17 (1-1.5') (H222077-78)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 17 (2-2.5') (H222077-79)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 18 (0-1') (H222077-80)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 76.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 18 (1-1.5') (H222077-81)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 18 (2-2.5') (H222077-82)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 19 (0-1') (H222077-83)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 19 (1-1.5') (H222077-84)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 19 (2-2.5') (H222077-85)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEx	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	05/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 1 of 9

Client Name: EOG		Site Manager: Ezequiel Moreno	
Project Name: Golden Graham to Shocker		e.morenoflores@tetratech.com (432)488-7433	
Project Location: Eddy County		Project #: Pending	
Invoice to: James Kennedy		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Cardinal Labs		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
										YEAR 2020		
1	H-1 (0-6")	5/13/2022		X				X				
2	H-2 (0-6")	5/12/2022		X				X				
3	H-3 (0-6")	5/12/2022		X				X				
4	BG-1 (0-1')	5/13/2022		X				X				
5	BG-2 (0-1')	5/12/2022		X				X				
6	AH-1 (0-1')	5/13/2022		X				X				
7	AH-1 (1-1.5')	5/13/2022		X				X				
8	AH-1 (2-2.5')	5/13/2022		X				X				
9	AH-1 (3-3.5')	5/13/2022		X				X				
10	AH-1 (4-4.5')	5/13/2022		X				X				

Relinquished by: [Signature]	Date: 5/16/22	Time: 1650	Received by: [Signature]	Date: 5/16/22	Time: 1830
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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LAB USE ONLY	REMARKS:
4.9°C	☒ STANDARD
C.O.S.C	☐ RUSH: Same Day 24 hr 48 hr 72 hr
4.4°C #1/3	☐ Rush Charges Authorized
	☐ Special Report Limits or TRRP Report

BTX 8021B	BTX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

(Circle or Specify Method No.)

ANALYSIS REQUEST

LAB USE ONLY

REMARKS:

☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: EOG		Site Manager: Ezequiel Moreno	
Project Name: Golden Graham to Shocker		e.morenoflores@tetratech.com	
Project Location: Eddy County		Project #: Pending	
Invoice to: James Kennedy		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Cardinal Labs		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
										YEAR: 2020		
11	AH-2 (0-1')	5/13/2022		X				X				
12	AH-2 (1-1.5')	5/13/2022		X				X				
13	AH-2 (2-2.5')	5/13/2022		X				X				
14	AH-2 (3-3.5')	5/13/2022		X				X				
15	AH-2 (4-4.5')	5/13/2022		X				X				
16	AH-3 (0-1')	5/13/2022		X				X				
17	AH-3 (1-1.5')	5/13/2022		X				X				
18	AH-3 (2-2.5')	5/13/2022		X				X				
19	AH-3 (3-3.5')	5/13/2022		X				X				
20	AH-3 (4-4.5')	5/13/2022		X				X				

Relinquished by: <i>John A-</i>	Date: 5/16/22	Time: 1650	Received by: <i>James Kennedy</i>	Date: 5-16-22	Time: 1650
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	4.9°C
	6-8.5°C
	4.4°C #13

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(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

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Analysis Request of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 662-4559
Fax (432) 662-3946

Client Name:		EOG		Site Manager:		Ezequiel Moreno	
Project Name:		Golden Graham to Shocker		Project #:		e.moreno@tetratech.com (432)488-7433	
Project Location: (county, state)		Eddy County		Project #:		Pending	
Invoice to:		James Kennedy		Sampler Signature:		Ezequiel Moreno	
Receiving Laboratory:		Cardinal Labs		Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		YEAR 2020		WATER	SOIL	HCL	HNO ₃			ICE	None
		DATE	TIME								
31	AH-6 (1-1.5)	5/13/2022		X				X			
32	AH-6 (2-2.5)	5/13/2022		X				X			
33	AH-6 (3-3.5)	5/13/2022		X				X			
34	AH-7 (0-1)	5/13/2022		X				X			
35	AH-7 (1-1.5)	5/13/2022		X				X			
36	AH-7 (2-2.5)	5/13/2022		X				X			
37	AH-8 (0-1)	5/13/2022		X				X			
38	AH-8 (1-1.5)	5/13/2022		X				X			
39	AH-8 (2-2.5)	5/13/2022		X				X			
40	AH-8 (3-3.5)	5/13/2022		X				X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Jeff La-	5/16/22	1650	James Kennedy	5/16/22	1650
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	4.9°C
4.9°C	4.9°C
4.9°C	4.9°C
4.9°C	4.9°C

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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Midland, Texas 79705
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Fax (432) 682-3946

Page 5 of 9

Client Name:		EOG		Site Manager:		Ezequiel Moreno	
Project Name:		Golden Graham to Shocker		Project #:		e.moreno@tetratech.com (432)488-7433	
Project Location: (county, state)		Eddy County		Project #:		Pending	
Invoice to:		James Kennedy		Sampler Signature:		Ezequiel Moreno	
Receiving Laboratory:		Cardinal Labs		Sampler Signature:		Ezequiel Moreno	
Comments:							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
41	AH-9 (0-1')	5/13/2022		X				X			
42	AH-9 (1-1.5')	5/13/2022		X				X			
43	AH-9 (2-2.5')	5/13/2022		X				X			
44	AH-10 (0-1')	5/13/2022		X				X			
45	AH-10 (1-1.5')	5/13/2022		X				X			
46	AH-10 (2-2.5')	5/13/2022		X				X			
47	AH-11 (0-1')	5/12/2022		X				X			
48	AH-11 (1-1.5')	5/12/2022		X				X			
49	AH-11 (2-2.5')	5/12/2022		X				X			
50	AH-11 (3-3.5')	5/12/2022		X				X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Yegh	5/16/22	1650	Ezequiel Moreno	5-16-22	1650
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:	☒ STANDARD	☐ RUSH: Same Day 24 hr 48 hr 72 hr	☐ Rush Charges Authorized	☐ Special Report Limits or TRRP Report

Sample Temperature	49.8
2-O.S.C	2-O.S.C
4.4°C #118	4.4°C #118

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ANALYSIS REQUEST
(Circle or Specify Method No.)

- BTEX 8021B BTEX 8260B
- TPH TX1005 (Ext to C35)
- TPH 8015M (GRO - DRO - ORO - MRO)
- PAH 8270C
- Total Metals Ag As Ba Cd Cr Pb Se Hg
- TCLP Metals Ag As Ba Cd Cr Pb Se Hg
- TCLP Volatiles
- TCLP Semi Volatiles
- RCI
- GC/MS Vol. 8260B / 624
- GC/MS Semi. Vol. 8270C/625
- PCB's 8082 / 608
- NORM
- PLM (Asbestos)
- Chloride
- Chloride Sulfate TDS
- General Water Chemistry (see attached list)
- Anion/Cation Balance

Hold

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 6 of 9

Client Name:		EOG		Site Manager:		Ezequiel Moreno	
Project Name:		Golden Graham to Shocker		Project #:		emorenoflores@tetratech.com (432)488-7433	
Project Location: (county, state)		Eddy County		Project #:		Pending	
Invoice to:		James Kennedy		Sampler Signature:		Ezequiel Moreno	
Receiving Laboratory:		Cardinal Labs		Sampler Signature:		Ezequiel Moreno	
Comments:							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
51	AH-11 (4-4.5')	5/12/2022		X				X			
52	AH-12 (0-1')	5/12/2022		X				X			
53	AH-12 (1-1.5')	5/12/2022		X				X			
54	AH-12 (2-2.5')	5/12/2022		X				X			
55	AH-12 (3-3.5')	5/12/2022		X				X			
56	AH-12 (4-4.5')	5/12/2022		X				X			
57	AH-13 (0-1')	5/12/2022		X				X			
58	AH-13 (1-1.5')	5/12/2022		X				X			
59	AH-13 (2-2.5')	5/12/2022		X				X			
60	AH-13 (3-3.5')	5/12/2022		X				X			

Retinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>James Kennedy</i>	5/10/22	1650	<i>James Kennedy</i>	5/14/22	1650
Retinquished by:	Date:	Time:	Received by:	Date:	Time:

Retinquished by:	Date:	Time:	Received by:	Date:	Time:

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ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	4.9°C
	20.5°C
	4.4°C #113

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:		EOG		Site Manager:		Ezequiel Moreno	
Project Name:		Golden Graham to Snocker		Project #:		e.moreno@tetratech.com (432)488-7433	
Project Location: (county, state)		Eddy County		Project #:		Pending	
Invoice to:		James Kennedy		Sampler Signature:		Ezequiel Moreno	
Receiving Laboratory:		Cardinal Labs		Sampler Signature:		Ezequiel Moreno	
Comments:							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
U1	AH-13 (4-4.5')	5/12/2022		X				X			
U2	AH-14 (0-1')	5/12/2022		X				X			
U3	AH-14 (1-1.5')	5/12/2022		X				X			
U4	AH-14 (2-2.5')	5/12/2022		X				X			
U5	AH-14 (3-3.5')	5/12/2022		X				X			
U6	AH-14 (4-4.5')	5/12/2022		X				X			
U7	AH-15 (0-1')	5/12/2022		X				X			
U8	AH-15 (1-1.5')	5/12/2022		X				X			
U9	AH-15 (2-2.5')	5/12/2022		X				X			
U0	AH-15 (3-3.5')	5/12/2022		X				X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Jeff A-	5/16/22	1650	Ezequiel Moreno	5/16/22	1650
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:	☒ STANDARD	☐ RUSH: Same Day 24 hr 48 hr 72 hr	☐ Rush Charges Authorized	☐ Special Report Limits or TRRP Report

Sample Temperature	4.9°
4.4° #1/3	

(Circle) HAND DELIVERED	FEDEX	UPS	Tracking #:
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ANALYSIS REQUEST
(Circle or Specify Method No.)

Hold

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 8 of 9

Client Name:		EOG		Site Manager:		Ezequiel Moreno	
Project Name:		Golden Graham to Snocker		Project #:		e.moreno@tetratech.com (432)488-7433	
Project Location: (county, state)		Eddy County		Project #:		Pending	
Invoice to:		James Kennedy		Sampler Signature:		Ezequiel Moreno	
Receiving Laboratory:		Cardinal Labs		Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
71	AH-15 (4-4.5')	5/12/2022		X				X			
72	AH-16 (0-1')	5/12/2022		X				X			
73	AH-16 (1-1.5')	5/12/2022		X				X			
74	AH-16 (2-2.5')	5/12/2022		X				X			
75	AH-16 (3-3.5')	5/12/2022		X				X			
76	AH-16 (4-4.5')	5/12/2022		X				X			
77	AH-17 (0-1')	5/13/2022		X				X			
78	AH-17 (1-1.5')	5/13/2022		X				X			
79	AH-17 (2-2.5')	5/13/2022		X				X			
80	AH-18 (0-1')	5/13/2022		X				X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
James Kennedy	5/11/22	1050	Ezequiel Moreno	5/12/22	1450
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature	4.96
0-6.5°C	
4.4°C #113	

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 9 of 9

Client Name: EOG		Site Manager: Ezequiel Moreno	
Project Name: Golden Graham to Shocker		e.morenoflores@tetratech.com (432)488-7433	
Project Location: Eddy County		Project #: Pending	
Invoice to: James Kennedy		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Cardinal Labs		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
										YEAR: 2020			
81	AH-18 (1-1.5')	5/13/2022		X				X					X
82	AH-18 (2-2.5')	5/13/2022		X				X					X
83	AH-19 (0-1')	5/13/2022		X				X					X
84	AH-19 (1-1.5')	5/13/2022		X				X					X
85	AH-19 (2-2.5')	5/13/2022		X				X					X

Relinquished by: [Signature]	Date: 5/14/22	Time: 1650	Received by: [Signature]	Date: 5/14/22	Time: 1650
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:	☒ STANDARD	☐ RUSH: Same Day 24 hr 48 hr 72 hr	☐ Rush Charges Authorized	☐ Special Report Limits or TRRP Report

Sample Temperature	4.9°C
4.4°C #115	

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

QUESTIONS

Action 593775

QUESTIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 593775
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1910935399
Incident Name	NAB1910935399 GOLDEN GRAHAM TO SHOCKER SWD LINE RELEASE @ 30-015-45324
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-45324] GOLDEN GRAHAM 1 STATE COM #721H

Location of Release Source

Please answer all the questions in this group.

Site Name	GOLDEN GRAHAM TO SHOCKER SWD LINE RELEASE
Date Release Discovered	04/01/2019
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Pipeline (Any) Produced Water Released: 615 BBL Recovered: 0 BBL Lost: 615 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 593775

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 593775
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Hadlie Stout Title: Environmental Representative II Email: Hadlie_stout@eogresources.com Date: 06/09/2026
--	--

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QUESTIONS, Page 3

Action 593775

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 593775
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 100 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	14700
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	175
GRO+DRO (EPA SW-846 Method 8015M)	147
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	07/01/2026
On what date will (or did) the final sampling or liner inspection occur	09/30/2026
On what date will (or was) the remediation complete(d)	09/30/2026
What is the estimated surface area (in square feet) that will be reclaimed	79028
What is the estimated volume (in cubic yards) that will be reclaimed	1465
What is the estimated surface area (in square feet) that will be remediated	79028
What is the estimated volume (in cubic yards) that will be remediated	1465
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 593775

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 593775
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fJEG1635837366 OWL LANDFILL JAL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Hadlie Stout Title: Environmental Representative II Email: Hadlie_stout@eogresources.com Date: 06/09/2026
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 593775

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 593775
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 593775

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 593775
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	366217
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/25/2024
What was the (estimated) number of samples that were to be gathered	48
What was the sampling surface area in square feet	100

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
--	----

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CONDITIONS

Action 593775

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 593775
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	A Remediation Plan was conditionally approved for this incident on 4/19/2023. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The release will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule or calculated composite background chloride levels. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. Confirmation samples should be collected every 200 ft2. Background sampling methodology was discussed in the 4/19/2023 approval.	7/15/2026
rhamlet	On 7/17/2024 Brittany Long sent an email saying, "We appreciate you taking the time to meet with us concerning the Golden Graham to Shocker site. Please see the attached map showing the proposed background sample locations as we discussed in our call today. The background samples that were discussed and are shown on the attached map, are pertaining to the remediation of auger holes (AH-1, AH-2, AH-7, and AH-8), for depths greater than 4.0 foot below ground surface." On 7/19/2024 Mike Bratcher responded by email, "Please move BG 5, 6 & 7 out just far enough to be in an undisturbed area. BG 1, 2, 3, 4 & 8 are fine." Later that day on 7/19/2024 Brittany Long attached the revised map, and the OCD acknowledged the map by insisting that BG5 be pushed further out and that background sampling must be taken only in undisturbed areas.	7/15/2026
rhamlet	An email sent on 8/13/2024 by Brittany Long included 3 attachments (EOG Golden Graham to Shocker Table 4, 2024 Background Sampling Photolog, and Golden Graham to Shocker 2024 Actual Background Sample Locations). After many communications and meetings, please move forward with these background numbers (composite background number will still need to be calculated). If shallow groundwater is encountered, please contact the OCD and/or SLO for further guidance. Please feel free to contact us for any questions/concerns. The work will need to be completed in 90 days after the remediation plan has been conditionally approved.	7/15/2026