Form C-141
Page 6

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NRM2008359201 |
| District RP | |
| Facility ID | |
| Application ID | |

# Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

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

Printed Name: Todd Wells  Title: Environmental Specialist

Signature: Todd Wells  Date: 6/29/21

email: Todd_Wells@eogresources.com  Telephone: (432) 686-3613

**OCD Only**

Received by: Chad Hensley  Date: 07/15/2021

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

Closure Approved by: Chad Hensley  Date: 07/15/2021

Printed Name: Chad Hensley  Title: Environmental Specialist Advanced

# SITE INFORMATION

## Report Type: Closure Report NRM 2008359201

| General Site Information: | | | | | | |
|---|---|---|---|---|---|---|
| ***Site:*** | **Rattlesnake Reuse Water Pit** | | | | | |
| ***Company:*** | **EOG Resources** | | | | | |
| ***Section, Township and Range*** | **Unit M** | **Sec. 22** | **T 26S** | **R 33E** | | |
| ***County:*** | **Lea County** | | | | | |
| ***GPS:*** | **32.022925** | | | **-103.56748** | | |
| ***Surface Owner:*** | Private | | | | | |

| Release Data: | |
|---|---|
| *Date Released:* | 10/8/2019 |
| *Type Release:* | Produced Water |
| *Source of Contamination:* | Lay Flat |
| *Fluid Released:* | 700 bbl water |
| *Fluids Recovered:* | 240 bbl water |

| Official Communication: | | | |
|---|---|---|---|
| *Name:* | Todd Wells | | Clair Gonzales |
| *Company:* | EOG Resources | | Tetra Tech |
| *Address:* | 5509 Champions Dr. | | 901 W. Wall St. |
| | | | Ste 100 |
| *City:* | Midland, Texas, 79706 | | Midland, Texas, 79701 |
| *Phone number:* | (432) 686-3613 | | (432) 682-4559 |
| *Fax:* | | | |
| *Email:* | Todd_Wells@eogresources.com | | Clair.Gonzales@tetratech.com |

| Site Characterization | |
|---|---|
| ***Depth to Groundwater:*** | *76.60' below surface* |
| ***Karst Potential:*** | *Medium* |

| Recommended Remedial Action Levels (RRALs) | | | | |
|---|---|---|---|---|
| ***Benzene*** | ***Total BTEX*** | ***TPH (GRO+DRO)*** | ***TPH (GRO+DRO+MRO)*** | ***Chlorides*** |
| *10 mg/kg* | *50 mg/kg* | *1,000 mg/kg* | *2,500 mg/kg* | *10,000 mg/kg* |

TETRA TECH

June 28, 2021

Environmental Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Report for the EOG Resources, Rattlesnake Reuse Pit, Unit M, Section 22, Township 26 South, Range 33 East, Lea County, New Mexico. NRM2008359201**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess and remediate a release that occurred at the EOG Resources, Rattlesnake Reuse Pit, Unit M, Section 22, Township 26 South, Range 33 East, Lea County, New Mexico (Site). The site coordinates are 32.02368º, -103.56844º. The site location is shown on Figures 1 and 2.

**Background**

According to the State of New Mexico C-141 Initial Report, the release was discovered on October 8, 2019, and released approximately 700 barrels of produced water due to a lay flat line that ruptured at a connection head. Approximately 240 barrels of the released fluids were recovered. The release occurred on a pad, migrated onto the pasture and lease road, impacted areas measuring approximately 527' x 723'. The C-141 form is included in Appendix A.

**Site Characterization**

A site characterization was performed for the site. No watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines floodplains are located within the specified distances. The site is in a medium karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 27, approximately 0.55 miles southeast of the site, and has a reported depth to groundwater of 76.60 feet below ground surface. Site characterization data is included in Appendix B.

**Regulatory**

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine

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TETRA TECH

recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). The proposed RRAL for TPH is 2,500 mg/kg (GRO+DRO+MRO) based upon the site characterization. Additionally, based on the site characterization, the proposed RRAL for chlorides is 10,000 mg/kg.

**Soil Assessment and Analytical Results**

Tetra Tech personnel were onsite October 17-18, 2019, to evaluate and sample the release area. A total of twenty-one (21) auger holes (AH-1 through AH-21) were installed to total depths ranging from 0' – 2.5' below surface. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed benzene, total BTEX, and TPH concentrations above the laboratory reporting limits, except for the samples collected at 0-1.0' of the areas of auger holes (AH-7 and AH-8) and at 1.0'-1.5' of the area of auger hole (AH-9) which reported TPH concentrations of 552 mg/kg, 1,500 mg/kg, and 542 mg/kg, respectively. The areas of AH-9, AH-11, and AH-13 through AH-20 showed chloride concentrations above the remediation limit of 600 mg/kg. These areas showed chloride concentrations ranging from 680 mg/kg to 11,800 mg/kg; these areas, except for AH-9, were not vertically defined at total depths ranging from 0-1.5' below surface. The area of AH-9 was vertically defined at 2.0' below surface.

**Remediation and Reclamation Activities**

Based on the soil assessment results, Tetra Tech personnel were onsite February 26, 2020, through July 10, 2020, to supervise the remediation and reclamation activities and collect confirmation samples. The impacted areas were excavated to total depths ranging from 2.0'-6.5' below surface, as shown on Figures 4, 4A, and Table 2.

Confirmation bottom hole and sidewall samples were collected every 200 square feet, a total of 478 bottom hole samples (Bottom Hole 1 through Bottom Hole 478) and 76 sidewall samples (N1SW through N17SW, W1SW through W23SW, E1SW through E21SW, S1SW through S15SW) were collected to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths and sample locations are shown on Figures 4 and 4A.

Referring to Table 2, none of the samples analyzed showed benzene, total BTEX, or TPH concentrations above the RRALs. Additionally, all chloride samples showed chloride concentrations below the RRAL's and reclamation standards.

All of the contaminated material was excavated and transported offsite for proper disposal. The area was then backfilled with clean material to surface grade.

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**Conclusion**

Based on the laboratory results and remediation activities performed, EOG requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

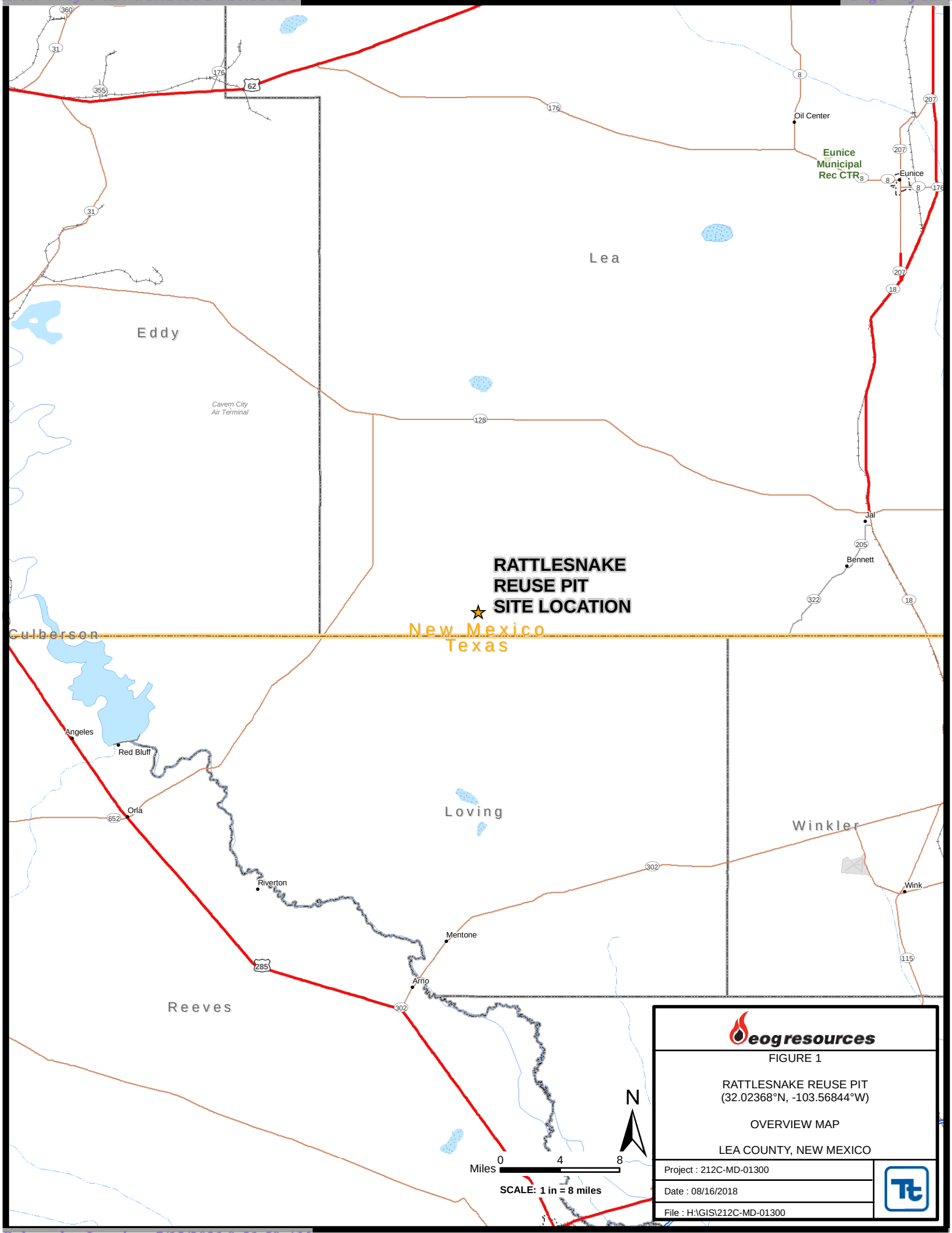


Brittany Long,
Project Manager



Clair Gonzales,
Senior Project Manager

# Figures




eog resources

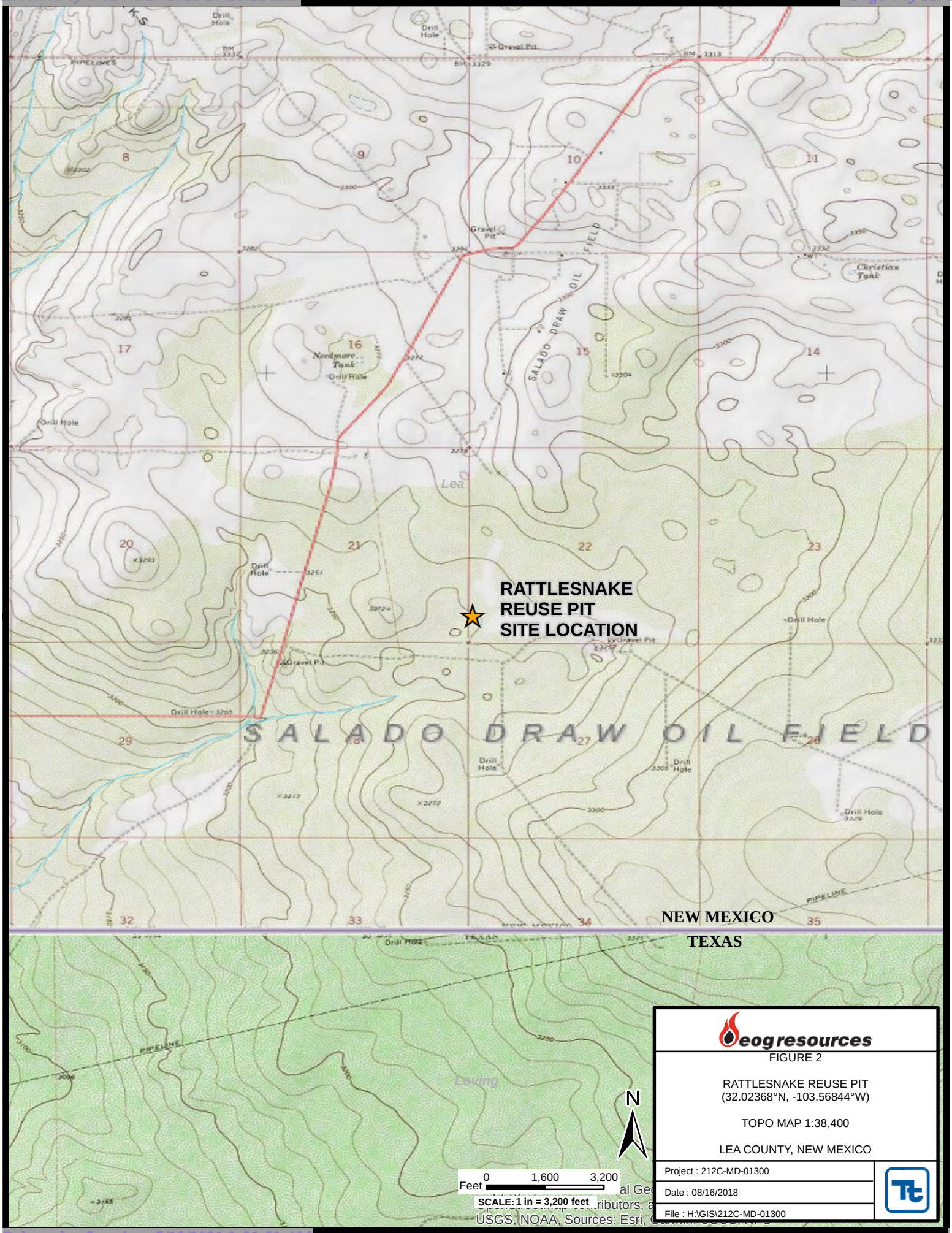
FIGURE 1

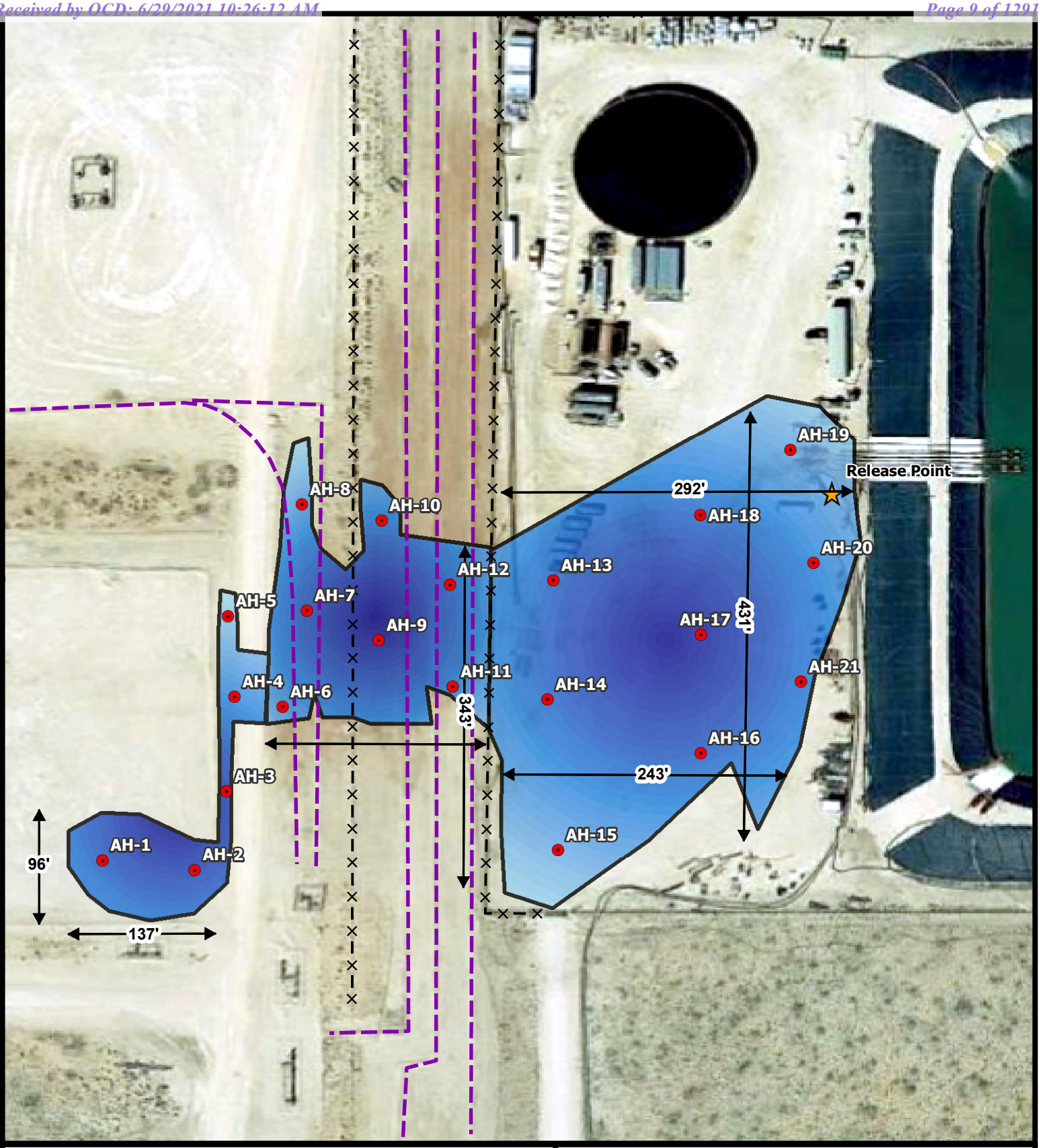
RATTLESNAKE REUSE PIT
(32.02368°N, -103.56844°W)

OVERVIEW MAP

LEA COUNTY, NEW MEXICO

| | |
|---|---|
| Project : 212C-MD-01300 | |
| Date : 08/16/2018 | |
| File : H:\GIS\212C-MD-01300 | |


RATTLESNAKE
REUSE PIT
SITE LOCATION
SALADO DRAW OIL FIELD
NEW MEXICO
TEXAS
N
0 1,600 3,200
Feet
SCALE: 1 in = 3,200 feet
eog resources
FIGURE 2
RATTLESNAKE REUSE PIT
(32.02368°N, -103.56844°W)
TOPO MAP 1:38,400
LEA COUNTY, NEW MEXICO
Project : 212C-MD-01300
Date : 08/16/2018
File : H:\GIS\212C-MD-01300




AUGERHOLE SAMPLE LOCATIONS
BURIED LINES
FENCE LINE
AFFECTED SPILL AREA

N
W
E
S

0 65 130
Approximate Scale in Feet

*Source:* "New Mexico". 32° 1'21.72"N, 103°34'6.96"W. **Google Earth**. February 02,2019. May 28, 2020

SPILL ASSESSMENT MAP
RATTLESNAKE REUSE PIT
Property Located at coordinates 32.02368N, -103.56844°
LEA COUNTY, NEW MEXICO

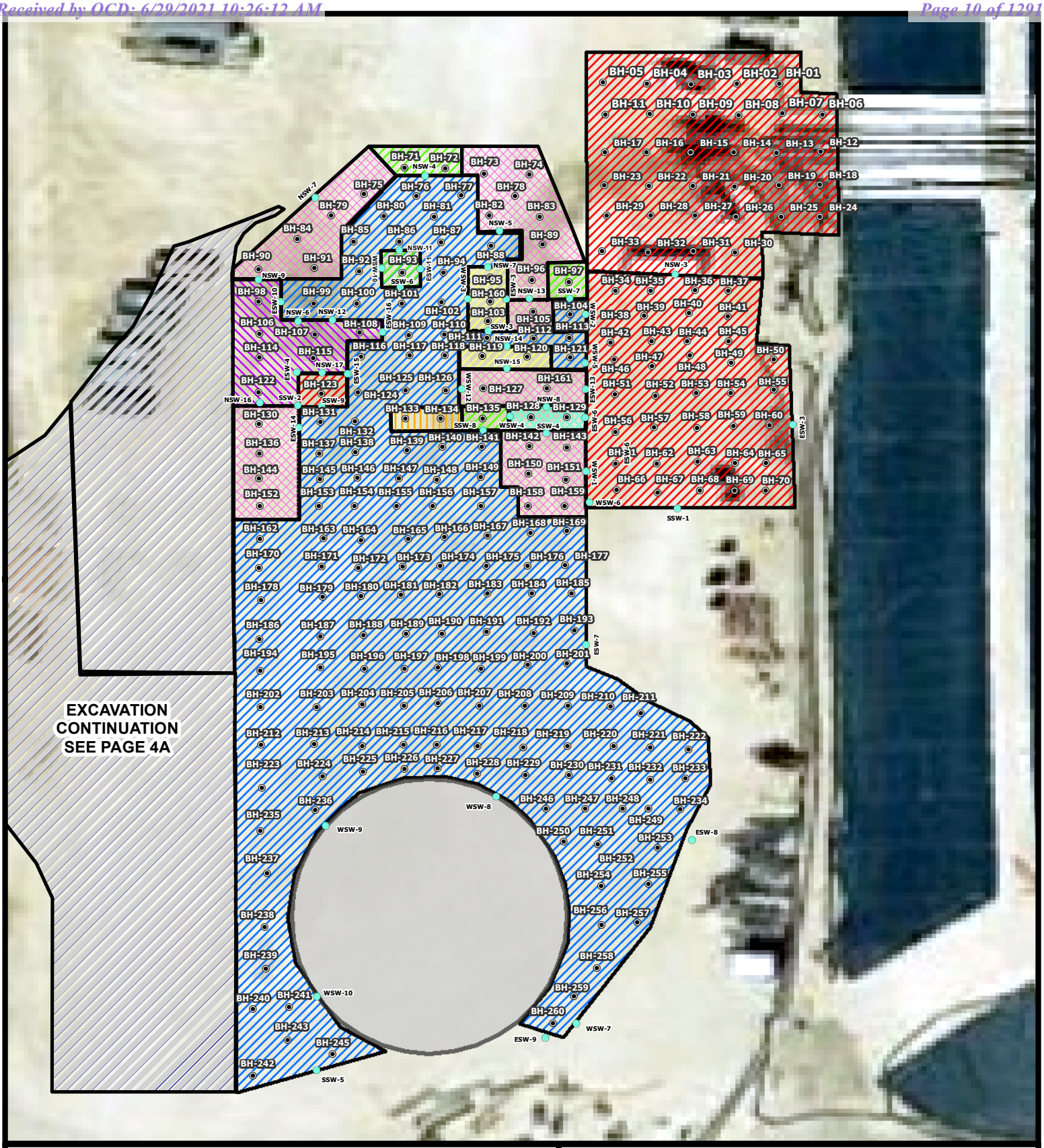
eog resources

TETRA TECH
901 W Wall St Ste. 100,
Midland, TX 79701
(432) 682-4559

Project #: 212C-MD-01974
Date: 08-27-2020
Drawn By: MLM

FIGURE
3

Date: 8/27/2020 Document Path: H:\GIS\EOG RESOURCES\212C-MD-01300 (01974) EOG Rattlesnake Reuse Pit\MXD\212C-MD-01974 RATTLESNAKE FIG. 3.mxd




- BOTTOMHOLE SAMPLE LOCATIONS
- SIDEWALL SAMPLE LOCATIONS
- 2.0' EXCAVATION AREA
- 2.5' EXCAVATION AREA
- 3.5' EXCAVATED DEPTH AREA
- 3.0' EXCAVATED DEPTH AREA
- 4.5' EXCAVATION AREA
- 5.0' EXCAVATION AREA
- 5.5' EXCAVATION AREA
- 6.5' EXCAVATION AREA
- EQUIPMENT TANK

*Source:* "New Mexico". 32° 1'21.72"N, 103°34'6.96"W. **Google Earth**. February 02,2019.May 28, 2020

N W E S

0 27.5 55

Approximate Scale in Feet

EXCAVATION AREA & DEPTH MAP
RATTLESNAKE REUSE PIT
Property Located at coordinates 32.02368°, -103.56844°
LEA COUNTY, NEW MEXIDO

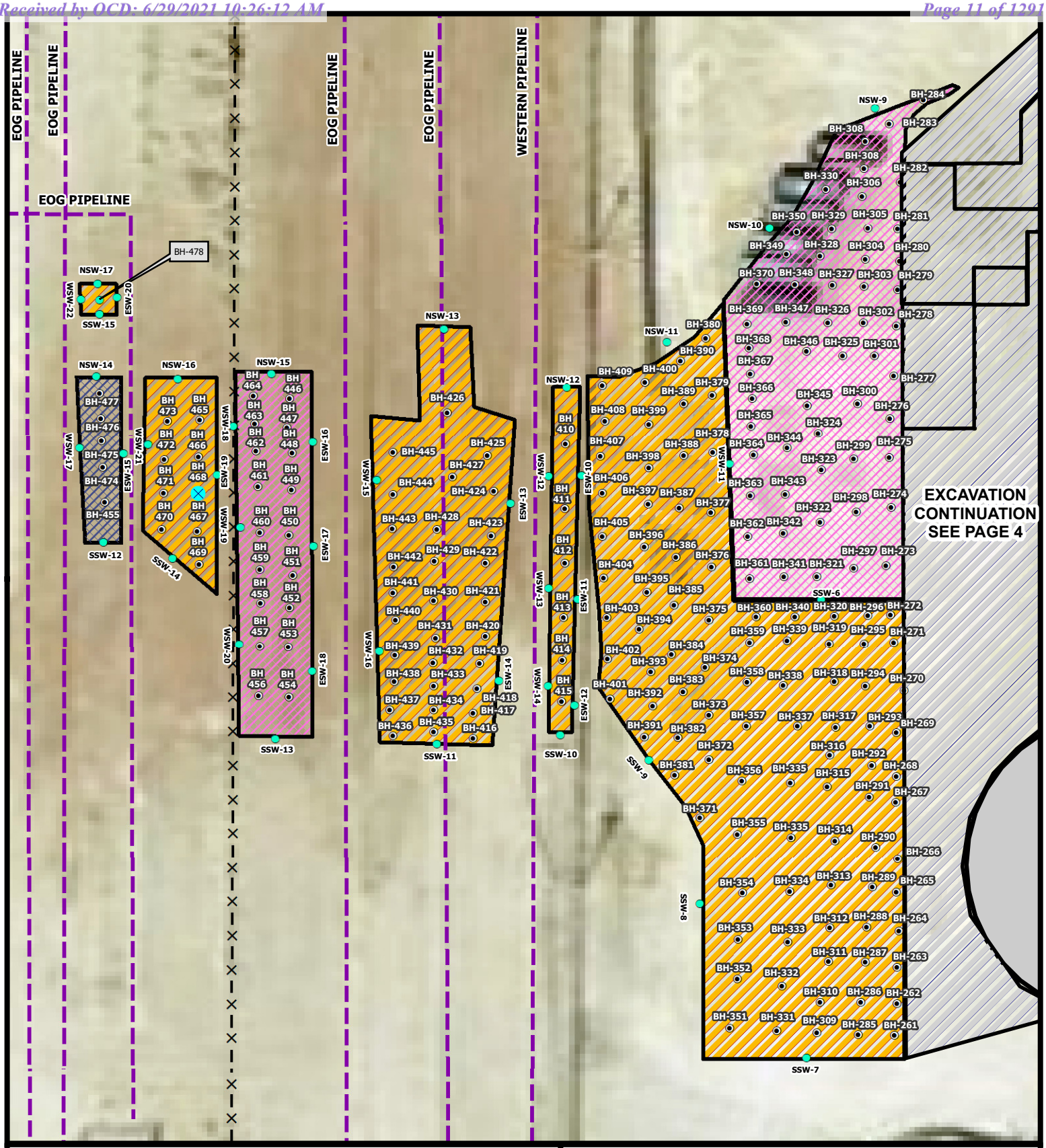
eog resources

TETRA TECH
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Midland, TX 79701
(432) 682-4559

Project #: 212C-MD-01974
Date: 05-27-2020
Drawn By: MLM

FIGURE 4

Date: 6/18/2021 Document Path: H:\GIS\EOG RESOURCES\212C-MD-01300 (01974) EOG Rattlesnake Reuse Pit\MXD\212C-MD-01974 RATTLESNAKE FIG 4.mxd




BOTTOM HOLE SAMPLE LOCATIONS
SIDEWALL SAMPLE LOCATION
BURIED PIPELINE
FENCELINE
1.5' EXCAVATED AREA
2.0' EXCAVATED AREA
3.0' EXCAVATED AREA

*Source:* "New Mexico". 32° 1'21.72"N, 103°34'6.96"W. **Google Earth**. February 02,2019.May 28, 2020

N
W
E
S

0 27.5 55
**Approximate Scale in Feet**

EXCAVATION AREA & DEPTH MAP
RATTLESNAKE REUSE PIT
Property Located at coordinates 32.02368°, -103.56844°
LEA COUNTY, NEW MEXICO

eog resources

TETRA TECH
901 W Wall St Ste. 100,
Midland, TX 79701
(432) 682-4559

Project #: 212C-MD-01974
Date: 08-27-2020
Drawn By: MLM

FIGURE 4A

Date: 8/28/2020 Document Path: H:\GIS\EOG RESOURCES\212C-MD-01300 (01974) EOG Rattlesnake Reuse Pit\MXD\212C-MD-01974 RATTLESNAKE FIG. 4.mxd

# Tables

# Table 1
## EOG Resources
## Rattlesnake Reuse Pit
## Lea County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth (in) | Soil Status | | TPH (mg/kg) | | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | In-Situ | Removed | GRO | DRO | ORO | Total | | | | | | |
| **AH-1** | 10/17/2019 | 0-1 | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 48.5 |
| **AH-2** | 10/17/2019 | 0-1 | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <5.05 |
| **AH-3** | 10/17/2019 | 0-1 | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.00 |
| **AH-4** | 10/17/2019 | 0-1 | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <5.00 |
| **AH-5** | 10/17/2019 | 0-1 | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <5.00 |
| | " | 1-1.5 | - | X | | - | - | - | - | - | - | - | - | - | <4.98 |
| **AH-6** | 10/17/2019 | 0-1 | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.03 |
| | " | 1-1.5 | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <5.01 |
| | " | 2-2.5 | - | X | | - | - | - | - | - | - | - | - | - | 10.7 |
| **AH-7** | 10/17/2019 | 0-1 | - | | X | <49.8 | 465 | 87.1 | **552** | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 20.9 |
| | " | 1-1.5 | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.41 |
| | " | 2-2.5 | - | | X | - | - | - | - | | | | | | <4.99 |
| **AH-8** | 10/17/2019 | 0-1 | - | | X | <50.0 | 1,160 | 342 | **1,500** | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 10.8 |
| | " | 1-1.5 | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 10.9 |
| | " | 2-2.5 | - | | X | - | - | - | - | - | - | - | - | - | 8.74 |
| **AH-9** | 10/17/2019 | 0-1 | - | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **11,500** |
| | " | 1-1.5 | - | | X | <49.9 | 449 | 93.1 | **542** | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **4,510** |
| | " | 2-2.5 | - | | X | - | - | - | - | - | - | - | - | - | 256 |
| **AH-10** | 10/17/2019 | 0-1 | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 25.9 |
| | " | 1-1.5 | - | X | | - | - | - | - | - | - | - | - | - | 15.2 |
| **AH-11** | 10/17/2019 | 0-1 | - | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,340** |
| | " | 1-1.5 | - | | X | - | - | - | - | - | - | - | - | - | **680** |
| **AH-12** | 10/17/2019 | 0-1 | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 302 |
| | " | 1-1.5 | - | | X | - | - | - | - | - | - | - | - | - | 320 |
| **AH-13** | 10/18/2019 | 0-1 | - | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | **1,790** |
| **AH-14** | 10/18/2019 | 0-1 | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | **11,800** |
| **AH-15** | 10/18/2019 | 0-1 | - | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **3,160** |
| **AH-16** | 10/18/2019 | 0-1 | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **2,810** |
| **AH-17** | 10/18/2019 | 0-1 | - | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **3,790** |

# Table 1
## EOG Resources
## Rattlesnake Reuse Pit
## Lea County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth (in) | Soil Status | | TPH (mg/kg) | | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | In-Situ | Removed | GRO | DRO | ORO | Total | | | | | | |
| **AH-18** | 10/18/2019 | 0-1 | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **3,030** |
| **AH-19** | 10/18/2019 | 0-1 | - | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **6,310** |
| **AH-20** | 10/18/2019 | 0-1 | - | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **11,500** |
| **AH-21** | 10/18/2019 | 0-1 | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 105 |

( - ) Not Analyzed

Excavated

Released to Imaging: 7/15/2021 9:51:59 AM
Received by OCD: 6/29/2021 10:26:12 AM

**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-1** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 160 |
| **Bottomhole-2** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 48 |
| **Bottomhole-3** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **800** |
| **Bottomhole-4** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 16 |
| **Bottomhole-5** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 304 |
| **Bottomhole-6** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 96 |
| **Bottomhole-7** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **1,070** |
| **Bottomhole-8** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 80 |
| **Bottomhole-9** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 384 |
| **Bottomhole-10** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 16 |
| **Bottomhole-11** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 16 |
| **Bottomhole-12** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 32 |
| **Bottomhole-13** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 32 |
| **Bottomhole-14** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **2,050** |
| **Bottomhole-15** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **2,000** |
| **Bottomhole-16** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **3,520** |
| **Bottomhole-17** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 256 |
| **Bottomhole-18** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 448 |
| **Bottomhole-19** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **1,410** |
| **Bottomhole-20** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **1,950** |
| **Bottomhole-21** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **640** |
| **Bottomhole-22** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **896** |
| **Bottomhole-23** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 528 |
| **Bottomhole-24** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 288 |
| **Bottomhole-25** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 400 |
| **Bottomhole-26** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **784** |
| **Bottomhole-27** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 48 |
| **Bottomhole-28** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 512 |
| **Bottomhole-29** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 16 |
| **Bottomhole-30** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 544 |
| **Bottomhole-31** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 96 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-32** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 96 |
| **Bottomhole-33** | 2/26/2020 | - | 4.5' BEB | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 224 |
| **Bottomhole-34** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 226 |
| **Bottomhole-35** | 4/3/2020 | - | 4.5' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 464 |
| **Bottomhole-36** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 290 |
| **Bottomhole-37** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **881** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 203 |
| **Bottomhole-38** | 4/3/2020 | - | 4.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 288 |
| **Bottomhole-39** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 413 |
| **Bottomhole-40** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 336 |
| **Bottomhole-41** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 239 |
| **Bottomhole-42** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 517 |
| **Bottomhole-43** | 4/3/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **1,160** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 240 |
| **Bottomhole-44** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **637** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | 0.00202 | <0.00200 | <0.00200 | 0.00202 | 200 |
| **Bottomhole-45** | 4/3/2020 | - | 4.5' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,310** |
| | 5/5/2020 | - | 5.0' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 178 |
| **Bottomhole-46** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 195 |
| **Bottomhole-47** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 218 |
| **Bottomhole-48** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 183 |
| **Bottomhole-49** | 4/3/2020 | - | 4.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 80.4 |
| **Bottomhole-50** | 4/3/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **2,390** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 207 |
| **Bottomhole-51** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **2,190** |
| | 5/5/2020 | - | 5.0' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 181 |
| **Bottomhole-52** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **5,570** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 228 |
| **Bottomhole-53** | 4/3/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **4,590** |
| | 5/5/2020 | - | 5.0' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | 0.00662 | 0.00528 | 0.00615 | 0.0137 | 0.0318 | 235 |
| **Bottomhole-54** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **1,890** |
| | 5/5/2020 | - | 5.0' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 233 |
| **Bottomhole-55** | 4/3/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **2,380** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 242 |
| **Bottomhole-56** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **2,100** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 236 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-57** | 4/3/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,410** |
| | 5/5/2020 | - | 5.0' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 213 |
| **Bottomhole-58** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 24.9 |
| **Bottomhole-59** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **613** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 138 |
| **Bottomhole-60** | 4/3/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **4,720** |
| | 5/5/2020 | - | 5.0' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | 0.00209 | <0.00198 | <0.00198 | 0.00209 | 154 |
| **Bottomhole-61** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **3,450** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 159 |
| **Bottomhole-62** | 4/3/2020 | - | 4.5' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 161 |
| **Bottomhole-63** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 427 |
| **Bottomhole-64** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 524 |
| **Bottomhole-65** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | 53.5 | <50.0 | 53.5 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,150** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 152 |
| **Bottomhole-66** | 4/3/2020 | - | 4.5' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **1,380** |
| | 5/5/2020 | - | 5.0' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 142 |
| **Bottomhole-67** | 4/3/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **3,220** |
| | 5/5/2020 | - | 5.0' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 205 |
| **Bottomhole-68** | 4/3/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **1,080** |
| | 5/5/2020 | - | 5.0' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 154 |
| **Bottomhole-69** | 4/3/2020 | - | 4.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 567 |
| **Bottomhole-70** | 4/3/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | **2,560** |
| | 5/5/2020 | - | 5.0' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 164 |
| **Bottomhole-71** | 4/14/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **2,350** |
| | 5/1/2020 | - | 3' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **817** |
| | 5/12/2020 | - | 3.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 238 |
| **Bottomhole-72** | 4/14/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **2,470** |
| | 5/1/2020 | - | 3' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | 0.00448 | <0.00200 | <0.00200 | 0.00448 | **1170** |
| | 5/12/2020 | - | 3.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 118 |
| **Bottomhole-73** | 4/14/2020 | - | 2' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **1,240** |
| | 5/1/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 229 |
| **Bottomhole-74** | 4/14/2020 | - | 2' BEB | | X | <50.0 | 77.9 | <50.0 | 77.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **3,440** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 261 |
| **Bottomhole-75** | 4/14/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **700** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 363 |
| **Bottomhole-76** | 4/14/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 261 |
| **Bottomhole-77** | 4/14/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 411 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-78** | 4/14/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **1,100** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 101 |
| **Bottomhole-79** | 4/14/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **2,240** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 280 |
| **Bottomhole-80** | 4/14/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 337 |
| **Bottomhole-81** | 4/14/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 332 |
| **Bottomhole-82** | 4/14/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | **760** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 134 |
| **Bottomhole-83** | 4/14/2020 | - | 2' BEB | | X | <50.0 | 72.1 | <50.0 | 72.1 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **2,400** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 276 |
| **Bottomhole-84** | 4/14/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **2,070** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 231 |
| **Bottomhole-85** | 4/14/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 203 |
| **Bottomhole-86** | 4/14/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 280 |
| **Bottomhole-87** | 4/14/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 221 |
| **Bottomhole-88** | 4/14/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 390 |
| **Bottomhole-89** | 4/14/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,470** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 167 |
| **Bottomhole-90** | 4/15/2020 | - | 2' BEB | | X | <50.0 | 65.3 | <50.0 | 65.3 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **6,320** |
| | 5/1/2020 | - | 3' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **865** |
| | 5/12/2020 | - | 3.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 238 |
| **Bottomhole-91** | 4/15/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **1,360** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 157 |
| **Bottomhole-92** | 4/15/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 427 |
| **Bottomhole-93** | 4/15/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **716** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 26.0 |
| **Bottomhole-94** | 4/15/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 580 |
| **Bottomhole-95** | 4/15/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **775** |
| | 5/1/2020 | - | 5.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 27.0 |
| **Bottomhole-96** | 4/15/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **2,180** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 24.9 |
| **Bottomhole-97** | 4/15/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **2,720** |
| | 5/1/2020 | - | 3' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **2,720** |
| | 5/12/2020 | - | 3.5' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 405 |
| **Bottomhole-98** | 4/15/2020 | - | 2' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **3,290** |
| | 5/1/2020 | - | 5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 124 |

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**EOG Resources**
**Rattlesnake Reuse Pit**
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| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-99** | 4/15/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 60.5 |
| **Bottomhole-100** | 4/15/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 44.7 |
| **Bottomhole-101** | 4/15/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 573 |
| **Bottomhole-102** | 4/15/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 461 |
| **Bottomhole-103** | 4/15/2020 | - | 4.5' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **756** |
| | 5/1/2020 | - | 5.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 27.7 |
| **Bottomhole-104** | 4/15/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | 0.00199 | <0.00199 | <0.00199 | 0.00199 | 540 |
| **Bottomhole-105** | 4/15/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,880** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 241 |
| **Bottomhole-106** | 4/15/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **855** |
| | 5/1/2020 | - | 5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 96.3 |
| **Bottomhole-107** | 4/15/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,860** |
| | 5/1/2020 | - | 5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **946** |
| | 5/12/2020 | - | 5.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 120 |
| **Bottomhole-108** | 4/15/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **816** |
| | 5/1/2020 | - | 5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 204 |
| **Bottomhole-109** | 4/15/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 246 |
| **Bottomhole-110** | 4/15/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 344 |
| **Bottomhole-111** | 4/15/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **2,540** |
| | 5/1/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 207 |
| **Bottomhole-112** | 4/15/2020 | - | 2' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **5,100** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 10.5 |
| **Bottomhole-113** | 4/15/2020 | - | 2' BEB | | X | <50.0 | **246** | <50.0 | **246** | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **733** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 69.1 |
| **Bottomhole-114** | 4/15/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **641** |
| | 5/1/2020 | - | 5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 86.3 |
| **Bottomhole-115** | 4/15/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **1,390** |
| | 5/1/2020 | - | 5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **953** |
| | 5/12/2020 | - | 5.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 23.4 |
| **Bottomhole-116** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 119 |
| **Bottomhole-117** | 4/16/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 94.5 |
| **Bottomhole-118** | 4/16/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 268 |
| **Bottomhole-119** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **1,220** |
| | 5/1/2020 | - | 5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,860** |
| | 5/12/2020 | - | 5.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 23.8 |

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| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-120** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **833** |
| | 5/1/2020 | - | 3' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **1,860** |
| | 5/12/2020 | - | 3.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 108 |
| **Bottomhole-121** | 4/16/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 367 |
| **Bottomhole-122** | 4/16/2020 | - | 4.5' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **2,230** |
| | 5/1/2020 | - | 5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,010** |
| | 5/12/2020 | - | 5.5' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 269 |
| **Bottomhole-123** | 4/16/2020 | - | 4.5' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 327 |
| **Bottomhole-124** | 4/16/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 385 |
| **Bottomhole-125** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 153 |
| **Bottomhole-126** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 364 |
| **Bottomhole-127** | 4/16/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | **6,920** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 67.0 |
| **Bottomhole-128** | 4/16/2020 | - | 4.5' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **2,180** |
| | 5/1/2020 | - | 6.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 143 |
| **Bottomhole-129** | 4/16/2020 | - | 4.5' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **1,180** |
| | 5/1/2020 | - | 6.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 160 |
| **Bottomhole-130** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | **1,610** |
| | 5/1/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 217 |
| **Bottomhole-131** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 400 |
| **Bottomhole-132** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 373 |
| **Bottomhole-133** | 4/16/2020 | - | 2' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **615** |
| | 5/11/2020 | - | 2.5' BEB | X | | <50.1 | <50.1 | <50.1 | <50.1 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 32.1 |
| **Bottomhole-134** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **850** |
| | 5/11/2020 | - | 2.5' BEB | X | | <50.3 | <50.3 | <50.3 | <50.3 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <9.94 |
| **Bottomhole-135** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **1,580** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 32.8 |
| **Bottomhole-136** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **621** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 211 |
| **Bottomhole-137** | 4/16/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 362 |
| **Bottomhole-138** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 43.6 |
| **Bottomhole-139** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 318 |
| **Bottomhole-140** | 4/16/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 532 |
| **Bottomhole-141** | 4/16/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **10,800** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 22.2 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-142** | 4/16/2020 | - | 2' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **1,190** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 406 |
| **Bottomhole-143** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **7,740** |
| | 5/1/2020 | - | 3' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **837** |
| | 5/12/2020 | - | 3.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 249 |
| **Bottomhole-144** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **1,200** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 11.4 |
| **Bottomhole-145** | 4/16/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 57.8 |
| **Bottomhole-146** | 4/16/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 229 |
| **Bottomhole-147** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 308 |
| **Bottomhole-148** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | 0.0146 | 0.00665 | 0.00376 | 0.00951 | 0.0345 | 455 |
| **Bottomhole-149** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | 0.00989 | 0.00389 | 0.00201 | <0.00201 | 0.0158 | **662** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 86.5 |
| **Bottomhole-150** | 4/16/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **793** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 33.7 |
| **Bottomhole-151** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 560 |
| **Bottomhole-152** | 4/16/2020 | - | 2' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **2,220** |
| | 5/11/2020 | - | 2.5' BEB | X | | <50.1 | <50.1 | <50.1 | <50.1 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 46.3 |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 398 |
| **Bottomhole-153** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 108 |
| **Bottomhole-154** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 122 |
| **Bottomhole-155** | 4/16/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 119 |
| **Bottomhole-156** | 4/16/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 314 |
| **Bottomhole-157** | 4/16/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 312 |
| **Bottomhole-158** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **1,400** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 89.2 |
| **Bottomhole-159** | 4/16/2020 | - | 2' BEB | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **656** |
| | 5/1/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 37.9 |
| **Bottomhole-160** | 4/16/2020 | - | 4.5' BEB | | X | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **987** |
| | 5/1/2020 | - | 5.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 49.1 |
| **Bottomhole-161** | 4/16/2020 | - | 2' BEB | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **2,460** |
| | 5/1/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 71.2 |
| **Bottomhole-162** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 529 |
| **Bottomhole-163** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 69.8 |
| **Bottomhole-164** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | 0.00203 | <0.00199 | <0.00199 | 0.00203 | 117 |
| **Bottomhole-165** | 4/17/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 388 |
| **Bottomhole-166** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 214 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-167** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 392 |
| **Bottomhole-168** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 179 |
| **Bottomhole-169** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 386 |
| **Bottomhole-170** | 5/12/2020 | - | 2.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 233 |
| **Bottomhole-171** | 4/17/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 176 |
| **Bottomhole-172** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | 0.00244 | <0.00201 | <0.00201 | 0.00244 | 199 |
| **Bottomhole-173** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | 0.00209 | <0.00199 | <0.00199 | 0.00209 | 181 |
| **Bottomhole-174** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | 0.00201 | <0.00198 | <0.00198 | 0.00201 | 160 |
| **Bottomhole-175** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 166 |
| **Bottomhole-176** | 5/11/2020 | - | 2' BEB | X | | <50.2 | <50.2 | <50.2 | <50.2 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 120 |
| **Bottomhole-177** | 5/11/2020 | - | 2' BEB | X | | <50.1 | <50.1 | <50.1 | <50.1 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 32.9 |
| **Bottomhole-178** | 5/11/2020 | - | 2.5' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 53.1 |
| **Bottomhole-179** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 228 |
| **Bottomhole-180** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | 0.00219 | <0.00198 | <0.00198 | 0.00219 | 144 |
| **Bottomhole-181** | 5/11/2020 | - | 2' BEB | X | | <50.1 | <50.1 | <50.1 | <50.1 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 72.4 |
| **Bottomhole-182** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 162 |
| **Bottomhole-183** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 188 |
| **Bottomhole-184** | 5/11/2020 | - | 2' BEB | X | | <50.2 | <50.2 | <50.2 | <50.2 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 148 |
| **Bottomhole-185** | 5/11/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 100 |
| **Bottomhole-186** | 5/11/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 47.9 |
| **Bottomhole-187** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 125 |
| **Bottomhole-188** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | 0.00274 | <0.00200 | <0.00200 | 0.00274 | 358 |
| **Bottomhole-189** | 4/17/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | 0.00260 | <0.00200 | <0.00200 | 0.00260 | 429 |
| **Bottomhole-190** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 248 |
| **Bottomhole-191** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 304 |
| **Bottomhole-192** | 5/11/2020 | - | 2' BEB | X | | <50.1 | <50.1 | <50.1 | <50.1 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 35.1 |
| **Bottomhole-193** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 420 |
| **Bottomhole-194** | 5/11/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 171 |
| **Bottomhole-195** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 330 |
| **Bottomhole-196** | 4/17/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 129 |
| | 5/11/2020 | - | 2' BEB | X | | <50.1 | <50.1 | <50.1 | <50.1 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 85.7 |
| **Bottomhole-197** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 89 |
| | 5/11/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 57.7 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-198** | 4/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 77.6 |
| **Bottomhole-199** | 4/17/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 124 |
| **Bottomhole-200** | 4/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 246 |
| **Bottomhole-201** | 5/11/2020 | - | 2.5' BEB | X | | <50.1 | <50.1 | <50.1 | <50.1 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 317 |
| **Bottomhole-202** | 4/21/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 348 |
| **Bottomhole-203** | 4/21/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 183 |
| **Bottomhole-204** | 4/21/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 203 |
| **Bottomhole-205** | 4/21/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 379 |
| **Bottomhole-206** | 4/21/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 240 |
| **Bottomhole-207** | 4/21/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 41.8 |
| **Bottomhole-208** | 4/21/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 297 |
| **Bottomhole-209** | 4/21/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 496 |
| **Bottomhole-210** | 4/21/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 273 |
| **Bottomhole-211** | 4/21/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 180 |
| **Bottomhole-212** | 4/21/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 550 |
| **Bottomhole-213** | 4/21/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 222 |
| **Bottomhole-214** | 4/21/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 214 |
| **Bottomhole-215** | 4/21/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 201 |
| **Bottomhole-216** | 4/21/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 110 |
| **Bottomhole-217** | 4/21/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 59.3 |
| **Bottomhole-218** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 176 |
| **Bottomhole-219** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 141 |
| **Bottomhole-220** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 67.2 |
| **Bottomhole-221** | 4/22/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 256 |
| **Bottomhole-222** | 4/22/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 304 |
| **Bottomhole-223** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 101 |
| **Bottomhole-224** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 144 |
| **Bottomhole-225** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 264 |
| **Bottomhole-226** | 4/22/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 365 |
| **Bottomhole-227** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 181 |
| **Bottomhole-228** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 166 |
| **Bottomhole-229** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 175 |
| **Bottomhole-230** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 385 |
| **Bottomhole-231** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 368 |
| **Bottomhole-232** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 327 |
| **Bottomhole-233** | 4/22/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 221 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-234** | 4/22/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 181 |
| **Bottomhole-235** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 180 |
| **Bottomhole-236** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 188 |
| **Bottomhole-237** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 183 |
| **Bottomhole-238** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 182 |
| **Bottomhole-239** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 230 |
| **Bottomhole-240** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 184 |
| **Bottomhole-241** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 151 |
| **Bottomhole-242** | 4/22/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 50.1 |
| **Bottomhole-243** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 119 |
| **Bottomhole-244** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 248 |
| **Bottomhole-245** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 155 |
| **Bottomhole-246** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 409 |
| **Bottomhole-247** | 4/22/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 372 |
| **Bottomhole-248** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 488 |
| **Bottomhole-249** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 217 |
| **Bottomhole-250** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 362 |
| **Bottomhole-251** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 321 |
| **Bottomhole-252** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 153 |
| **Bottomhole-253** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 425 |
| **Bottomhole-254** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 185 |
| **Bottomhole-255** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 415 |
| **Bottomhole-256** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 256 |
| **Bottomhole-257** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 251 |
| **Bottomhole-258** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 178 |
| **Bottomhole-259** | 4/22/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 343 |
| **Bottomhole-260** | 4/22/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 318 |
| **Bottomhole-261** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 34.1 |
| **Bottomhole-262** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 19.5 |
| **Bottomhole-263** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 86.8 |
| **Bottomhole-264** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 79.6 |
| **Bottomhole-265** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 45.5 |
| **Bottomhole-266** | 6/12/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 41.3 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-267** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 15.0 |
| **Bottomhole-268** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 46.2 |
| **Bottomhole-269** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 62.3 |
| **Bottomhole-270** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 107 |
| **Bottomhole-271** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 35.1 |
| **Bottomhole-272** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 84.8 |
| **Bottomhole-273** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 25.2 |
| **Bottomhole-274** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 47.2 |
| **Bottomhole-275** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 82.8 |
| **Bottomhole-276** | 6/12/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 61.8 |
| **Bottomhole-277** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 56.8 |
| **Bottomhole-278** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 27.9 |
| **Bottomhole-279** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 20.2 |
| **Bottomhole-280** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 28.7 |
| **Bottomhole-281** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 50.7 |
| **Bottomhole-282** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 27.9 |
| **Bottomhole-283** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 64.3 |
| **Bottomhole-284** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 31.2 |
| **Bottomhole-285** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 19.0 |
| **Bottomhole-286** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 85.2 |
| **Bottomhole-287** | 6/12/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 99.5 |
| **Bottomhole-288** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 13.3 |
| **Bottomhole-289** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 12.0 |
| **Bottomhole-290** | 6/12/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 75.0 |
| **Bottomhole-291** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 10.7 |
| **Bottomhole-292** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 21.4 |
| **Bottomhole-293** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 10.1 |
| **Bottomhole-294** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 10.9 |
| **Bottomhole-295** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 10.7 |
| **Bottomhole-296** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 17.4 |
| **Bottomhole-297** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 80.6 |
| **Bottomhole-298** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 84.7 |
| **Bottomhole-299** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 84.0 |
| **Bottomhole-300** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 79.0 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-301** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 10.8 |
| **Bottomhole-302** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.000990 | <0.000990 | 113 |
| **Bottomhole-303** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.000996 | <0.000996 | 94.3 |
| **Bottomhole-304** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.000998 | <0.000998 | 90.8 |
| **Bottomhole-305** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.000998 | <0.000998 | 17.6 |
| **Bottomhole-306** | 6/12/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.000998 | <0.000998 | 19.8 |
| **Bottomhole-307** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 19.9 |
| **Bottomhole-308** | 6/12/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 90.2 |
| **Bottomhole-309** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 34.7 |
| **Bottomhole-310** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 31.8 |
| **Bottomhole-311** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 19.5 |
| **Bottomhole-312** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 23.8 |
| **Bottomhole-313** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 32.7 |
| **Bottomhole-314** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 18.6 |
| **Bottomhole-315** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 34.6 |
| **Bottomhole-316** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 37.0 |
| **Bottomhole-317** | 6/12/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 37.9 |
| **Bottomhole-318** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 34.7 |
| **Bottomhole-319** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 38.8 |
| **Bottomhole-320** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 34.7 |
| **Bottomhole-321** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 19.1 |
| **Bottomhole-322** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 19.0 |
| **Bottomhole-323** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 27.6 |
| **Bottomhole-324** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 19.6 |
| **Bottomhole-325** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 31.5 |
| **Bottomhole-326** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 35.2 |
| **Bottomhole-327** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 43.7 |
| **Bottomhole-328** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 36.6 |
| **Bottomhole-329** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 21.2 |
| **Bottomhole-330** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 50.7 |
| **Bottomhole-331** | 6/12/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 20.3 |
| **Bottomhole-332** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 18.6 |
| **Bottomhole-333** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 9.26 |
| **Bottomhole-334** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 10.2 |
| **Bottomhole-335** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 10.2 |

Released to Imaging: 7/15/2021 9:51:59 AM

Received by OCD: 6/29/2021 10:26:12 AM

**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-336** | 6/12/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 9.64 |
| **Bottomhole-337** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 11.0 |
| **Bottomhole-338** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 10.2 |
| **Bottomhole-339** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 9.99 |
| **Bottomhole-340** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 9.46 |
| **Bottomhole-341** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 9.68 |
| **Bottomhole-342** | 6/12/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 10.3 |
| **Bottomhole-343** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 9.89 |
| **Bottomhole-344** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 11.0 |
| **Bottomhole-345** | 6/12/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 10.0 |
| **Bottomhole-346** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 10.1 |
| **Bottomhole-347** | 6/12/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 11.7 |
| **Bottomhole-348** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 10.4 |
| **Bottomhole-349** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 10.1 |
| **Bottomhole-350** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 9.88 |
| **Bottomhole-351** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.97 |
| **Bottomhole-352** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 9.78 |
| **Bottomhole-353** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 9.85 |
| **Bottomhole-354** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 9.38 |
| **Bottomhole-355** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 9.09 |
| **Bottomhole-356** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 9.65 |
| **Bottomhole-357** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.83 |
| **Bottomhole-358** | 6/12/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 9.16 |
| **Bottomhole-359** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 9.68 |
| **Bottomhole-360** | 6/12/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 9.00 |
| **Bottomhole-361** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 9.12 |
| **Bottomhole-362** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 9.36 |
| **Bottomhole-363** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 8.57 |
| **Bottomhole-364** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <4.95 |
| **Bottomhole-365** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <5.02 |
| **Bottomhole-366** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <4.99 |
| **Bottomhole-367** | 6/12/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <5.04 |
| **Bottomhole-368** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <4.95 |
| **Bottomhole-369** | 6/12/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <4.95 |
| **Bottomhole-370** | 6/12/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <4.95 |
| **Bottomhole-371** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 58.0 |
| **Bottomhole-372** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 52.8 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-373** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 53.4 |
| **Bottomhole-374** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 54.0 |
| **Bottomhole-375** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 55.7 |
| **Bottomhole-376** | 6/17/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 55.0 |
| **Bottomhole-377** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 69.4 |
| **Bottomhole-378** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 48.2 |
| **Bottomhole-379** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 97.9 |
| **Bottomhole-380** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 48.7 |
| **Bottomhole-381** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 43.0 |
| **Bottomhole-382** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 76.9 |
| **Bottomhole-383** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 76.9 |
| **Bottomhole-384** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 68.0 |
| **Bottomhole-385** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 77.8 |
| **Bottomhole-386** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 84.3 |
| **Bottomhole-387** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 73.4 |
| **Bottomhole-388** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 5.64 |
| **Bottomhole-389** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 5.19 |
| **Bottomhole-390** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 5.23 |
| **Bottomhole-391** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 5.20 |
| **Bottomhole-392** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <4.98 |
| **Bottomhole-393** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <5.00 |
| **Bottomhole-394** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 6.05 |
| **Bottomhole-395** | 6/17/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 40.9 |
| **Bottomhole-396** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 45.1 |
| **Bottomhole-397** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 25.4 |
| **Bottomhole-398** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 47.4 |
| **Bottomhole-399** | 6/17/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 26.1 |
| **Bottomhole-400** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 44.4 |
| **Bottomhole-401** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 55.4 |
| **Bottomhole-402** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 30.7 |
| **Bottomhole-403** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 20.7 |
| **Bottomhole-404** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 13.1 |
| **Bottomhole-405** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 43.7 |
| **Bottomhole-406** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 64.3 |
| **Bottomhole-407** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 13.3 |

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Received by OCD: 6/29/2021 10:26:12 AM

**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **Bottomhole-408** | 6/17/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 17.3 |
| **Bottomhole-409** | 6/17/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 13.5 |
| **Bottomhole-410** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 44.1 |
| **Bottomhole-411** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 46.0 |
| **Bottomhole-412** | 7/7/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 45.5 |
| **Bottomhole-413** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 16.8 |
| **Bottomhole-414** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 9.22 |
| **Bottomhole-415** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 10.5 |
| **Bottomhole-416** | 7/7/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 13.8 |
| **Bottomhole-417** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 8.33 |
| **Bottomhole-418** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.89 |
| **Bottomhole-419** | 7/7/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 46.5 |
| **Bottomhole-420** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 35.7 |
| **Bottomhole-421** | 7/7/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 47.9 |
| **Bottomhole-422** | 7/7/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 49.3 |
| **Bottomhole-423** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 15.8 |
| **Bottomhole-424** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 48.2 |
| **Bottomhole-425** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 23.1 |
| **Bottomhole-426** | 7/7/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 26.7 |
| **Bottomhole-427** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.58 |
| **Bottomhole-428** | 7/7/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 46.2 |
| **Bottomhole-429** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 20.9 |
| **Bottomhole-430** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 35.3 |
| **Bottomhole-431** | 7/7/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 63.0 |
| **Bottomhole-432** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 32.2 |
| **Bottomhole-433** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 28.6 |
| **Bottomhole-434** | 7/7/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 25.6 |
| **Bottomhole-435** | 7/7/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 34.8 |
| **Bottomhole-436** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 12.2 |
| **Bottomhole-437** | 7/7/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 23.3 |
| **Bottomhole-438** | 7/7/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 55.1 |
| **Bottomhole-439** | 7/7/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 11.5 |
| **Bottomhole-440** | 7/10/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 9.98 |
| **Bottomhole-441** | 7/10/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 9.00 |
| **Bottomhole-442** | 7/10/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 9.82 |
| **Bottomhole-443** | 7/10/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.65 |
| **Bottomhole-444** | 7/10/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.40 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | Soil Status | | TPH (mg/kg) | | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | In-Situ | Removed | GRO | DRO | MRO | Total | | | | | | |
| **Bottomhole-445** | 7/10/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.12 |
| **Bottomhole-446** | 7/10/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.51 |
| **Bottomhole-447** | 7/10/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.51 |
| **Bottomhole-448** | 7/10/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 7.83 |
| **Bottomhole-449** | 7/10/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.88 |
| **Bottomhole-450** | 7/10/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.08 |
| **Bottomhole-451** | 7/10/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.35 |
| **Bottomhole-452** | 7/10/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 9.62 |
| **Bottomhole-453** | 7/10/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.35 |
| **Bottomhole-454** | 7/10/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.19 |
| **Bottomhole-455** | 7/10/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 7.98 |
| **Bottomhole-456** | 7/10/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.54 |
| **Bottomhole-457** | 7/10/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 7.95 |
| **Bottomhole-458** | 7/10/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 8.28 |
| **Bottomhole-459** | 7/10/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 7.80 |
| **Bottomhole-460** | 7/10/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.25 |
| **Bottomhole-461** | 7/10/2020 | - | 3' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 7.90 |
| **Bottomhole-462** | 7/10/2020 | - | 3' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 9.74 |
| **Bottomhole-463** | 7/10/2020 | - | 3' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 7.55 |
| **Bottomhole-464** | 7/10/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 8.00 |
| **Bottomhole-465** | 7/10/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 7.33 |
| **Bottomhole-466** | 7/10/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.20 |
| **Bottomhole-467** | 7/10/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 7.99 |
| **Bottomhole-468** | 7/10/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 8.36 |
| **Bottomhole-469** | 7/10/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 8.63 |
| **Bottomhole-470** | 7/10/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.02 |
| **Bottomhole-471** | 7/10/2020 | - | 2' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <4.99 |
| **Bottomhole-472** | 7/10/2020 | - | 2' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.05 |
| **Bottomhole-473** | 7/10/2020 | - | 1.5' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <4.95 |
| **Bottomhole-474** | 7/10/2020 | - | 1.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <5.00 |
| **Bottomhole-475** | 7/10/2020 | - | 1.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <5.00 |
| **Bottomhole-476** | 7/10/2020 | - | 1.5' BEB | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.00 |
| **Bottomhole-477** | 7/10/2020 | - | 1.5' BEB | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <5.02 |
| **Bottomhole-478** | 7/10/2020 | - | 2' BEB | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <5.05 |

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**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **North 1 Sidewall** | 4/3/2020 | - | - | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 48 |
| **North 2 Sidewall** | 4/3/2020 | - | - | X | | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 48 |
| **North 3 Sidewall** | 4/3/2020 | - | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **6,950** |
| | 5/5/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 183 |
| **North 4 Sidewall** | 4/20/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | 0.00354 | <0.00198 | <0.00198 | 0.00354 | 386 |
| **North 5 Sidewall** | 5/12/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 290 |
| **North 6 Sidewall** | 4/20/2020 | - | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **791** |
| | 5/1/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 295 |
| **North 7 Sidewall** | 5/12/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 21.2 |
| **North 8 Sidewall** | 4/20/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 18.5 |
| **North 9 Sidewall** | 5/12/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 275 |
| | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 175 |
| **North 10 Sidewall** | 5/21/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 180 |
| **North 11 Sidewall** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 153 |
| **North 12 Sidewall (1)** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 105 |
| **North 12 Sidewall (2)** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 22.1 |
| **North 13 Sidewall (1)** | 5/21/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 141 |
| **North 13 Sidewall (2)** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <4.98 |
| **North 14 Sidewall (1)** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 238 |
| **North 14 Sidewall (2)** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <4.96 |
| **North 15 Sidewall (1)** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 180 |
| **North 15 Sidewall (2)** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <4.99 |
| **North 16 Sidewall (1)** | 5/21/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 197 |
| **North 16 Sidewall (2)** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <5.03 |
| **North 17 Sidewall (1)** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 153 |
| **North 17 Sidewall (2)** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.05 |
| **East 1 Sidewall** | 4/3/2020 | - | - | | X | <10.0 | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | **672** |
| | 5/12/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 419 |
| **East 2 Sidewall** | 5/5/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | 0.00228 | 0.00251 | <0.00202 | 0.00479 | 149 |
| **East 3 Sidewall** | 4/3/2020 | - | - | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | **9,280** |
| | 5/12/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 199 |
| **East 4 Sidewall** | 4/20/2020 | - | - | | X | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | 0.00204 | <0.00199 | <0.00199 | 0.00204 | **878** |
| | 5/1/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 184 |
| **East 5 Sidewall** | 4/20/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 90.3 |
| **East 6 Sidewall** | 5/12/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 214 |
| **East 7 Sidewall** | 4/20/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 239 |
| **East 8 Sidewall** | 4/20/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | 0.00289 | <0.00200 | <0.00200 | 0.00289 | 441 |
| **East 9 Sidewall** | 4/20/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | 0.00202 | <0.00201 | <0.00201 | 0.00202 | 276 |

Released to Imaging: 7/15/2021 9:51:59 AM
Received by OCD: 6/29/2021 10:26:12 AM

**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **East 10 Sidewall (1)** | 5/21/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 144 |
| **East 10 Sidewall (2)** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <5.00 |
| **East 11 Sidewall (1)** | 5/21/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 188 |
| **East 11 Sidewall (2)** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.03 |
| **East 12 Sidewall (1)** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 124 |
| **East 12 Sidewall (2)** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <4.96 |
| **East 13 Sidewall (1)** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 116 |
| **East 13 Sidewall (2)** | 7/10/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <5.05 |
| **East 14 Sidewall (1)** | 5/21/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 96.6 |
| **East 14 Sidewall (2)** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <4.98 |
| **East 15 Sidewall (1)** | 5/21/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 106 |
| **East 15 Sidewall (2)** | 7/10/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <5.04 |
| **East 16 Sidewall (1)** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 131 |
| **East 16 Sidewall (2)** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <4.95 |
| **East 17 Sidewall (1)** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 111 |
| **East 17 Sidewall (2)** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <4.95 |
| **East Sidewall 18** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <4.95 |
| **East Sidewall 19** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <5.05 |
| **East Sidewall 20** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <4.96 |
| **East Sidewall 21** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 7.34 |
| **South 1 Sidewall** | 4/3/2020 | - | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **600** |
| | 5/12/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 143 |
| **South 2 Sidewall** | 4/3/2020 | - | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **600** |
| | 5/12/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 78.5 |
| **South 3 Sidewall** | 4/20/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00201 | 0.00229 | <0.00201 | <0.00201 | 0.00229 | 10.2 |
| **South 4 Sidewall** | 4/20/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 238 |
| **South 5 Sidewall** | 4/20/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | 0.00295 | <0.00199 | <0.00199 | 0.00295 | 155 |
| **South 6 Sidewall** | 5/12/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 348 |
| | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 134 |
| **South 7 Sidewall** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 125 |
| **South 8 Sidewall** | 5/21/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 121 |
| **South 9 Sidewall** | 5/21/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 105 |

Released to Imaging: 7/15/2021 9:51:59 AM

Received by OCD: 6/29/2021 10:26:12 AM

**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | 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 | MRO | Total | | | | | | |
| **South 10 Sidewall (1)** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 137 |
| **South 10 Sidewall (2)** | 7/10/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 22.7 |
| **South 11 Sidewall (1)** | 5/21/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 160 |
| **South 11 Sidewall (2)** | 7/10/2020 | - | | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <4.99 |
| **South 12 Sidewall** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <5.04 |
| **South 13 Sidewall** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.00 |
| **South 14 Sidewall** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.00 |
| **South 15 Sidewall** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.02 |
| **West 1 Sidewall** | 4/3/2020 | - | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **3,250** |
| | 5/12/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 76.8 |
| **West 2 Sidewall** | 4/3/2020 | - | - | | X | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | **696** |
| | 5/12/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 223 |
| **West 3 Sidewall** | 4/20/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | 0.00328 | <0.00199 | <0.00199 | 0.00328 | 158 |
| **West 4 Sidewall** | 5/12/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 302 |
| **West 5 Sidewall** | 5/12/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 300 |
| **West 6 Sidewall** | 4/20/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 41.7 |
| **West 7 Sidewall** | 5/12/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 116 |
| **West 8 Sidewall** | 4/20/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 67.0 |
| **West 9 Sidewall** | 4/20/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 318 |
| **West 10 Sidewall** | 4/20/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 128 |
| | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | 0.00311 | 0.00234 | <0.00199 | <0.00199 | 0.00545 | 132 |
| **West 11 Sidewall** | 5/21/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 130 |
| **West 12 Sidewall (1)** | 5/21/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 123 |
| **West 12 Sidewall (2)** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 22.8 |
| **West 13 Sidewall** | 5/21/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 116 |
| **West 14 Sidewall** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <4.97 |
| **West 15 Sidewall** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 7.52 |
| **West 16 Sidewall** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 7.89 |

Released to Imaging: 7/15/2021 9:51:59 AM

Received by OCD: 6/29/2021 10:26:12 AM

**Table 2**
**EOG Resources**
**Rattlesnake Reuse Pit**
**Lea County, New Mexico**

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth | Soil Status | | TPH (mg/kg) | | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | In-Situ | Removed | GRO | DRO | MRO | Total | | | | | | |
| **West 17 Sidewall** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 7.41 |
| **West 18 Sidewall** | 7/10/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 7.85 |
| **West 19 Sidewall** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 7.54 |
| **West 20 Sidewall** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 8.24 |
| **West 21 Sidewall** | 7/10/2020 | - | - | X | | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 7.87 |
| **West 22 Sidewall** | 7/10/2020 | - | - | X | | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 8.36 |
| **West 23 Sidewall** | 7/10/2020 | - | - | X | | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 8.48 |

(-) Not Analyzed
Excavated

# Photos

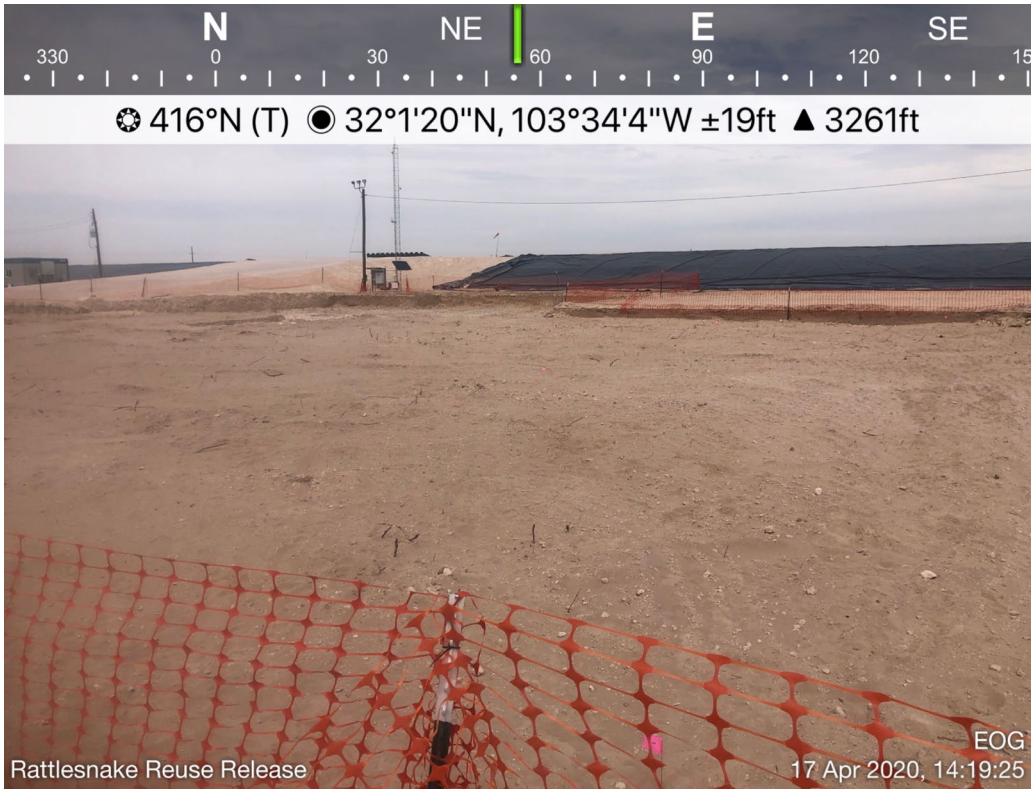
EOG Rattlesnake Reuse Pit

Lea County, New Mexico

TETRA TECH




View East, area of Bottom holes 34-135



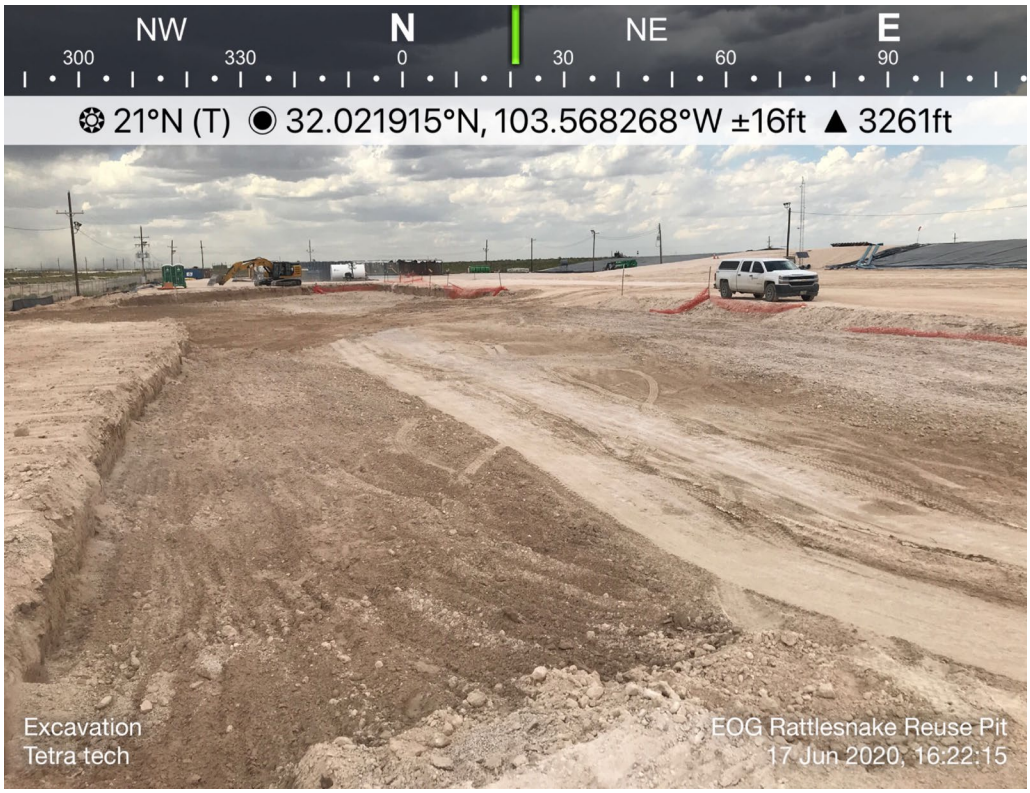

View Northeast, area of Bottom holes 136-201

EOG Rattlesnake Reuse Pit

Lea County, New Mexico




View North, area of Bottom holes 202-260




View North, area of Bottom holes 261-409

EOG Rattlesnake Reuse Pit

Lea County, New Mexico

TETRA TECH




View North, area of Bottom holes 357-409




View South, area of Bottom holes 261-409

EOG Rattlesnake Reuse Pit

Lea County, New Mexico

TETRA TECH




View North, area of Bottom holes 410-445




View South, area of Bottom holes 446-464

EOG Rattlesnake Reuse Pit

Lea County, New Mexico

TETRA TECH




View North, area of Bottom holes 465-477




View South, area of Bottom holes 465-477

# Appendix A

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

| | |
|---|---|
| Incident ID | NRM2008359201 |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party EOG Resources | OGRID 7377 |
| Contact Name Todd Wells | Contact Telephone (432) 686-3613 |
| Contact email Todd_Wells@eogresources.com | Incident # *(assigned by OCD)* |
| Contact mailing address 5509 Champions Drive Midland, TX 79706 | |

## Location of Release Source

Latitude 32.022925° Longitude -103.567480°
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Redhills Rattlesnake Reuse Water Pit | Site Type Reuse Water Pit |
| Date Release Discovered 10/8/19 | API# *(if applicable)* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| M | 22 | 26S | 33E | Lea |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Oliver Kiehne )

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☒ Reuse Water | Volume Released (bbls) 700 | Volume Recovered (bbls) 240 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☒ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release: While pumping from one pit to another, the lay flat line ruptured at a connection head. Approximately 700 bbls of reuse water released from the line and 240 bbls was recovered.

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NRM2008359201 |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☒ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification to the OCD District 1 inbox on 10/11/19. | |

## Initial Response

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

☒ The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Todd Wells Title: Environmental Specialist

Signature: Todd Wells Date: 3-17-20

email: Todd_Wells@eogresources.com Telephone: (432) 686-3613

**OCD Only**

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

# Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

# Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

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

Closure Approved by: Chad Hensley Date: _____

Printed Name: _____ Title: _____

# Appendix B

USGS
science for a changing world

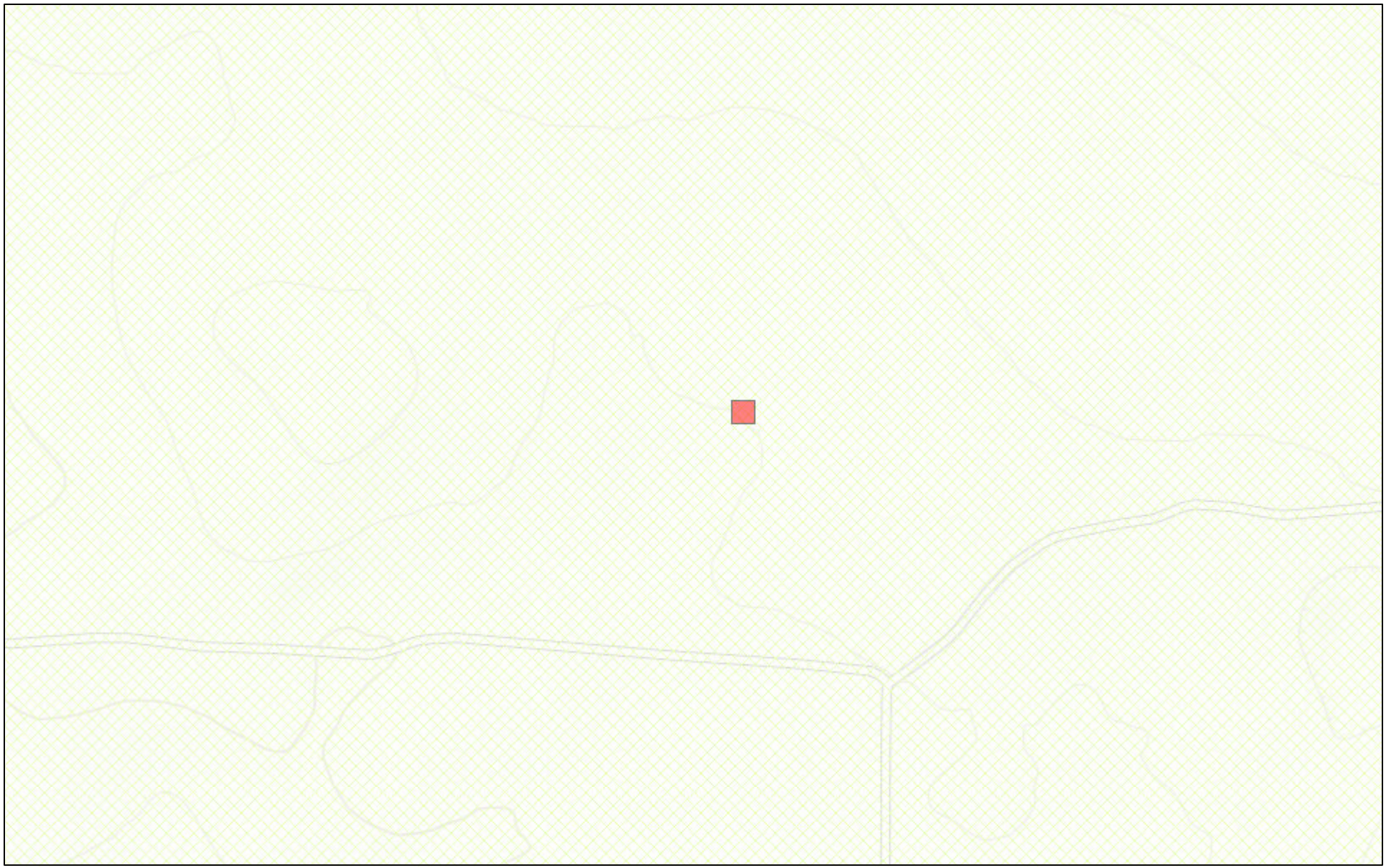
USGS Hom
Contact US
Search US

National Water Information System: Mapper




Site Information

# New Mexico NFHL Data



August 26, 2020

1:9,028

0 0.075 0.15 0.3 mi

0 0.1 0.2 0.4 km

FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,



nmflood.org is made possible through a collaboration with NMDHSEM, EDAC, and FEMA
This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 320059103333501

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

## USGS 320059103333501 26S.33E.27.21112

Lea County, New Mexico
Latitude 32°01'16.0", Longitude 103°33'33.9" NAD83
Land-surface elevation 3,252.00 feet above NGVD29
The depth of the well is 200 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Water-level approval status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1954-07-26 | | D | 79.71 | | | 2 | | U | | U | A |
| 1976-01-08 | | D | 76.52 | | | 2 | | U | | U | A |
| 1986-03-04 | | D | 77.14 | | | 2 | | U | | U | A |
| 1990-11-27 | | D | 76.54 | | | 2 | | U | | U | A |
| 1996-03-05 | | D | 77.39 | | | 2 | | S | | U | A |
| 2001-02-27 | | D | 76.60 | | | 2 | | S | | U | A |
| 2013-01-16 | 11:30 MST | m | | | | | O | S | USGS | S | A |
| 2013-02-14 | 09:50 MDT | m | | | | | P | S | USGS | R | A |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level date-time accuracy | m | Date is accurate to the Minute |
| Water-level accuracy | | Not determined |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Status | O | Obstruction was encountered in the well (no water level was recorded). |
| Status | P | Site was being pumped. |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Measuring agency | USGS | U.S. Geological Survey |
| Source of measurement | R | Reported by person other than the owner, driller, or another government agency. |
| Source of measurement | S | Measured by personnel of reporting agency. |
| Source of measurement | U | Source is unknown. |

| Section | Code | Description |
|---|---|---|
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
**Title: Groundwater for New Mexico: Water Levels**
**URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?**

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2020-08-26 15:52:29 EDT
0.27 0.23 nadww01

# New Mexico Office of the State Engineer
# Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

| POD Number | POD Sub-basin Code | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C 02270 | CUB | LE | 1 | 1 | 2 | 27 | 26S | 33E | 636063 | 3543722 | 150 | 125 | 25 |
| C 02273 | CUB | LE | | 1 | 2 | 21 | 26S | 33E | 634549 | 3545134* | 160 | 120 | 40 |
| C 02285 POD1 | CUB | LE | 1 | 4 | 4 | 03 | 26S | 33E | 636613 | 3548855 | 220 | 220 | 0 |
| C 02286 | CUB | LE | 3 | 4 | 4 | 03 | 26S | 33E | 636470 | 3548714 | 220 | 175 | 45 |
| C 02287 | C | LE | 3 | 4 | 4 | 03 | 26S | 33E | 636427 | 3548708 | 220 | | |
| C 02288 | CUB | LE | 4 | 4 | 4 | 03 | 26S | 33E | 636646 | 3548758 | 220 | 180 | 40 |
| C 02289 | CUB | LE | 4 | 4 | 4 | 03 | 26S | 33E | 636612 | 3548675* | 200 | 160 | 40 |
| C 02290 | CUB | LE | 4 | 4 | 4 | 03 | 26S | 33E | 636538 | 3548770 | 200 | 160 | 40 |
| C 02293 | CUB | LE | 2 | 2 | 1 | 14 | 26S | 33E | 637501 | 3546975 | 200 | 135 | 65 |
| C 02294 | CUB | LE | 4 | 4 | 3 | 11 | 26S | 33E | 637465 | 3547003 | 200 | 145 | 55 |
| C 02295 | CUB | LE | 2 | 2 | 4 | 12 | 26S | 33E | 639865 | 3547624 | 250 | 200 | 50 |
| C 03577 POD1 | CUB | LE | 3 | 3 | 3 | 22 | 26S | 33E | 636010 | 3543771 | 750 | 110 | 640 |
| C 03596 POD1 | C | LE | 3 | 3 | 4 | 22 | 26S | 33E | 636017 | 3543756 | 225 | | |

Average Depth to Water: **157 feet**

Minimum Depth: **110 feet**

Maximum Depth: **220 feet**

**Record Count:** 13

**Basin/County Search:**

**County:** Lea

**PLSS Search:**

**Township:** 26S **Range:** 33E

***UTM location was derived from PLSS - see Help**

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.

# Medium Karst

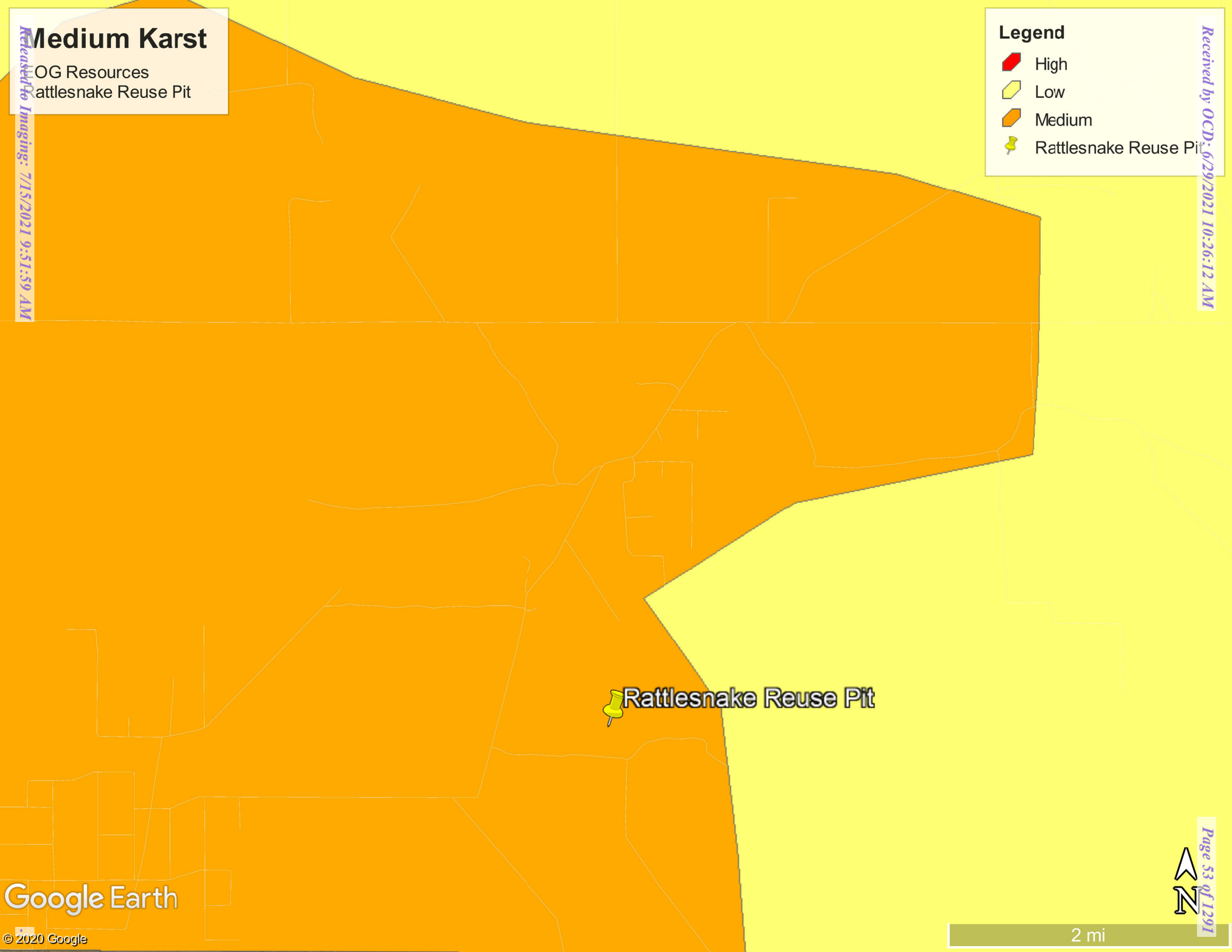
OG Resources
Rattlesnake Reuse Pit

Released to Imaging: 7/15/2021 9:51:59 AM

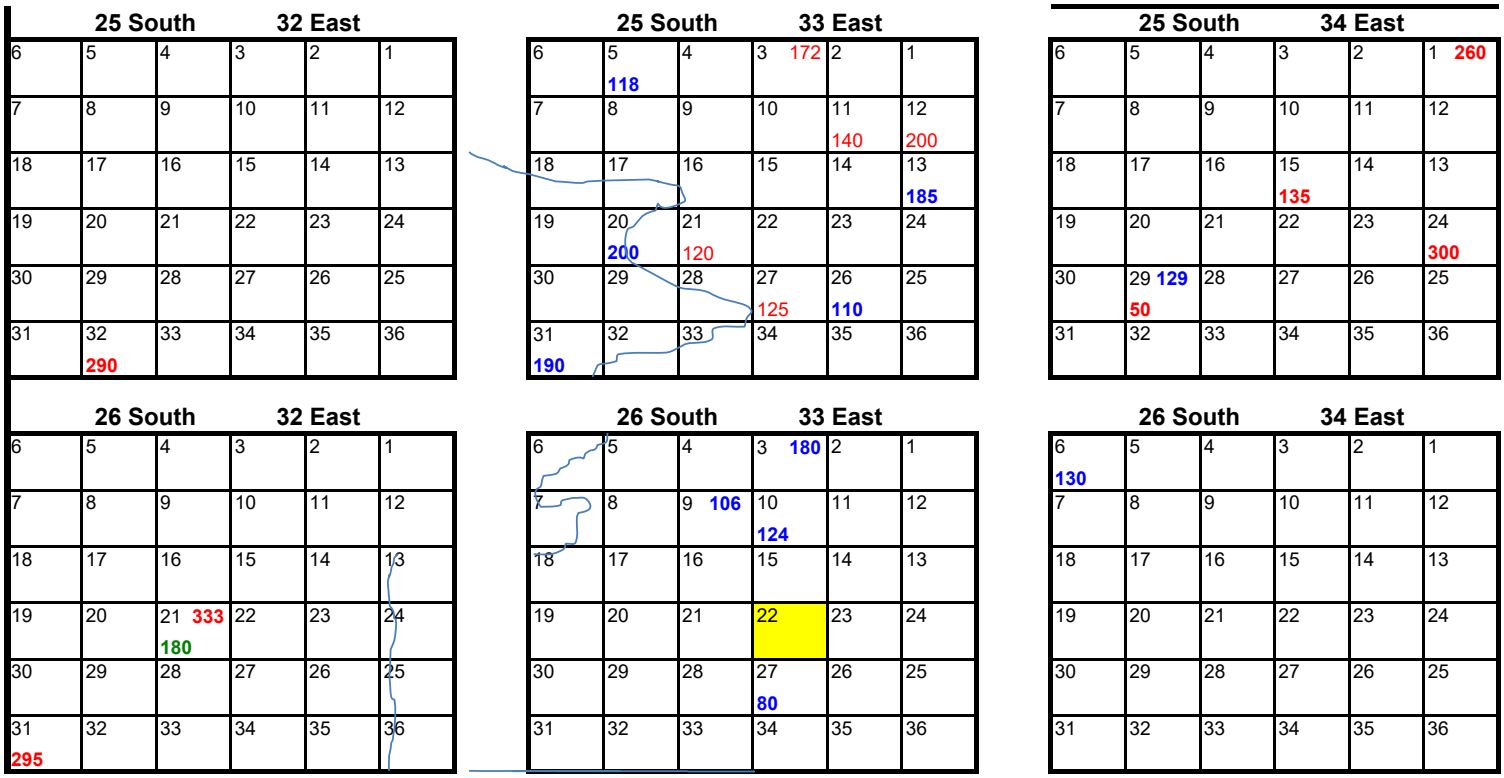
Received by OCD: 6/29/2021 10:26:12 AM

**Legend**

- High
- Low
- Medium
- Rattlesnake Reuse Pit



# Water Well Data
## Average Depth to Groundwater (ft)
## Rattlesnake Reuse Pit
## Lea County, New Mexico




**88** New Mexico State Engineers Well Reports

**105** USGS Well Reports

**90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

**34** NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

**143** NMOCD Groundwater map well location

# Appendix C

# Certificate of Analysis Summary 640558

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Mon Oct-21-19 02:37 pm
**Report Date:** 25-OCT-19
**Project Manager:** Jessica Kramer

| Analysis Requested | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Lab Id:* | 640558-001 | | 640558-002 | | 640558-003 | | 640558-004 | | 640558-005 | | 640558-006 | |
| | *Field Id:* | AH-1 (0'-1') | | AH-2 (0'-0.5') | | AH-3 (0'-0.5') | | AH-4 (0'-1') | | AH-5 (0'-1') | | AH-5 (1'-1.5') | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | Oct-22-19 16:30 | | Oct-22-19 16:30 | | Oct-22-19 16:30 | | Oct-22-19 16:30 | | Oct-22-19 16:30 | | | |
| | *Analyzed:* | Oct-23-19 23:13 | | Oct-23-19 23:33 | | Oct-23-19 23:53 | | Oct-24-19 00:13 | | Oct-24-19 00:33 | | | |
| | *Units/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 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | | |
| Toluene | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | | |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | | |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00403 | 0.00403 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | | |
| o-Xylene | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | | |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | | |
| Total BTEX | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | | |
| **Chloride by EPA 300** | *Extracted:* | Oct-21-19 16:15 | | Oct-21-19 16:15 | | Oct-21-19 16:15 | | Oct-21-19 16:15 | | Oct-21-19 16:15 | | Oct-21-19 16:15 | |
| | *Analyzed:* | Oct-21-19 19:44 | | Oct-21-19 19:49 | | Oct-21-19 19:54 | | Oct-21-19 19:59 | | Oct-21-19 20:04 | | Oct-21-19 20:09 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 48.5 | 5.02 | <5.05 | 5.05 | 8.00 | 5.04 | <5.00 | 5.00 | <5.00 | 5.00 | <4.98 | 4.98 |
| **TPH By SW8015 Mod** | *Extracted:* | Oct-22-19 10:00 | | Oct-22-19 10:00 | | Oct-22-19 10:00 | | Oct-22-19 10:00 | | Oct-22-19 10:00 | | | |
| | *Analyzed:* | Oct-22-19 12:36 | | Oct-22-19 13:39 | | Oct-22-19 14:00 | | Oct-22-19 14:20 | | Oct-22-19 14:41 | | | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | | |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | | |
| Total TPH | | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | | |

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.%

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analysis Summary 640558

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Mon Oct-21-19 02:37 pm
**Report Date:** 25-OCT-19
**Project Manager:** Jessica Kramer

| Analysis Requested | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Lab Id:* | 640558-007 | | 640558-008 | | 640558-009 | | 640558-010 | | 640558-011 | | 640558-012 | |
| | *Field Id:* | AH-6 (0'-1') | | AH-6(1'-1.5') | | AH-6 (2'-2.5') | | AH-7 (0'-1') | | AH-7 (1'-1.5') | | AH-7 (2'-2.5') | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | Oct-22-19 16:30 | | | | Oct-22-19 16:30 | | Oct-22-19 16:30 | | | | Oct-22-19 16:30 | |
| | *Analyzed:* | Oct-24-19 00:53 | | | | Oct-24-19 01:13 | | Oct-24-19 01:34 | | | | Oct-24-19 01:54 | |
| | *Units/RL:* | mg/kg | RL | | | mg/kg | RL | mg/kg | RL | | | mg/kg | RL |
| Benzene | | <0.00200 | 0.00200 | | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | | | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | | | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | | | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00401 | 0.00401 | | | <0.00402 | 0.00402 | <0.00399 | 0.00399 | | | <0.00400 | 0.00400 |
| o-Xylene | | <0.00200 | 0.00200 | | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | | | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | | | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | | | <0.00200 | 0.00200 |
| **Chloride by EPA 300** | *Extracted:* | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | |
| | *Analyzed:* | Oct-22-19 09:50 | | Oct-22-19 10:05 | | Oct-22-19 10:10 | | Oct-22-19 10:15 | | Oct-22-19 10:20 | | Oct-22-19 10:25 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <5.03 | 5.03 | <5.01 | 5.01 | 10.7 | 4.96 | 20.9 | 4.97 | 8.41 | 5.00 | <4.99 | 4.99 |
| **TPH By SW8015 Mod** | *Extracted:* | Oct-22-19 10:00 | | Oct-22-19 10:00 | | | | Oct-22-19 10:00 | | Oct-22-19 10:00 | | | |
| | *Analyzed:* | Oct-22-19 15:02 | | Oct-22-19 15:23 | | | | Oct-22-19 15:44 | | Oct-22-19 16:15 | | | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | | | mg/kg | RL | mg/kg | RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | | | <49.8 | 49.8 | <50.0 | 50.0 | | |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | | | 465 | 49.8 | <50.0 | 50.0 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | | | 87.1 | 49.8 | <50.0 | 50.0 | | |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | | | 552 | 49.8 | <50.0 | 50.0 | | |

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Version: 1.%

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analysis Summary 640558

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Mon Oct-21-19 02:37 pm
**Report Date:** 25-OCT-19
**Project Manager:** Jessica Kramer

| Analysis Requested | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Lab Id:* | 640558-013 | | 640558-014 | | 640558-015 | | 640558-016 | | 640558-017 | | 640558-018 | |
| | *Field Id:* | AH-8 (0'-1') | | AH-8 (1'-1.5') | | AH-8 (2'-2.5') | | AH-9 (0'-1') | | AH-9 (1'-1.5') | | AH-9 (2'-2.5) | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | Oct-22-19 16:30 | | | | Oct-22-19 16:30 | | Oct-22-19 16:30 | | | | Oct-22-19 16:30 | |
| | *Analyzed:* | Oct-24-19 02:14 | | | | Oct-24-19 03:32 | | Oct-24-19 03:52 | | | | Oct-24-19 04:12 | |
| | *Units/RL:* | mg/kg | RL | | | mg/kg | RL | mg/kg | RL | | | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | | | <0.00200 | 0.00200 |
| Toluene | | <0.00201 | 0.00201 | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | | | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00201 | 0.00201 | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | | | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00402 | 0.00402 | | | <0.00398 | 0.00398 | <0.00397 | 0.00397 | | | <0.00400 | 0.00400 |
| o-Xylene | | <0.00201 | 0.00201 | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | | | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00201 | 0.00201 | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | | | <0.00200 | 0.00200 |
| Total BTEX | | <0.00201 | 0.00201 | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | | | <0.00200 | 0.00200 |
| **Chloride by EPA 300** | *Extracted:* | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | |
| | *Analyzed:* | Oct-22-19 10:30 | | Oct-22-19 10:45 | | Oct-22-19 11:10 | | Oct-22-19 10:50 | | Oct-22-19 11:05 | | Oct-22-19 11:15 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 10.8 | 5.05 | 10.9 | 4.99 | 8.74 | 5.04 | 11500 | 99.2 | 4510 | 24.9 | 256 | 5.02 |
| **TPH By SW8015 Mod** | *Extracted:* | Oct-22-19 10:00 | | Oct-22-19 10:00 | | | | Oct-22-19 10:00 | | | | Oct-22-19 10:00 | |
| | *Analyzed:* | Oct-22-19 16:36 | | Oct-22-19 17:17 | | | | Oct-22-19 17:38 | | | | Oct-22-19 17:59 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | | | mg/kg | RL | | | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | | | <49.9 | 49.9 | | | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | 1160 | 50.0 | <50.0 | 50.0 | | | <49.9 | 49.9 | | | 449 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | 342 | 50.0 | <50.0 | 50.0 | | | <49.9 | 49.9 | | | 93.1 | 49.9 |
| Total TPH | | 1500 | 50.0 | <50.0 | 50.0 | | | <49.9 | 49.9 | | | 542 | 49.9 |

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Version: 1.%

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analysis Summary 640558

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Mon Oct-21-19 02:37 pm
**Report Date:** 25-OCT-19
**Project Manager:** Jessica Kramer

| Analysis Requested | | Lab Id: | 640558-019 | | 640558-020 | | 640558-021 | | 640558-022 | | 640558-023 | | 640558-024 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Field Id: | AH-10 (0'-1') | | AH-10 (1'-1.5') | | AH-11 (0'-1') | | AH-11 (1'-1.5') | | AH-12 (0'-1') | | AH-12 (1-1.5') | |
| | | Depth: | | | | | | | | | | | | |
| | | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | | Sampled: | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | | Oct-17-19 00:00 | |
| **BTEX by EPA 8021B** | | Extracted: | Oct-22-19 16:30 | | | | Oct-22-19 16:30 | | | | Oct-22-19 16:30 | | | |
| | | Analyzed: | Oct-24-19 04:32 | | | | Oct-24-19 04:53 | | | | Oct-24-19 05:13 | | | |
| | | Units/RL: | mg/kg | RL | | | mg/kg | RL | | | mg/kg | RL | | |
| Benzene | | | <0.00200 | 0.00200 | | | <0.00202 | 0.00202 | | | <0.00202 | 0.00202 | | |
| Toluene | | | <0.00200 | 0.00200 | | | <0.00202 | 0.00202 | | | <0.00202 | 0.00202 | | |
| Ethylbenzene | | | <0.00200 | 0.00200 | | | <0.00202 | 0.00202 | | | <0.00202 | 0.00202 | | |
| m,p-Xylenes | | | <0.00401 | 0.00401 | | | <0.00403 | 0.00403 | | | <0.00403 | 0.00403 | | |
| o-Xylene | | | <0.00200 | 0.00200 | | | <0.00202 | 0.00202 | | | <0.00202 | 0.00202 | | |
| Total Xylenes | | | <0.00200 | 0.00200 | | | <0.00202 | 0.00202 | | | <0.00202 | 0.00202 | | |
| Total BTEX | | | <0.00200 | 0.00200 | | | <0.00202 | 0.00202 | | | <0.00202 | 0.00202 | | |
| **Chloride by EPA 300** | | Extracted: | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 08:45 | | Oct-22-19 09:00 | | Oct-22-19 09:00 | |
| | | Analyzed: | Oct-22-19 11:20 | | Oct-22-19 11:25 | | Oct-22-19 11:30 | | Oct-22-19 11:35 | | Oct-22-19 09:22 | | Oct-22-19 09:39 | |
| | | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | | 25.9 | 5.00 | 15.2 | 5.00 | 1340 | 5.00 | 680 | 5.05 | 302 | 5.00 | 320 | 4.95 |
| **TPH By SW8015 Mod** | | Extracted: | Oct-22-19 10:00 | | | | Oct-22-19 10:00 | | | | Oct-22-19 10:00 | | | |
| | | Analyzed: | Oct-22-19 18:19 | | | | Oct-22-19 18:40 | | | | Oct-22-19 19:01 | | | |
| | | Units/RL: | mg/kg | RL | | | mg/kg | RL | | | mg/kg | RL | | |
| Gasoline Range Hydrocarbons (GRO) | | | <50.0 | 50.0 | | | <49.9 | 49.9 | | | <50.0 | 50.0 | | |
| Diesel Range Organics (DRO) | | | <50.0 | 50.0 | | | <49.9 | 49.9 | | | <50.0 | 50.0 | | |
| Motor Oil Range Hydrocarbons (MRO) | | | <50.0 | 50.0 | | | <49.9 | 49.9 | | | <50.0 | 50.0 | | |
| Total TPH | | | <50.0 | 50.0 | | | <49.9 | 49.9 | | | <50.0 | 50.0 | | |

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Version: 1.%

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analysis Summary 640558

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Mon Oct-21-19 02:37 pm
**Report Date:** 25-OCT-19
**Project Manager:** Jessica Kramer

| Analysis Requested | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Lab Id:* | 640558-025 | | 640558-026 | | 640558-027 | | 640558-028 | | 640558-029 | | 640558-030 | |
| | *Field Id:* | AH-13 (0'-0.5') | | AH-14 (0'-0.5') | | AH-15 (0'-0.5') | | AH-16 (0-0.5') | | AH-17 (0'-0.5') | | AH-18 (0'-0.5') | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | Oct-18-19 00:00 | | Oct-18-19 00:00 | | Oct-18-19 00:00 | | Oct-18-19 00:00 | | Oct-18-19 00:00 | | Oct-18-19 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | Oct-22-19 16:30 | | Oct-22-19 16:30 | | Oct-22-19 16:30 | | Oct-22-19 16:30 | | Oct-22-19 15:00 | | Oct-22-19 15:00 | |
| | *Analyzed:* | Oct-24-19 05:33 | | Oct-24-19 05:53 | | Oct-24-19 06:13 | | Oct-24-19 06:33 | | Oct-24-19 01:47 | | Oct-24-19 02:07 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Toluene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00400 | 0.00400 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| **Chloride by EPA 300** | *Extracted:* | Oct-22-19 09:00 | | Oct-22-19 09:00 | | Oct-22-19 09:00 | | Oct-22-19 09:00 | | Oct-22-19 09:00 | | Oct-22-19 09:00 | |
| | *Analyzed:* | Oct-22-19 09:44 | | Oct-22-19 09:49 | | Oct-22-19 09:55 | | Oct-22-19 10:11 | | Oct-22-19 10:17 | | Oct-22-19 10:22 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 1790 | 25.1 | 11800 | 99.8 | 3160 | 25.2 | 2810 | 25.3 | 3790 | 24.9 | 3030 | 24.8 |
| **TPH By SW8015 Mod** | *Extracted:* | Oct-22-19 10:00 | | Oct-22-19 10:00 | | Oct-22-19 10:00 | | Oct-22-19 10:00 | | Oct-22-19 14:00 | | Oct-22-19 14:00 | |
| | *Analyzed:* | Oct-22-19 19:22 | | Oct-22-19 19:42 | | Oct-22-19 20:04 | | Oct-22-19 20:24 | | Oct-23-19 20:30 | | Oct-23-19 20:51 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |

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Version: 1.%

Jessica Kramer
Project Assistant



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# Certificate of Analysis Summary 640558

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Mon Oct-21-19 02:37 pm
**Report Date:** 25-OCT-19
**Project Manager:** Jessica Kramer

| Analysis Requested | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | *Lab Id:* | 640558-031 | | 640558-032 | | 640558-033 | | | |
| | *Field Id:* | AH-19 (0'-0.5') | | AH-20 (0'-0.5') | | AH-21 (0'-0.5') | | | |
| | *Depth:* | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | | |
| | *Sampled:* | Oct-18-19 00:00 | | Oct-18-19 00:00 | | Oct-18-19 00:00 | | | |
| **BTEX by EPA 8021B** | *Extracted:* | Oct-22-19 15:00 | | Oct-22-19 15:00 | | Oct-22-19 15:00 | | | |
| | *Analyzed:* | Oct-24-19 02:27 | | Oct-24-19 02:47 | | Oct-24-19 08:53 | | | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Benzene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | | |
| Toluene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | | |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | | |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00402 | 0.00402 | <0.00402 | 0.00402 | | |
| o-Xylene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | | |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | | |
| Total BTEX | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | | |
| **Chloride by EPA 300** | *Extracted:* | Oct-22-19 09:00 | | Oct-22-19 09:00 | | Oct-22-19 09:00 | | | |
| | *Analyzed:* | Oct-22-19 10:28 | | Oct-22-19 10:33 | | Oct-22-19 10:38 | | | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Chloride | | 6310 | 50.0 | 11500 | 49.5 | 105 | 4.95 | | |
| **TPH By SW8015 Mod** | *Extracted:* | Oct-22-19 14:00 | | Oct-22-19 14:00 | | Oct-23-19 15:00 | | | |
| | *Analyzed:* | Oct-23-19 21:12 | | Oct-23-19 01:57 | | Oct-24-19 04:32 | | | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | | |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | | |
| Total TPH | | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | | |

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Version: 1.%

Jessica Kramer
Project Assistant



Final 1.000

# Analytical Report 640558

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG Rattlesnake Reuse Pit**

**212C-MD-01974**

**25-OCT-19**

Collected By: Client

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

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 (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

25-OCT-19

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **640558**
**EOG Rattlesnake Reuse Pit**
Project Address: Lea County, New Mexico

**Mike Carmona**:

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) 640558. 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. 640558 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,

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 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| AH-1 (0'-1') | S | 10-17-19 00:00 | | 640558-001 |
| AH-2 (0'-0.5') | S | 10-17-19 00:00 | | 640558-002 |
| AH-3 (0'-0.5') | S | 10-17-19 00:00 | | 640558-003 |
| AH-4 (0'-1') | S | 10-17-19 00:00 | | 640558-004 |
| AH-5 (0'-1') | S | 10-17-19 00:00 | | 640558-005 |
| AH-5 (1'-1.5') | S | 10-17-19 00:00 | | 640558-006 |
| AH-6 (0'-1') | S | 10-17-19 00:00 | | 640558-007 |
| AH-6(1'-1.5') | S | 10-17-19 00:00 | | 640558-008 |
| AH-6 (2'-2.5') | S | 10-17-19 00:00 | | 640558-009 |
| AH-7 (0'-1') | S | 10-17-19 00:00 | | 640558-010 |
| AH-7 (1'-1.5') | S | 10-17-19 00:00 | | 640558-011 |
| AH-7 (2'-2.5') | S | 10-17-19 00:00 | | 640558-012 |
| AH-8 (0'-1') | S | 10-17-19 00:00 | | 640558-013 |
| AH-8 (1'-1.5') | S | 10-17-19 00:00 | | 640558-014 |
| AH-8 (2'-2.5') | S | 10-17-19 00:00 | | 640558-015 |
| AH-9 (0'-1') | S | 10-17-19 00:00 | | 640558-016 |
| AH-9 (1'-1.5') | S | 10-17-19 00:00 | | 640558-017 |
| AH-9 (2'-2.5) | S | 10-17-19 00:00 | | 640558-018 |
| AH-10 (0'-1') | S | 10-17-19 00:00 | | 640558-019 |
| AH-10 (1'-1.5') | S | 10-17-19 00:00 | | 640558-020 |
| AH-11 (0'-1') | S | 10-17-19 00:00 | | 640558-021 |
| AH-11 (1'-1.5') | S | 10-17-19 00:00 | | 640558-022 |
| AH-12 (0'-1') | S | 10-17-19 00:00 | | 640558-023 |
| AH-12 (1-1.5') | S | 10-17-19 00:00 | | 640558-024 |
| AH-13 (0'-0.5') | S | 10-18-19 00:00 | | 640558-025 |
| AH-14 (0'-0.5') | S | 10-18-19 00:00 | | 640558-026 |
| AH-15 (0'-0.5') | S | 10-18-19 00:00 | | 640558-027 |
| AH-16 (0-0.5') | S | 10-18-19 00:00 | | 640558-028 |
| AH-17 (0'-0.5') | S | 10-18-19 00:00 | | 640558-029 |
| AH-18 (0'-0.5') | S | 10-18-19 00:00 | | 640558-030 |
| AH-19 (0'-0.5') | S | 10-18-19 00:00 | | 640558-031 |
| AH-20 (0'-0.5') | S | 10-18-19 00:00 | | 640558-032 |
| AH-21 (0'-0.5') | S | 10-18-19 00:00 | | 640558-033 |

Version: 1.%

# CASE NARRATIVE

***Client Name: Tetra Tech- Midland***
***Project Name: EOG Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *640558*

Report Date: *25-OCT-19*
Date Received: *10/21/2019*

**Sample receipt non conformances and comments:**

None

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3105248 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 640558-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Ethylbenzene, Toluene, 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: 640558-001, -002, -003, -004, -005, -007, -009, -010, -012, -013, -015, -016, -018, -019, -021, -023, -025, -026, -027, -028.
The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3105310 BTEX by EPA 8021B
Lab Sample ID 640558-029 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 and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 640558-029, -030, -031, -032, -033.
The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-1 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-001 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.21.19 16.15 | Basis: | Wet Weight |
| Seq Number: | 3104934 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **48.5** | 5.02 | mg/kg | 10.21.19 19.44 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.22.19 12.36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.22.19 12.36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.22.19 12.36 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.22.19 12.36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-135 | 10.22.19 12.36 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-135 | 10.22.19 12.36 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-1 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-001 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.13 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 10.23.19 23.13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.13 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 10.23.19 23.13 | |
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 10.23.19 23.13 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-2 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-002 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.21.19 16.15 | Basis: | Wet Weight |
| Seq Number: | 3104934 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.05 | 5.05 | mg/kg | 10.21.19 19.49 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.22.19 13.39 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.22.19 13.39 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.22.19 13.39 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.22.19 13.39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-135 | 10.22.19 13.39 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-135 | 10.22.19 13.39 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-2 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-002 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 10.23.19 23.33 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 10.23.19 23.33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 10.23.19 23.33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 10.23.19 23.33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 10.23.19 23.33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 10.23.19 23.33 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 10.23.19 23.33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 10.23.19 23.33 | |
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 10.23.19 23.33 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-3 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-003 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.21.19 16.15 | Basis: | Wet Weight |
| Seq Number: | 3104934 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.00** | 5.04 | mg/kg | 10.21.19 19.54 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 10.22.19 14.00 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 10.22.19 14.00 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 10.22.19 14.00 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 10.22.19 14.00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-135 | 10.22.19 14.00 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-135 | 10.22.19 14.00 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-3 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-003 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.53 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 10.23.19 23.53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.53 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.23.19 23.53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 10.23.19 23.53 | |
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 10.23.19 23.53 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-4 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-004 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.21.19 16.15 | Basis: | Wet Weight |
| Seq Number: | 3104934 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 10.21.19 19.59 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.22.19 14.20 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.22.19 14.20 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.22.19 14.20 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.22.19 14.20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-135 | 10.22.19 14.20 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 10.22.19 14.20 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-4 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-004 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 10.24.19 00.13 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 10.24.19 00.13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 10.24.19 00.13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 10.24.19 00.13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 10.24.19 00.13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 10.24.19 00.13 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 10.24.19 00.13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 10.24.19 00.13 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 10.24.19 00.13 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-5 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-005 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.21.19 16.15 | Basis: | Wet Weight |
| Seq Number: | 3104934 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 10.21.19 20.04 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.22.19 14.41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.22.19 14.41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.22.19 14.41 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.22.19 14.41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-135 | 10.22.19 14.41 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 10.22.19 14.41 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-5 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-005 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 10.24.19 00.33 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 10.24.19 00.33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 10.24.19 00.33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 10.24.19 00.33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 10.24.19 00.33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 10.24.19 00.33 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 10.24.19 00.33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 10.24.19 00.33 | |
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 10.24.19 00.33 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-5 (1'-1.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-006 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.21.19 16.15 | Basis: | Wet Weight |
| Seq Number: | 3104934 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.98 | 4.98 | mg/kg | 10.21.19 20.09 | U | 1 |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-6 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-007 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.03 | 5.03 | mg/kg | 10.22.19 09.50 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.22.19 15.02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.22.19 15.02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.22.19 15.02 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.22.19 15.02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-135 | 10.22.19 15.02 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-135 | 10.22.19 15.02 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-6 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-007 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.24.19 00.53 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.24.19 00.53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.24.19 00.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 10.24.19 00.53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.24.19 00.53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.24.19 00.53 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.24.19 00.53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 10.24.19 00.53 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 10.24.19 00.53 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-6(1'-1.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-008 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.01 | 5.01 | mg/kg | 10.22.19 10.05 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.22.19 15.23 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.22.19 15.23 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.22.19 15.23 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.22.19 15.23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-135 | 10.22.19 15.23 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-135 | 10.22.19 15.23 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-6 (2'-2.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-009 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.7** | 4.96 | mg/kg | 10.22.19 10.10 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 10.24.19 01.13 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 10.24.19 01.13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 10.24.19 01.13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 10.24.19 01.13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 10.24.19 01.13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 10.24.19 01.13 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 10.24.19 01.13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 10.24.19 01.13 | |
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 10.24.19 01.13 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-7 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-010 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **20.9** | 4.97 | mg/kg | 10.22.19 10.15 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 10.22.19 15.44 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **465** | 49.8 | mg/kg | 10.22.19 15.44 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **87.1** | 49.8 | mg/kg | 10.22.19 15.44 | | 1 |
| **Total TPH** | PHC635 | **552** | 49.8 | mg/kg | 10.22.19 15.44 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-135 | 10.22.19 15.44 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 10.22.19 15.44 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-7 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-010 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.34 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 10.24.19 01.34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.34 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 10.24.19 01.34 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 10.24.19 01.34 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-7 (1'-1.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-011 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.41** | 5.00 | mg/kg | 10.22.19 10.20 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.22.19 16.15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.22.19 16.15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.22.19 16.15 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.22.19 16.15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-135 | 10.22.19 16.15 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-135 | 10.22.19 16.15 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-7 (2'-2.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-012 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.99 | 4.99 | mg/kg | 10.22.19 10.25 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.54 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 10.24.19 01.54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.54 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 10.24.19 01.54 | |
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 10.24.19 01.54 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-8 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-013 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.8** | 5.05 | mg/kg | 10.22.19 10.30 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.22.19 16.36 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **1160** | 50.0 | mg/kg | 10.22.19 16.36 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **342** | 50.0 | mg/kg | 10.22.19 16.36 | | 1 |
| **Total TPH** | PHC635 | **1500** | 50.0 | mg/kg | 10.22.19 16.36 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-135 | 10.22.19 16.36 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 10.22.19 16.36 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-8 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-013 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.14 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.14 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 10.24.19 02.14 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.14 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.14 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 10.24.19 02.14 | |
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 10.24.19 02.14 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-8 (1'-1.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-014 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.9** | 4.99 | mg/kg | 10.22.19 10.45 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.22.19 17.17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.22.19 17.17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.22.19 17.17 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.22.19 17.17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-135 | 10.22.19 17.17 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-135 | 10.22.19 17.17 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-8 (2'-2.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-015 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.74** | 5.04 | mg/kg | 10.22.19 11.10 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 10.24.19 03.32 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 10.24.19 03.32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 10.24.19 03.32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 10.24.19 03.32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 10.24.19 03.32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 10.24.19 03.32 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 10.24.19 03.32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 10.24.19 03.32 | |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 10.24.19 03.32 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-9 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-016 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **11500** | 99.2 | mg/kg | 10.22.19 10.50 | | 20 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.22.19 17.38 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.22.19 17.38 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.22.19 17.38 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.22.19 17.38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-135 | 10.22.19 17.38 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-135 | 10.22.19 17.38 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-9 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-016 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 10.24.19 03.52 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 10.24.19 03.52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 10.24.19 03.52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 10.24.19 03.52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 10.24.19 03.52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 10.24.19 03.52 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 10.24.19 03.52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 10.24.19 03.52 | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 10.24.19 03.52 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-9 (1'-1.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-017 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **4510** | 24.9 | mg/kg | 10.22.19 11.05 | | 5 |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-9 (2'-2.5)** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-018 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **256** | 5.02 | mg/kg | 10.22.19 11.15 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.22.19 17.59 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **449** | 49.9 | mg/kg | 10.22.19 17.59 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **93.1** | 49.9 | mg/kg | 10.22.19 17.59 | | 1 |
| **Total TPH** | PHC635 | **542** | 49.9 | mg/kg | 10.22.19 17.59 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-135 | 10.22.19 17.59 | |
| o-Terphenyl | 84-15-1 | 119 | % | 70-135 | 10.22.19 17.59 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-9 (2'-2.5)** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-018 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.12 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 10.24.19 04.12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.12 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 10.24.19 04.12 | |
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 10.24.19 04.12 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-10 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-019 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **25.9** | 5.00 | mg/kg | 10.22.19 11.20 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.22.19 18.19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.22.19 18.19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.22.19 18.19 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.22.19 18.19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-135 | 10.22.19 18.19 | |
| o-Terphenyl | 84-15-1 | 111 | % | 70-135 | 10.22.19 18.19 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-10 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-019 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.32 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 10.24.19 04.32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.32 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.24.19 04.32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 10.24.19 04.32 | |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 10.24.19 04.32 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-10 (1'-1.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-020 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **15.2** | 5.00 | mg/kg | 10.22.19 11.25 | | 1 |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-11 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-021 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1340** | 5.00 | mg/kg | 10.22.19 11.30 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.22.19 18.40 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.22.19 18.40 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.22.19 18.40 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.22.19 18.40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-135 | 10.22.19 18.40 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-135 | 10.22.19 18.40 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-11 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-021 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 10.24.19 04.53 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 10.24.19 04.53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 10.24.19 04.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 10.24.19 04.53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 10.24.19 04.53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 10.24.19 04.53 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 10.24.19 04.53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 10.24.19 04.53 | |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 10.24.19 04.53 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-11 (1'-1.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-022 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 08.45 | Basis: | Wet Weight |
| Seq Number: | 3105074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **680** | 5.05 | mg/kg | 10.22.19 11.35 | | 1 |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-12 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-023 | Date Collected: | 10.17.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 09.00 | Basis: | Wet Weight |
| Seq Number: | 3105065 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **302** | 5.00 | mg/kg | 10.22.19 09.22 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.22.19 19.01 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.22.19 19.01 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.22.19 19.01 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.22.19 19.01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-135 | 10.22.19 19.01 | |
| o-Terphenyl | 84-15-1 | 111 | % | 70-135 | 10.22.19 19.01 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-12 (0'-1')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-023 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.13 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 10.24.19 05.13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.13 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 10.24.19 05.13 | |
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 10.24.19 05.13 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-12 (1-1.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-024 | Date Collected: | 10.17.19 00.00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 09.00 | Basis: | Wet Weight |
| Seq Number: | 3105065 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **320** | 4.95 | mg/kg | 10.22.19 09.39 | | 1 |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **AH-13 (0'-0.5')** Matrix: Soil Date Received:10.21.19 14.37

Lab Sample Id: 640558-025 Date Collected: 10.18.19 00.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.22.19 09.00 Basis: Wet Weight

Seq Number: 3105065

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1790** | 25.1 | mg/kg | 10.22.19 09.44 | | 5 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.22.19 10.00 Basis: Wet Weight

Seq Number: 3105129

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.22.19 19.22 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.22.19 19.22 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.22.19 19.22 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.22.19 19.22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-135 | 10.22.19 19.22 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-135 | 10.22.19 19.22 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-13 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-025 | Date Collected: | 10.18.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.33 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 10.24.19 05.33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.33 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 10.24.19 05.33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 10.24.19 05.33 | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 10.24.19 05.33 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **AH-14 (0'-0.5')** Matrix: Soil Date Received:10.21.19 14.37

Lab Sample Id: 640558-026 Date Collected: 10.18.19 00.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.22.19 09.00 Basis: Wet Weight

Seq Number: 3105065

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **11800** | 99.8 | mg/kg | 10.22.19 09.49 | | 20 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.22.19 10.00 Basis: Wet Weight

Seq Number: 3105129

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.22.19 19.42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.22.19 19.42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.22.19 19.42 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.22.19 19.42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-135 | 10.22.19 19.42 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-135 | 10.22.19 19.42 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-14 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-026 | Date Collected: | 10.18.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.24.19 05.53 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.24.19 05.53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.24.19 05.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 10.24.19 05.53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.24.19 05.53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.24.19 05.53 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.24.19 05.53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 10.24.19 05.53 | |
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 10.24.19 05.53 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-15 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-027 | Date Collected: | 10.18.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 09.00 | Basis: | Wet Weight |
| Seq Number: | 3105065 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **3160** | 25.2 | mg/kg | 10.22.19 09.55 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3105129 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.22.19 20.04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.22.19 20.04 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.22.19 20.04 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.22.19 20.04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-135 | 10.22.19 20.04 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-135 | 10.22.19 20.04 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-15 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-027 | Date Collected: | 10.18.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.24.19 06.13 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.24.19 06.13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.24.19 06.13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 10.24.19 06.13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.24.19 06.13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.24.19 06.13 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.24.19 06.13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 10.24.19 06.13 | |
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 10.24.19 06.13 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **AH-16 (0-0.5')** Matrix: Soil Date Received:10.21.19 14.37

Lab Sample Id: 640558-028 Date Collected: 10.18.19 00.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.22.19 09.00 Basis: Wet Weight

Seq Number: 3105065

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **2810** | 25.3 | mg/kg | 10.22.19 10.11 | | 5 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.22.19 10.00 Basis: Wet Weight

Seq Number: 3105129

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.22.19 20.24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.22.19 20.24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.22.19 20.24 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.22.19 20.24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-135 | 10.22.19 20.24 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-135 | 10.22.19 20.24 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-16 (0-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-028 | Date Collected: | 10.18.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 16.30 | Basis: | Wet Weight |
| Seq Number: | 3105248 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 10.24.19 06.33 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 10.24.19 06.33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 10.24.19 06.33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 10.24.19 06.33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 10.24.19 06.33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 10.24.19 06.33 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 10.24.19 06.33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 10.24.19 06.33 | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 10.24.19 06.33 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-17 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-029 | Date Collected: | 10.18.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 09.00 | Basis: | Wet Weight |
| Seq Number: | 3105065 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **3790** | 24.9 | mg/kg | 10.22.19 10.17 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 14.00 | Basis: | Wet Weight |
| Seq Number: | 3105281 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.23.19 20.30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.23.19 20.30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.23.19 20.30 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.23.19 20.30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-135 | 10.23.19 20.30 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-135 | 10.23.19 20.30 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-17 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-029 | Date Collected: | 10.18.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 15.00 | Basis: | Wet Weight |
| Seq Number: | 3105310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.47 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.47 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.47 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 10.24.19 01.47 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.47 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.47 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.24.19 01.47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 97 | % | 70-130 | 10.24.19 01.47 | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 10.24.19 01.47 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-18 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-030 | Date Collected: | 10.18.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 09.00 | Basis: | Wet Weight |
| Seq Number: | 3105065 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **3030** | 24.8 | mg/kg | 10.22.19 10.22 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 14.00 | Basis: | Wet Weight |
| Seq Number: | 3105281 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.23.19 20.51 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.23.19 20.51 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.23.19 20.51 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.23.19 20.51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-135 | 10.23.19 20.51 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-135 | 10.23.19 20.51 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-18 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-030 | Date Collected: | 10.18.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 15.00 | Basis: | Wet Weight |
| Seq Number: | 3105310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 10.24.19 02.07 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 10.24.19 02.07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 10.24.19 02.07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 10.24.19 02.07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 10.24.19 02.07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 10.24.19 02.07 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 10.24.19 02.07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 10.24.19 02.07 | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 10.24.19 02.07 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-19 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-031 | Date Collected: | 10.18.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 09.00 | Basis: | Wet Weight |
| Seq Number: | 3105065 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **6310** | 50.0 | mg/kg | 10.22.19 10.28 | | 10 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 14.00 | Basis: | Wet Weight |
| Seq Number: | 3105281 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 10.23.19 21.12 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 10.23.19 21.12 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 10.23.19 21.12 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 10.23.19 21.12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-135 | 10.23.19 21.12 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 10.23.19 21.12 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-19 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-031 | Date Collected: | 10.18.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 15.00 | Basis: | Wet Weight |
| Seq Number: | 3105310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.24.19 02.27 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.24.19 02.27 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.24.19 02.27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 10.24.19 02.27 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.24.19 02.27 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.24.19 02.27 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.24.19 02.27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 10.24.19 02.27 | |
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 10.24.19 02.27 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-20 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-032 | Date Collected: | 10.18.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 09.00 | Basis: | Wet Weight |
| Seq Number: | 3105065 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **11500** | 49.5 | mg/kg | 10.22.19 10.33 | | 10 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.22.19 14.00 | Basis: | Wet Weight |
| Seq Number: | 3105130 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.23.19 01.57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.23.19 01.57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.23.19 01.57 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.23.19 01.57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-135 | 10.23.19 01.57 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-135 | 10.23.19 01.57 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-20 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-032 | Date Collected: | 10.18.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 15.00 | Basis: | Wet Weight |
| Seq Number: | 3105310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.47 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.47 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.47 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 10.24.19 02.47 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.47 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.47 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 10.24.19 02.47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 10.24.19 02.47 | |
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 10.24.19 02.47 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-21 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-033 | Date Collected: | 10.18.19 00.00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 10.22.19 09.00 | Basis: | Wet Weight |
| Seq Number: | 3105065 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **105** | 4.95 | mg/kg | 10.22.19 10.38 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 10.23.19 15.00 | Basis: | Wet Weight |
| Seq Number: | 3105282 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 10.24.19 04.32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 10.24.19 04.32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 10.24.19 04.32 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 10.24.19 04.32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-135 | 10.24.19 04.32 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 10.24.19 04.32 | |

# Certificate of Analytical Results 640558

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **AH-21 (0'-0.5')** | Matrix: | Soil | Date Received: | 10.21.19 14.37 |
| Lab Sample Id: | 640558-033 | Date Collected: | 10.18.19 00.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 10.22.19 15.00 | Basis: | Wet Weight |
| Seq Number: | 3105310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 10.24.19 08.53 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 10.24.19 08.53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 10.24.19 08.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 10.24.19 08.53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 10.24.19 08.53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 10.24.19 08.53 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 10.24.19 08.53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 10.24.19 08.53 | |
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 10.24.19 08.53 | |

# 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

# QC Summary 640558



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104934 — Matrix: Solid — Date Prep: 10.21.19
MB Sample Id: 7688558-1-BLK — LCS Sample Id: 7688558-1-BKS — LCSD Sample Id: 7688558-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <0.858 | 250 | 257 | 103 | 252 | 101 | 90-110 | 2 | 20 | mg/kg | 10.21.19 17:41 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105074 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688584-1-BLK — LCS Sample Id: 7688584-1-BKS — LCSD Sample Id: 7688584-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 254 | 102 | 257 | 103 | 90-110 | 1 | 20 | mg/kg | 10.22.19 08:59 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105065 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688585-1-BLK — LCS Sample Id: 7688585-1-BKS — LCSD Sample Id: 7688585-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <0.858 | 250 | 245 | 98 | 243 | 97 | 90-110 | 1 | 20 | mg/kg | 10.22.19 09:11 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104934 — Matrix: Soil — Date Prep: 10.21.19
Parent Sample Id: 640522-002 — MS Sample Id: 640522-002 S — MSD Sample Id: 640522-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 63.6 | 248 | 323 | 105 | 326 | 106 | 90-110 | 1 | 20 | mg/kg | 10.21.19 19:09 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104934 — Matrix: Soil — Date Prep: 10.21.19
Parent Sample Id: 640535-001 — MS Sample Id: 640535-001 S — MSD Sample Id: 640535-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <0.853 | 249 | 270 | 108 | 267 | 107 | 90-110 | 1 | 20 | mg/kg | 10.21.19 17:56 | |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 640558



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105074 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640558-013 — MS Sample Id: 640558-013 S — MSD Sample Id: 640558-013 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 10.8 | 253 | 278 | 106 | 278 | 106 | 90-110 | 0 | 20 | mg/kg | 10.22.19 10:35 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105074 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640581-001 — MS Sample Id: 640581-001 S — MSD Sample Id: 640581-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 6.98 | 252 | 285 | 110 | 286 | 111 | 90-110 | 0 | 20 | mg/kg | 10.22.19 09:25 | X |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105065 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640558-023 — MS Sample Id: 640558-023 S — MSD Sample Id: 640558-023 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 302 | 250 | 546 | 98 | 542 | 96 | 90-110 | 1 | 20 | mg/kg | 10.22.19 09:28 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105065 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640558-033 — MS Sample Id: 640558-033 S — MSD Sample Id: 640558-033 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 105 | 248 | 349 | 98 | 348 | 98 | 90-110 | 0 | 20 | mg/kg | 10.22.19 10:44 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105129 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688652-1-BLK — LCS Sample Id: 7688652-1-BKS — LCSD Sample Id: 7688652-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 1040 | 104 | 1050 | 105 | 70-135 | 1 | 20 | mg/kg | 10.22.19 11:55 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1020 | 102 | 992 | 99 | 70-135 | 3 | 20 | mg/kg | 10.22.19 11:55 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 101 | | 106 | | 107 | | 70-135 | % | 10.22.19 11:55 |
| o-Terphenyl | 110 | | 110 | | 104 | | 70-135 | % | 10.22.19 11:55 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 640558



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105130 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688682-1-BLK — LCS Sample Id: 7688682-1-BKS — LCSD Sample Id: 7688682-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 1130 | 113 | 1060 | 106 | 70-135 | 6 | 20 | mg/kg | 10.22.19 21:27 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1150 | 115 | 1100 | 110 | 70-135 | 4 | 20 | mg/kg | 10.22.19 21:27 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | | 117 | | 120 | | 70-135 | % | 10.22.19 21:27 |
| o-Terphenyl | 115 | | 122 | | 117 | | 70-135 | % | 10.22.19 21:27 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105281 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688681-1-BLK — LCS Sample Id: 7688681-1-BKS — LCSD Sample Id: 7688681-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 1150 | 115 | 1160 | 116 | 70-135 | 1 | 20 | mg/kg | 10.23.19 12:51 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1080 | 108 | 1110 | 111 | 70-135 | 3 | 20 | mg/kg | 10.23.19 12:51 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 105 | | 116 | | 119 | | 70-135 | % | 10.23.19 12:51 |
| o-Terphenyl | 112 | | 116 | | 120 | | 70-135 | % | 10.23.19 12:51 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105282 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688742-1-BLK — LCS Sample Id: 7688742-1-BKS — LCSD Sample Id: 7688742-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 1130 | 113 | 1150 | 115 | 70-135 | 2 | 20 | mg/kg | 10.23.19 22:15 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1120 | 112 | 1130 | 113 | 70-135 | 1 | 20 | mg/kg | 10.23.19 22:15 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 107 | | 117 | | 118 | | 70-135 | % | 10.23.19 22:15 |
| o-Terphenyl | 115 | | 118 | | 123 | | 70-135 | % | 10.23.19 22:15 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105129 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688652-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 10.22.19 11:34 | |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 640558



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105130 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688682-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 10.22.19 21:06 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105281 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688681-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 10.23.19 12:30 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105282 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688742-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 10.23.19 21:54 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105129 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640558-001 — MS Sample Id: 640558-001 S — MSD Sample Id: 640558-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | 17.7 | 996 | 1050 | 104 | 1060 | 104 | 70-135 | 1 | 20 | mg/kg | 10.22.19 12:57 | |
| Diesel Range Organics (DRO) | <14.9 | 996 | 1030 | 103 | 1040 | 104 | 70-135 | 1 | 20 | mg/kg | 10.22.19 12:57 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | | 117 | | 70-135 | % | 10.22.19 12:57 |
| o-Terphenyl | 101 | | 102 | | 70-135 | % | 10.22.19 12:57 |

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



Final 1.000

# QC Summary 640558



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105130 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640517-001 — MS Sample Id: 640517-001 S — MSD Sample Id: 640517-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | 17.5 | 996 | 1080 | 107 | 1080 | 106 | 70-135 | 0 | 20 | mg/kg | 10.22.19 22:29 | |
| Diesel Range Organics (DRO) | <14.9 | 996 | 1100 | 110 | 1090 | 109 | 70-135 | 1 | 20 | mg/kg | 10.22.19 22:29 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 106 | | 107 | | 70-135 | % | 10.22.19 22:29 |
| o-Terphenyl | 107 | | 104 | | 70-135 | % | 10.22.19 22:29 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105281 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640519-001 — MS Sample Id: 640519-001 S — MSD Sample Id: 640519-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <15.0 | 999 | 1140 | 114 | 1130 | 113 | 70-135 | 1 | 20 | mg/kg | 10.23.19 13:53 | |
| Diesel Range Organics (DRO) | <15.0 | 999 | 1090 | 109 | 1070 | 107 | 70-135 | 2 | 20 | mg/kg | 10.23.19 13:53 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 110 | | 121 | | 70-135 | % | 10.23.19 13:53 |
| o-Terphenyl | 106 | | 105 | | 70-135 | % | 10.23.19 13:53 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105282 — Matrix: Soil — Date Prep: 10.23.19
Parent Sample Id: 640659-001 — MS Sample Id: 640659-001 S — MSD Sample Id: 640659-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <14.9 | 996 | 1200 | 120 | 1200 | 120 | 70-135 | 0 | 20 | mg/kg | 10.23.19 23:17 | |
| Diesel Range Organics (DRO) | 32.9 | 996 | 1150 | 112 | 1140 | 111 | 70-135 | 1 | 20 | mg/kg | 10.23.19 23:17 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 113 | | 111 | | 70-135 | % | 10.23.19 23:17 |
| o-Terphenyl | 113 | | 110 | | 70-135 | % | 10.23.19 23:17 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 640558



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105310 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688671-1-BLK — LCS Sample Id: 7688671-1-BKS — LCSD Sample Id: 7688671-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.104 | 104 | 0.103 | 103 | 70-130 | 1 | 35 | mg/kg | 10.23.19 11:47 | |
| Toluene | <0.00200 | 0.100 | 0.0938 | 94 | 0.0952 | 95 | 70-130 | 1 | 35 | mg/kg | 10.23.19 11:47 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0932 | 93 | 0.0916 | 92 | 70-130 | 2 | 35 | mg/kg | 10.23.19 11:47 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.185 | 93 | 0.186 | 93 | 70-130 | 1 | 35 | mg/kg | 10.23.19 11:47 | |
| o-Xylene | <0.00200 | 0.100 | 0.0909 | 91 | 0.0896 | 90 | 70-130 | 1 | 35 | mg/kg | 10.23.19 11:47 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 101 | | 102 | | 96 | | 70-130 | % | 10.23.19 11:47 |
| 4-Bromofluorobenzene | 97 | | 106 | | 108 | | 70-130 | % | 10.23.19 11:47 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105248 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688674-1-BLK — LCS Sample Id: 7688674-1-BKS — LCSD Sample Id: 7688674-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0891 | 89 | 0.0964 | 96 | 70-130 | 8 | 35 | mg/kg | 10.23.19 21:13 | |
| Toluene | <0.00200 | 0.100 | 0.0873 | 87 | 0.0941 | 94 | 70-130 | 7 | 35 | mg/kg | 10.23.19 21:13 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0952 | 95 | 0.102 | 102 | 70-130 | 7 | 35 | mg/kg | 10.23.19 21:13 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.189 | 95 | 0.202 | 101 | 70-130 | 7 | 35 | mg/kg | 10.23.19 21:13 | |
| o-Xylene | <0.00200 | 0.100 | 0.0971 | 97 | 0.104 | 104 | 70-130 | 7 | 35 | mg/kg | 10.23.19 21:13 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 87 | | 88 | | 89 | | 70-130 | % | 10.23.19 21:13 |
| 4-Bromofluorobenzene | 108 | | 107 | | 111 | | 70-130 | % | 10.23.19 21:13 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105310 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640558-029 — MS Sample Id: 640558-029 S — MSD Sample Id: 640558-029 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | 0.101 | 0.0958 | 95 | 0.0922 | 93 | 70-130 | 4 | 35 | mg/kg | 10.24.19 12:27 | |
| Toluene | <0.00201 | 0.101 | 0.0667 | 66 | 0.0624 | 63 | 70-130 | 7 | 35 | mg/kg | 10.24.19 12:27 | X |
| Ethylbenzene | <0.00201 | 0.101 | 0.0497 | 49 | 0.0516 | 52 | 70-130 | 4 | 35 | mg/kg | 10.24.19 12:27 | X |
| m,p-Xylenes | <0.00402 | 0.201 | 0.0962 | 48 | 0.102 | 52 | 70-130 | 6 | 35 | mg/kg | 10.24.19 12:27 | X |
| o-Xylene | <0.00201 | 0.101 | 0.0484 | 48 | 0.0507 | 51 | 70-130 | 5 | 35 | mg/kg | 10.24.19 12:27 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 112 | | 101 | | 70-130 | % | 10.24.19 12:27 |
| 4-Bromofluorobenzene | 122 | | 112 | | 70-130 | % | 10.24.19 12:27 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 640558



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3105248 Matrix: Soil Date Prep: 10.22.19

Parent Sample Id: 640558-001 MS Sample Id: 640558-001 S MSD Sample Id: 640558-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | 0.0992 | 0.0914 | 92 | 0.0841 | 83 | 70-130 | 8 | 35 | mg/kg | 10.23.19 21:53 | |
| Toluene | <0.00198 | 0.0992 | 0.0761 | 77 | 0.0623 | 62 | 70-130 | 20 | 35 | mg/kg | 10.23.19 21:53 | X |
| Ethylbenzene | <0.00198 | 0.0992 | 0.0690 | 70 | 0.0505 | 50 | 70-130 | 31 | 35 | mg/kg | 10.23.19 21:53 | X |
| m,p-Xylenes | <0.00397 | 0.198 | 0.134 | 68 | 0.106 | 52 | 70-130 | 23 | 35 | mg/kg | 10.23.19 21:53 | X |
| o-Xylene | <0.00198 | 0.0992 | 0.0695 | 70 | 0.0590 | 58 | 70-130 | 16 | 35 | mg/kg | 10.23.19 21:53 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 100 | | 100 | | 70-130 | % | 10.23.19 21:53 |
| 4-Bromofluorobenzene | 101 | | 121 | | 70-130 | % | 10.23.19 21:53 |

| | | | |
|---|---|---|---|
| MS/MSD Percent Recovery | [D] = 100*(C-A) / B | LCS = Laboratory Control Sample | MS = Matrix Spike |
| Relative Percent Difference | RPD = 200* \| (C-E) / (C+E) \| | A = Parent Result | B = Spike Added |
| LCS/LCSD Recovery | [D] = 100 * (C) / [B] | C = MS/LCS Result | D = MSD/LCSD % Rec |
| Log Difference | Log Diff. = Log(Sample Duplicate) - Log(Original Sample) | E = MSD/LCSD Result | |

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**Analysis Request of Chain of Custody Record**

1040558



# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG | **Site Manager:** | Mike Carmona |
| **Project Name:** | Rattlesnake Reuse Pit | | |
| **Project Location: (county, state)** | Lea County, New Mexico | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | EOG attn. Todd Wells | | |
| **Receiving Laboratory:** | Xenco | **Sampler Signature:** | |
| **Comments:** | | | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: NONE | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | 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 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | YEAR: 2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AH-1 (0'- 1') | 10/17/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-2 (0'- 0.5') | 10/17/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-3 (0'- 0.5') | 10/17/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-4 (0'- 1') | 10/17/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-5 (0'- 1') | 10/17/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-5 (1'- 1.5') | 10/17/2019 | - | | X | | | | X | | | 1 | N | | | | | | | | | | | | | | | X | | | | | | |
| | AH-6 (0'- 1') | 10/17/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-6 (1'- 1.5') | 10/17/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-6 (2'- 2.5') | 10/17/2019 | - | | X | | | | X | | | 1 | N | | | | | | | | | | | | | | | X | | | | | | |
| | AH-7 (0'- 1') | 10/17/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: T. Tyler | Date: 10-21-19 | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: Time: 1437

Date: Time:

Date: Time:

**LAB USE ONLY**

Sample Temperature 0.5/0.3

**REMARKS:**

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Final 1.000
Page 74 of 78
Received by OCD: 6/29/2021 10:26:12 AM
Released to Imaging: 7/15/2021 9:57:59 AM

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**Analysis Request of Chain of Custody Record**

1040558



# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG | **Site Manager:** | Mike Carmona |
| **Project Name:** | Rattlesnake Reuse Pit | | |
| **Project Location: (county, state)** | Lea County, New Mexico | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | EOG attn. Todd Wells | | |
| **Receiving Laboratory:** | Xenco | **Sampler Signature:** | J. Tyler |
| **Comments:** | | | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2019 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD NONE | # CONTAINERS | FILTERED (Y/N) | 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 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AH-7 (1'- 1.5') | 10/17/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-7 (2'- 2.5') | 10/17/2019 | - | | X | | | | X | | 1 | N | | | | | | | | | | | | | | | X | | | | | | |
| | AH-8 (0'- 1') | 10/17/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-8 (1'- 1.5') | 10/17/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-8 (2'- 2.5') | 10/17/2019 | - | | X | | | | X | | 1 | N | | | | | | | | | | | | | | | X | | | | | | |
| | AH-9 (0'- 1') | 10/17/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-9 (1'- 1.5') | 10/17/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-9 (2'- 2.5') | 10/17/2019 | - | | X | | | | X | | 1 | N | | | | | | | | | | | | | | | X | | | | | | |
| | AH-10 (0'- 1') | 10/17/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-10 (1'- 1.5') | 10/17/2019 | - | | X | | | | X | | 1 | N | | | | | | | | | | | | | | | X | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: J. Tyler | Date: 10-21-19 | Time: | Received by: [illegible] |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: Time: 1437
Date: Time:
Date: Time:

**LAB USE ONLY**

Sample Temperature: 0510.3

**REMARKS:**

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Page 75 of 78
Received by OCD: 6/29/2021 10:26:12 AM
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**Analysis Request of Chain of Custody Record**

1404558



# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG attn. Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** L. Tyler |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2019 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD NONE | # CONTAINERS | FILTERED (Y/N) | 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 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AH-11 (0'- 1') | 10/17/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-11 (1'- 1.5') | 10/17/2019 | - | | X | | | | X | | 1 | N | | | | | | | | | | | | | | | X | | | | | | |
| | AH-12 (0'- 1') | 10/17/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-12 (1'- 1.5') | 10/17/2019 | - | | X | | | | X | | 1 | N | | | | | | | | | | | | | | | X | | | | | | |
| | AH-13 (0'- 0.5') | 10/18/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-14 (0'- 0.5') | 10/18/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-15 (0'- 0.5') | 10/18/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-16 (0'- 0.5') | 10/18/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-17 (0'- 0.5') | 10/18/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-18 (0'- 0.5') | 10/18/2019 | - | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: L. Tyler | Date: 10-21-19 | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: Time: 1437
Date: Time:
Date: Time:

**LAB USE ONLY**

Sample Temperature 0-5|0.3

**REMARKS:**

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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**Analysis Request of Chain of Custody Record**

1604558



# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG | **Site Manager:** | Mike Carmona |
| **Project Name:** | Rattlesnake Reuse Pit | | |
| **Project Location: (county, state)** | Lea County, New Mexico | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | EOG attn. Todd Wells | | |
| **Receiving Laboratory:** | Xenco | **Sampler Signature:** | |
| **Comments:** | | | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2019 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD NONE | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AH-19 (0'- 0.5') | 10/18/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-20 (0'- 0.5') | 10/18/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | AH-21 (0'- 0.5') | 10/18/2019 | - | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | |
|---|---|---|---|
| Relinquished by: | Date: 10-21-19 | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: Time: 1437

**LAB USE ONLY**

Sample Temperature

0.5 | 0.3

**REMARKS:**

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 10/21/2019 02:37:00 PM

**Work Order #:** 640558

**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)? | .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)? | **N/A** |
| #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:** Brianna Teel Date: 10/21/2019

Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 10/23/2019

Jessica Kramer

# Analytical Report 658227

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG-Rattlesnake Reuse Pit**

**212C-MD-01974**

**04.10.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.10.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **658227**
**EOG-Rattlesnake Reuse Pit**
Project Address: Lea County, NM

**Mike Carmona**:

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) 658227. 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. 658227 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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

# Sample Cross Reference 658227

## Tetra Tech- Midland, Midland, TX

EOG-Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| Bottom Hole-34 4.5' | S | 04.03.2020 13:45 | | 658227-001 |
| Bottom Hole-35 4.5' | S | 04.03.2020 13:47 | | 658227-002 |
| Bottom Hole-36 4.5' | S | 04.03.2020 13:49 | | 658227-003 |
| Bottom Hole-37 4.5' | S | 04.03.2020 13:51 | | 658227-004 |
| Bottom Hole-38 4.5' | S | 04.03.2020 13:53 | | 658227-005 |
| Bottom Hole-39 4.5' | S | 04.03.2020 13:55 | | 658227-006 |
| Bottom Hole-40 4.5' | S | 04.03.2020 13:57 | | 658227-007 |
| Bottom Hole-41 4.5' | S | 04.03.2020 13:59 | | 658227-008 |
| Bottom Hole-42 4.5' | S | 04.03.2020 14:01 | | 658227-009 |
| Bottom Hole-43 4.5' | S | 04.03.2020 14:03 | | 658227-010 |
| Bottom Hole-44 4.5' | S | 04.03.2020 14:05 | | 658227-011 |
| Bottom Hole-45 4.5' | S | 04.03.2020 14:07 | | 658227-012 |
| Bottom Hole-46 4.5' | S | 04.03.2020 15:35 | | 658227-013 |
| Bottom Hole-47 4.5' | S | 04.03.2020 15:37 | | 658227-014 |
| Bottom Hole-48 4.5' | S | 04.03.2020 15:39 | | 658227-015 |
| Bottom Hole-49 4.5' | S | 04.03.2020 15:41 | | 658227-016 |
| Bottom Hole-50 4.5' | S | 04.03.2020 15:43 | | 658227-017 |
| Bottom Hole-51 4.5' | S | 04.03.2020 15:45 | | 658227-018 |
| Bottom Hole-52 4.5' | S | 04.03.2020 15:47 | | 658227-019 |
| Bottom Hole-53 4.5' | S | 04.03.2020 15:49 | | 658227-020 |
| Bottom Hole-54 4.5' | S | 04.03.2020 15:51 | | 658227-021 |
| Bottom Hole-55 4.5' | S | 04.03.2020 15:53 | | 658227-022 |
| Bottom Hole-56 4.5' | S | 04.03.2020 15:55 | | 658227-023 |
| Bottom Hole-57 4.5' | S | 04.03.2020 15:57 | | 658227-024 |
| Bottom Hole-58 4.5' | S | 04.03.2020 15:59 | | 658227-025 |
| Bottom Hole-59 4.5' | S | 04.03.2020 16:01 | | 658227-026 |
| Bottom Hole-60 4.5' | S | 04.03.2020 16:03 | | 658227-027 |
| Bottom Hole-61 4.5' | S | 04.03.2020 16:05 | | 658227-028 |
| Bottom Hole-62 4.5' | S | 04.03.2020 16:07 | | 658227-029 |
| Bottom Hole-63 4.5' | S | 04.03.2020 16:09 | | 658227-030 |
| Bottom Hole-64 4.5' | S | 04.03.2020 16:11 | | 658227-031 |
| Bottom Hole-65 4.5' | S | 04.03.2020 16:13 | | 658227-032 |
| Bottom Hole-66 4.5' | S | 04.03.2020 16:15 | | 658227-033 |
| Bottom Hole-67 4.5' | S | 04.03.2020 16:17 | | 658227-034 |
| Bottom Hole-68 4.5' | S | 04.03.2020 16:19 | | 658227-035 |
| Bottom Hole-69 4.5' | S | 04.03.2020 16:21 | | 658227-036 |
| Bottom Hole-70 4.5' | S | 04.03.2020 16:23 | | 658227-037 |
| North 3 Sidewall | S | 04.03.2020 14:20 | | 658227-038 |
| East 3 Sidewall | S | 04.03.2020 14:22 | | 658227-039 |
| South 1 Sidewall | S | 04.03.2020 14:24 | | 658227-040 |
| West 1 Sidewall 4.5' | S | 04.03.2020 14:26 | | 658227-041 |
| West 2 Sidewall 4.5' | S | 04.03.2020 14:28 | | 658227-042 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG-Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *658227*

Report Date: *04.10.2020*
Date Received: *04.08.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3122435 Inorganic Anions by EPA 300/300.1

Lab Sample ID 658227-042 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: 658227-033, -034, -035, -036, -037, -038, -039, -040, -041, -042.

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

Batch: LBA-3122487 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7700880-1-BKS,7700880-1-BSD,658227-001 S,658227-001 SD,658227-006,658227-007,658227-013.

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

Batch: LBA-3122572 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 658227-020,658227-022,658227-023,658227-036,658227-028,658227-029,658227-035,658227-026.

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

Batch: LBA-3122631 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 658227-040,658227-042,658227-041.

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

# Certificate of Analysis Summary 658227

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG-Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.08.2020 09:38
**Report Date:** 04.10.2020 16:18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 658227-001 | | 658227-002 | | 658227-003 | | 658227-004 | | 658227-005 | | 658227-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole-34 4.5' | | Bottom Hole-35 4.5' | | Bottom Hole-36 4.5' | | Bottom Hole-37 4.5' | | Bottom Hole-38 4.5' | | Bottom Hole-39 4.5' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.03.2020 13:45 | | 04.03.2020 13:47 | | 04.03.2020 13:49 | | 04.03.2020 13:51 | | 04.03.2020 13:53 | | 04.03.2020 13:55 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | |
| | *Analyzed:* | 04.09.2020 05:55 | | 04.09.2020 06:15 | | 04.09.2020 06:35 | | 04.09.2020 06:55 | | 04.09.2020 07:15 | | 04.09.2020 07:35 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Toluene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00403 | 0.00403 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.08.2020 12:40 | | 04.08.2020 12:40 | | 04.08.2020 12:40 | | 04.08.2020 12:40 | | 04.08.2020 12:40 | | 04.08.2020 12:40 | |
| | *Analyzed:* | 04.08.2020 14:48 | | 04.08.2020 14:54 | | 04.08.2020 14:59 | | 04.08.2020 15:15 | | 04.08.2020 15:20 | | 04.08.2020 15:36 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 226 | 5.04 | 464 | 25.0 | 290 | 4.98 | 881 | 50.4 | 288 | 4.99 | 413 | 25.1 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | |
| | *Analyzed:* | 04.08.2020 12:51 | | 04.08.2020 17:04 | | 04.08.2020 17:25 | | 04.08.2020 17:47 | | 04.08.2020 18:08 | | 04.08.2020 18:30 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 658227

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG-Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.08.2020 09:38
**Report Date:** 04.10.2020 16:18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 658227-007 | | 658227-008 | | 658227-009 | | 658227-010 | | 658227-011 | | 658227-012 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole-40 4.5' | | Bottom Hole-41 4.5' | | Bottom Hole-42 4.5' | | Bottom Hole-43 4.5' | | Bottom Hole-44 4.5' | | Bottom Hole-45 4.5' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.03.2020 13:57 | | 04.03.2020 13:59 | | 04.03.2020 14:01 | | 04.03.2020 14:03 | | 04.03.2020 14:05 | | 04.03.2020 14:07 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | |
| | *Analyzed:* | 04.09.2020 07:56 | | 04.09.2020 08:20 | | 04.09.2020 08:40 | | 04.09.2020 09:00 | | 04.09.2020 10:39 | | 04.09.2020 10:59 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Toluene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00404 | 0.00404 | <0.00402 | 0.00402 | <0.00402 | 0.00402 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.08.2020 12:40 | | 04.08.2020 12:40 | | 04.08.2020 12:40 | | 04.08.2020 12:40 | | 04.08.2020 12:40 | | 04.08.2020 12:40 | |
| | *Analyzed:* | 04.08.2020 15:41 | | 04.08.2020 15:46 | | 04.08.2020 15:52 | | 04.08.2020 15:57 | | 04.08.2020 16:02 | | 04.08.2020 16:07 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 336 | 24.8 | 239 | 5.00 | 517 | 25.0 | 1160 | 49.7 | 637 | 25.1 | 1310 | 24.8 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | |
| | *Analyzed:* | 04.08.2020 18:51 | | 04.08.2020 19:13 | | 04.08.2020 19:34 | | 04.08.2020 19:56 | | 04.08.2020 20:39 | | 04.08.2020 21:01 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 658227

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG-Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.08.2020 09:38
**Report Date:** 04.10.2020 16:18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 658227-013 | | 658227-014 | | 658227-015 | | 658227-016 | | 658227-017 | | 658227-018 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole-46 4.5' | | Bottom Hole-47 4.5' | | Bottom Hole-48 4.5' | | Bottom Hole-49 4.5' | | Bottom Hole-50 4.5' | | Bottom Hole-51 4.5' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.03.2020 15:35 | | 04.03.2020 15:37 | | 04.03.2020 15:39 | | 04.03.2020 15:41 | | 04.03.2020 15:43 | | 04.03.2020 15:45 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | | 04.08.2020 17:00 | |
| | *Analyzed:* | 04.09.2020 11:20 | | 04.09.2020 11:40 | | 04.09.2020 12:00 | | 04.09.2020 12:20 | | 04.09.2020 12:40 | | 04.09.2020 13:00 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Toluene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | |
| | *Analyzed:* | 04.08.2020 17:21 | | 04.08.2020 17:26 | | 04.08.2020 17:32 | | 04.08.2020 17:37 | | 04.08.2020 17:53 | | 04.08.2020 17:58 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 195 | 25.0 | 218 | 25.2 | 183 | 24.8 | 80.4 | 24.9 | 2390 | 24.9 | 2190 | 25.2 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | |
| | *Analyzed:* | 04.08.2020 21:22 | | 04.08.2020 21:43 | | 04.08.2020 22:04 | | 04.08.2020 22:26 | | 04.08.2020 22:47 | | 04.08.2020 23:09 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 658227

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG-Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.08.2020 09:38
**Report Date:** 04.10.2020 16:18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 658227-019 | | 658227-020 | | 658227-021 | | 658227-022 | | 658227-023 | | 658227-024 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole-52 4.5' | | Bottom Hole-53 4.5' | | Bottom Hole-54 4.5' | | Bottom Hole-55 4.5' | | Bottom Hole-56 4.5' | | Bottom Hole-57 4.5' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.03.2020 15:47 | | 04.03.2020 15:49 | | 04.03.2020 15:51 | | 04.03.2020 15:53 | | 04.03.2020 15:55 | | 04.03.2020 15:57 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.08.2020 17:00 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | |
| | *Analyzed:* | 04.09.2020 13:21 | | 04.09.2020 17:23 | | 04.09.2020 17:44 | | 04.09.2020 18:04 | | 04.09.2020 18:24 | | 04.09.2020 18:45 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | |
| | *Analyzed:* | 04.08.2020 18:03 | | 04.08.2020 18:09 | | 04.08.2020 18:14 | | 04.08.2020 18:35 | | 04.08.2020 18:40 | | 04.08.2020 18:56 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 5570 | 49.8 | 4590 | 24.8 | 1890 | 25.0 | 2380 | 25.1 | 2100 | 24.9 | 1410 | 24.8 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | |
| | *Analyzed:* | 04.08.2020 23:30 | | 04.08.2020 23:51 | | 04.08.2020 12:51 | | 04.08.2020 17:04 | | 04.08.2020 17:25 | | 04.08.2020 17:47 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 658227

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG-Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.08.2020 09:38
**Report Date:** 04.10.2020 16:18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 658227-025 | | 658227-026 | | 658227-027 | | 658227-028 | | 658227-029 | | 658227-030 | |
| | ***Field Id:*** | Bottom Hole-58 4.5' | | Bottom Hole-59 4.5' | | Bottom Hole-60 4.5' | | Bottom Hole-61 4.5' | | Bottom Hole-62 4.5' | | Bottom Hole-63 4.5' | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.03.2020 15:59 | | 04.03.2020 16:01 | | 04.03.2020 16:03 | | 04.03.2020 16:05 | | 04.03.2020 16:07 | | 04.03.2020 16:09 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | |
| | ***Analyzed:*** | 04.09.2020 19:05 | | 04.09.2020 19:26 | | 04.09.2020 19:46 | | 04.09.2020 20:06 | | 04.09.2020 20:27 | | 04.09.2020 21:47 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:00 | |
| | ***Analyzed:*** | 04.08.2020 17:05 | | 04.08.2020 19:01 | | 04.08.2020 19:06 | | 04.08.2020 19:12 | | 04.08.2020 19:17 | | 04.08.2020 19:22 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 24.9 | 5.00 | 613 | 25.2 | 4720 | 24.9 | 3450 | 49.6 | 161 | 25.0 | 427 | 25.2 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | |
| | ***Analyzed:*** | 04.08.2020 18:08 | | 04.08.2020 18:30 | | 04.08.2020 18:51 | | 04.08.2020 19:13 | | 04.08.2020 19:34 | | 04.08.2020 19:56 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 658227

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG-Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.08.2020 09:38
**Report Date:** 04.10.2020 16:18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 658227-031 | | 658227-032 | | 658227-033 | | 658227-034 | | 658227-035 | | 658227-036 | |
| | ***Field Id:*** | Bottom Hole-64 4.5' | | Bottom Hole-65 4.5' | | Bottom Hole-66 4.5' | | Bottom Hole-67 4.5' | | Bottom Hole-68 4.5' | | Bottom Hole-69 4.5' | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.03.2020 16:11 | | 04.03.2020 16:13 | | 04.03.2020 16:15 | | 04.03.2020 16:17 | | 04.03.2020 16:19 | | 04.03.2020 16:21 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | |
| | ***Analyzed:*** | 04.09.2020 22:08 | | 04.09.2020 22:28 | | 04.09.2020 22:49 | | 04.09.2020 23:09 | | 04.09.2020 23:29 | | 04.09.2020 23:50 | |
| | ***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 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 |
| Toluene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00399 | 0.00399 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00403 | 0.00403 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00202 | 0.00202 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.08.2020 13:00 | | 04.08.2020 13:00 | | 04.08.2020 13:25 | | 04.08.2020 13:25 | | 04.08.2020 13:25 | | 04.08.2020 13:25 | |
| | ***Analyzed:*** | 04.08.2020 18:19 | | 04.08.2020 19:28 | | 04.08.2020 20:15 | | 04.08.2020 20:20 | | 04.08.2020 20:26 | | 04.08.2020 20:31 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 524 | 4.99 | 1150 | 25.2 | 1380 | 50.3 | 3220 | 49.7 | 1080 | 49.9 | 567 | 25.1 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | |
| | ***Analyzed:*** | 04.08.2020 20:39 | | 04.08.2020 21:01 | | 04.08.2020 21:22 | | 04.08.2020 21:43 | | 04.08.2020 22:04 | | 04.08.2020 22:26 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | 53.5 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | 53.5 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 658227

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG-Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.08.2020 09:38
**Report Date:** 04.10.2020 16:18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 658227-037 | | 658227-038 | | 658227-039 | | 658227-040 | | 658227-041 | | 658227-042 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole-70 4.5' | | North 3 Sidewall | | East 3 Sidewall | | South 1 Sidewall | | West 1 Sidewall 4.5' | | West 2 Sidewall 4.5' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.03.2020 16:23 | | 04.03.2020 14:20 | | 04.03.2020 14:22 | | 04.03.2020 14:24 | | 04.03.2020 14:26 | | 04.03.2020 14:28 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:30 | | 04.09.2020 14:45 | | 04.09.2020 14:45 | | 04.09.2020 14:45 | |
| | *Analyzed:* | 04.10.2020 00:10 | | 04.10.2020 00:31 | | 04.10.2020 00:51 | | 04.10.2020 04:55 | | 04.10.2020 05:15 | | 04.10.2020 05:36 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Toluene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00400 | 0.00400 | <0.00400 | 0.00400 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.08.2020 13:25 | | 04.08.2020 13:25 | | 04.08.2020 13:25 | | 04.08.2020 13:25 | | 04.08.2020 13:25 | | 04.08.2020 13:25 | |
| | *Analyzed:* | 04.08.2020 20:47 | | 04.08.2020 20:52 | | 04.08.2020 20:57 | | 04.08.2020 19:59 | | 04.08.2020 21:02 | | 04.08.2020 21:13 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 2560 | 49.8 | 6950 | 50.0 | 9280 | 100 | 600 | 4.98 | 3250 | 25.0 | 696 X | 4.95 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 10:30 | | 04.08.2020 11:00 | | 04.08.2020 11:00 | |
| | *Analyzed:* | 04.08.2020 22:47 | | 04.08.2020 23:09 | | 04.08.2020 23:30 | | 04.08.2020 23:51 | | 04.08.2020 13:23 | | 04.08.2020 14:18 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# 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. **ND** Not Detected.

**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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122487 **Sample:** 658227-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 05:55

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0389 | 0.0300 | 130 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 06:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0297 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0325 | 0.0300 | 108 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 06:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0377 | 0.0300 | 126 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 06:55

**SURROGATE RECOVERY STUDY**

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

**Lab Batch #:** 3122487 **Sample:** 658227-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 07:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0304 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0362 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122487 **Sample:** 658227-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 07:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0399 | 0.0300 | 133 | 70-130 | ** |

**Lab Batch #:** 3122487 **Sample:** 658227-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 07:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0394 | 0.0300 | 131 | 70-130 | ** |

**Lab Batch #:** 3122487 **Sample:** 658227-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 08:20

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0334 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0385 | 0.0300 | 128 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 08:40

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0379 | 0.0300 | 126 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 09:00

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0365 | 0.0300 | 122 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122487 **Sample:** 658227-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 10:39

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0385 | 0.0300 | 128 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 10:59

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0332 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0391 | 0.0300 | 130 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 11:20

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0330 | 0.0300 | 110 | 70-130 | |
| 4-Bromofluorobenzene | 0.0399 | 0.0300 | 133 | 70-130 | ** |

**Lab Batch #:** 3122487 **Sample:** 658227-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 11:40

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0316 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0356 | 0.0300 | 119 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 12:00

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0390 | 0.0300 | 130 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122487 **Sample:** 658227-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 12:20

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0310 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | 0.0350 | 0.0300 | 117 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-017 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 12:40

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0316 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0365 | 0.0300 | 122 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-018 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 13:00

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0388 | 0.0300 | 129 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-019 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 13:21

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0387 | 0.0300 | 129 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-020 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 17:23

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0404 | 0.0300 | 135 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122572 **Sample:** 658227-021 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 17:44

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0310 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | 0.0382 | 0.0300 | 127 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-022 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 18:04

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0314 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0407 | 0.0300 | 136 | 70-130 | ** |

**Lab Batch #:** 3122572 **Sample:** 658227-023 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 18:24

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0312 | 0.0300 | 104 | 70-130 | |
| 4-Bromofluorobenzene | 0.0403 | 0.0300 | 134 | 70-130 | ** |

**Lab Batch #:** 3122572 **Sample:** 658227-024 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 18:45

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | 0.0377 | 0.0300 | 126 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-025 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 19:05

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0389 | 0.0300 | 130 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122572 **Sample:** 658227-026 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 19:26

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0314 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0401 | 0.0300 | 134 | 70-130 | ** |

**Lab Batch #:** 3122572 **Sample:** 658227-027 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 19:46

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0386 | 0.0300 | 129 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-028 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 20:06

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0400 | 0.0300 | 133 | 70-130 | ** |

**Lab Batch #:** 3122572 **Sample:** 658227-029 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 20:27

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0395 | 0.0300 | 132 | 70-130 | ** |

**Lab Batch #:** 3122572 **Sample:** 658227-030 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 21:47

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0365 | 0.0300 | 122 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122572 **Sample:** 658227-031 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 22:08

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0386 | 0.0300 | 129 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-032 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 22:28

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0362 | 0.0300 | 121 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-033 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 22:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0368 | 0.0300 | 123 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-034 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 23:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0391 | 0.0300 | 130 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-035 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 23:29

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0406 | 0.0300 | 135 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122572 **Sample:** 658227-036 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 23:50

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0398 | 0.0300 | 133 | 70-130 | ** |

**Lab Batch #:** 3122572 **Sample:** 658227-037 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.10.2020 00:10

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0308 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | 0.0391 | 0.0300 | 130 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-038 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.10.2020 00:31

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | 0.0384 | 0.0300 | 128 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 658227-039 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.10.2020 00:51

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0364 | 0.0300 | 121 | 70-130 | |

**Lab Batch #:** 3122631 **Sample:** 658227-040 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.10.2020 04:55

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0316 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0397 | 0.0300 | 132 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122631 **Sample:** 658227-041 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.10.2020 05:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0416 | 0.0300 | 139 | 70-130 | ** |

**Lab Batch #:** 3122631 **Sample:** 658227-042 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.10.2020 05:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0394 | 0.0300 | 131 | 70-130 | ** |

**Lab Batch #:** 3122487 **Sample:** 7700880-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.09.2020 05:34

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0304 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0363 | 0.0300 | 121 | 70-130 | |

**Lab Batch #:** 3122572 **Sample:** 7700997-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.09.2020 17:03

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0358 | 0.0300 | 119 | 70-130 | |

**Lab Batch #:** 3122631 **Sample:** 7701025-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.10.2020 03:54

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0316 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0344 | 0.0300 | 115 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122487 **Sample:** 7700880-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.09.2020 03:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0419 | 0.0300 | 140 | 70-130 | ** |

**Lab Batch #:** 3122572 **Sample:** 7700997-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.09.2020 15:02

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0294 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0363 | 0.0300 | 121 | 70-130 | |

**Lab Batch #:** 3122631 **Sample:** 7701025-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.10.2020 01:52

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0293 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0368 | 0.0300 | 123 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 7700880-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.09.2020 03:55

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0437 | 0.0300 | 146 | 70-130 | ** |

**Lab Batch #:** 3122572 **Sample:** 7700997-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.09.2020 15:22

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0288 | 0.0300 | 96 | 70-130 | |
| 4-Bromofluorobenzene | 0.0339 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122631 **Sample:** 7701025-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.10.2020 02:12

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0292 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0365 | 0.0300 | 122 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 04:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0440 | 0.0300 | 147 | 70-130 | ** |

**Lab Batch #:** 3122572 **Sample:** 658227-021 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 15:43

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0297 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0369 | 0.0300 | 123 | 70-130 | |

**Lab Batch #:** 3122631 **Sample:** 658411-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.10.2020 02:33

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0359 | 0.0300 | 120 | 70-130 | |

**Lab Batch #:** 3122487 **Sample:** 658227-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 04:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0413 | 0.0300 | 138 | 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:** EOG-Rattlesnake Reuse Pit

**Work Orders:** 658227 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3122572 **Sample:** 658227-021 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.09.2020 16:03

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0294 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0356 | 0.0300 | 119 | 70-130 | |

**Lab Batch #:** 3122631 **Sample:** 658411-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.10.2020 02:53

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0303 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0345 | 0.0300 | 115 | 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.

# BS / BSD Recoveries

## Project Name: EOG-Rattlesnake Reuse Pit

**Work Order #:** 658227 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.08.2020 **Date Analyzed:** 04.09.2020

**Lab Batch ID:** 3122487 **Sample:** 7700880-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.110 | 110 | 0.100 | 0.118 | 118 | 7 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0988 | 99 | 0.100 | 0.106 | 106 | 7 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0941 | 94 | 0.100 | 0.102 | 102 | 8 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.206 | 103 | 0.200 | 0.224 | 112 | 8 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.105 | 105 | 0.100 | 0.115 | 115 | 9 | 70-130 | 35 | |

**Analyst:** KTL **Date Prepared:** 04.09.2020 **Date Analyzed:** 04.09.2020

**Lab Batch ID:** 3122572 **Sample:** 7700997-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0860 | 86 | 0.100 | 0.0821 | 82 | 5 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.107 | 107 | 0.100 | 0.101 | 101 | 6 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.115 | 115 | 0.100 | 0.107 | 107 | 7 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.242 | 121 | 0.200 | 0.223 | 112 | 8 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.121 | 121 | 0.100 | 0.112 | 112 | 8 | 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: EOG-Rattlesnake Reuse Pit

**Work Order #:** 658227 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.09.2020 **Date Analyzed:** 04.10.2020

**Lab Batch ID:** 3122631 **Sample:** 7701025-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

### BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0823 | 82 | 0.100 | 0.0842 | 84 | 2 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.102 | 102 | 0.100 | 0.103 | 103 | 1 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.108 | 108 | 0.100 | 0.109 | 109 | 1 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.227 | 114 | 0.200 | 0.227 | 114 | 0 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.116 | 116 | 0.100 | 0.116 | 116 | 0 | 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

# Form 3 - MS / MSD Recoveries

## Project Name: EOG-Rattlesnake Reuse Pit

**Work Order # :** 658227 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3122487 **QC- Sample ID:** 658227-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.09.2020 **Date Prepared:** 04.08.2020 **Analyst:** KTL

**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 | 0.0998 | 0.0960 | 96 | 0.100 | 0.103 | 103 | 7 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.0998 | 0.0880 | 88 | 0.100 | 0.0912 | 91 | 4 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0842 | 84 | 0.100 | 0.0871 | 87 | 3 | 70-130 | 35 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.183 | 92 | 0.200 | 0.190 | 95 | 4 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0932 | 93 | 0.100 | 0.0982 | 98 | 5 | 70-130 | 35 | |

**Lab Batch ID:** 3122572 **QC- Sample ID:** 658227-021 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.09.2020 **Date Prepared:** 04.09.2020 **Analyst:** KTL

**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 | <0.00198 | 0.0992 | 0.0807 | 81 | 0.0998 | 0.0768 | 77 | 5 | 70-130 | 35 | |
| Toluene | <0.00198 | 0.0992 | 0.0994 | 100 | 0.0998 | 0.0941 | 94 | 5 | 70-130 | 35 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.107 | 108 | 0.0998 | 0.101 | 101 | 6 | 70-130 | 35 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.222 | 112 | 0.200 | 0.209 | 105 | 6 | 70-130 | 35 | |
| o-Xylene | <0.00198 | 0.0992 | 0.111 | 112 | 0.0998 | 0.105 | 105 | 6 | 70-130 | 35 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG-Rattlesnake Reuse Pit

**Work Order # :** 658227 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3122631 **QC- Sample ID:** 658411-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.10.2020 **Date Prepared:** 04.09.2020 **Analyst:** KTL

**Reporting Units:** mg/kg

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B<br>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 | 0.0754 | 75 | 0.0996 | 0.0700 | 70 | 7 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0890 | 89 | 0.0996 | 0.0799 | 80 | 11 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0915 | 92 | 0.0996 | 0.0801 | 80 | 13 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.189 | 95 | 0.199 | 0.165 | 83 | 14 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0945 | 95 | 0.0996 | 0.0826 | 83 | 13 | 70-130 | 35 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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.

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Analysis Request of Chain of Custody Record

Page 1 of 5

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG Resources, Inc | **Site Manager:** Mike Carmona |
| **Project Name:** EOG Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells, EOG Environmental Specialist | |
| **Receiving Laboratory:** Xenco Laboratories | **Sampler Signature:** Devin Brown |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO - DRO - ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-34 4.5' | 4/3/2020 | 1345 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-35 | 4/3/2020 | 1347 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-36 | 4/3/2020 | 1349 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-37 | 4/3/2020 | 1351 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-38 | 4/3/2020 | 1353 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-39 | 4/3/2020 | 1355 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-40 | 4/3/2020 | 1357 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-41 | 4/3/2020 | 1359 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-42 | 4/3/2020 | 1401 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-43 | 4/3/2020 | 1403 | | X | | | X | | 1 | | X | X | X | |

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| | 4-8-20 | 0800 | | 4-8-20 | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| | 4-8-20 | 938 | | | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

**LAB USE ONLY**

Sample Temperature
0.6 | 0.3
-0.3 | 0.9

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day (48 hr) 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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Analysis Request of Chain of Custody Record

lese237



# Tetra Tech, Inc.

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

| | |
|---|---|
| Client Name: EOG Resources, Inc | Site Manager: Mike Carmona |
| Project Name: EOG Rattlesnake Reuse Pit | |
| Project Location: (county, state) Lea County, NM | Project #: 212C-MD-01974 |
| Invoice to: Todd Wells, EOG Environmental Specialist | |
| Receiving Laboratory: Xenco Laboratories | Sampler Signature: Devin Brown |
| Comments: | |

ANALYSIS REQUEST
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO-DRO-ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-44 4.5' | 4/3/2020 | 1405 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-45 | 4/3/2020 | 1407 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-46 | 4/3/2020 | 1535 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-47 | 4/3/2020 | 1537 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-48 | 4/3/2020 | 1539 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-49 | 4/3/2020 | 1541 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-50 | 4/3/2020 | 1543 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-51 | 4/3/2020 | 1545 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-52 | 4/3/2020 | 1547 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-53 | 4/3/2020 | 1549 | | X | | | X | | 1 | | X | X | X | |

| | Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|---|
| 1 | | 4-8-20 | 0800 | | 4-8-20 | |
| 2 | | 4-8-20 | 938 | | | |
| 3 | | | | | | |

LAB USE ONLY

Sample Temperature 0.6/0.3

REMARKS:

- ☐ STANDARD
- ☒ RUSH: Same Day — 48 hr — 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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**Analysis Request of Chain of Custody Record**

168227



# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG Resources, Inc | **Site Manager:** | Mike Carmona |
| **Project Name:** | EOG Rattlesnake Reuse Pit | | |
| **Project Location: (county, state)** | Lea County, NM | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | Todd Wells, EOG Environmental Specialist | | |
| **Receiving Laboratory:** | Xenco Laboratories | **Sampler Signature:** | Devin Brown |
| **Comments:** | | | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO DRO ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-54 4.5' | 4/3/2020 | 1551 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-55 | 4/3/2020 | 1553 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-56 | 4/3/2020 | 1555 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-57 | 4/3/2020 | 1557 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-58 | 4/3/2020 | 1559 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-59 | 4/3/2020 | 1601 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-60 | 4/3/2020 | 1603 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-61 | 4/3/2020 | 1605 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-62 | 4/3/2020 | 1607 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-63 | 4/3/2020 | 1609 | | X | | | | X | | | 1 | | X | X | X | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: | Time: | Received by: Date: Time: |
| Relinquished by: | 4-8-20 | 0800 | Received by: 4-8-20 Date: Time: |
| Relinquished by: | 4-8-20 | 958 | Received by: Date: Time: |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |

**LAB USE ONLY**

Sample Temperature 0.4/0.3

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day (48 hr) 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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**Analysis Request of Chain of Custody Record**

158927



# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG Resources, Inc | **Site Manager:** | Mike Carmona |
| **Project Name:** | EOG Rattlesnake Reuse Pit | | |
| **Project Location: (county, state)** | Lea County, NM | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | Todd Wells, EOG Environmental Specialist | | |
| **Receiving Laboratory:** | Xenco Laboratories | **Sampler Signature:** | Devin Brown |
| **Comments:** | | | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO - DRO - ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-64 4.5 | 4/3/2020 | 1611 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-65 | 4/3/2020 | 1613 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-66 | 4/3/2020 | 1615 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-67 | 4/3/2020 | 1617 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-68 | 4/3/2020 | 1619 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-69 | 4/3/2020 | 1621 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-70 | 4/3/2020 | 1623 | | X | | | | X | | | 1 | | X | X | X | |
| | North 3 Sidewall | 4/3/2020 | 1420 | | X | | | | X | | | 1 | | X | X | X | |
| | East 3 Sidewall | 4/3/2020 | 1422 | | X | | | | X | | | 1 | | X | X | X | |
| | South 1 Sidewall | 4/3/2020 | 1424 | | X | | | | X | | | 1 | | X | X | X | |

| | Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|---|
| 1 | | 4-8-20 | 0800 | | | |
| 2 | | 4-8-20 | 938 | | 4-8-20 | |
| 3 | | | | | | |

**LAB USE ONLY**

Sample Temperature 0.4/0.3

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day → 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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**Analysis Request of Chain of Custody Record**

LS6027



# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG Resources, Inc | **Site Manager:** | Mike Carmona |
| **Project Name:** | EOG Rattlesnake Reuse Pit | | |
| **Project Location:** (county, state) | Lea County, NM | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | Todd Wells, EOG Environmental Specialist | | |
| **Receiving Laboratory:** | Xenco Laboratories | **Sampler Signature:** | Devin Brown |
| **Comments:** | | | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO + DRO + ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | West 1 Sidewall 4.5 | 4/3/2020 | 1426 | | X | | | | X | | 1 | | X | X | X | |
| | West 2 Sidewall 4.5 | 4/3/2020 | 1428 | | X | | | | X | | 1 | | X | X | X | |
| | | | | | | | | | | | | | | | | |
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| | | | |
|---|---|---|---|
| Relinquished by: | Date: 4-8-20 | Time: 0800 | Received by: Date: 4-8-20 Time: |
| Relinquished by: | Date: 4-8-20 | Time: 930 | Received by: Date: Time: |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |

**LAB USE ONLY**
Sample Temperature
0.4/0.3

**REMARKS:**
- ☐ STANDARD
- ☒ RUSH: Same Day ~~24 hr~~ 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 04.08.2020 09.38.00 AM

**Work Order #:** 658227

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : R9**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | .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)? | **N/A** |
| #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:** Brianna Teel Date: 04.08.2020

Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 04.08.2020

Jessica Kramer

# Analytical Report 659248

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG Rattlesnake Reuse Pit**

**212C-MD-01974**

**04.23.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.23.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **659248**
**EOG Rattlesnake Reuse Pit**
Project Address: Lea County, NM

**Mike Carmona**:

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) 659248. 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. 659248 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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

# Sample Cross Reference 659248

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| Bottomhole-71 | S | 04.14.2020 13:20 | 2 ft | 659248-001 |
| Bottomhole-72 | S | 04.14.2020 13:22 | 2 ft | 659248-002 |
| Bottomhole-73 | S | 04.14.2020 13:24 | 2 ft | 659248-003 |
| Bottomhole-74 | S | 04.14.2020 13:26 | 2 ft | 659248-004 |
| Bottomhole-75 | S | 04.14.2020 13:38 | 2 ft | 659248-005 |
| Bottomhole-76 | S | 04.14.2020 13:40 | 2 ft | 659248-006 |
| Bottomhole-77 | S | 04.14.2020 13:42 | 2 ft | 659248-007 |
| Bottomhole-78 | S | 04.14.2020 13:44 | 2 ft | 659248-008 |
| Bottomhole-79 | S | 04.14.2020 13:46 | 2 ft | 659248-009 |
| Bottomhole-80 | S | 04.14.2020 13:48 | 2 ft | 659248-010 |
| Bottomhole-81 | S | 04.14.2020 13:50 | 2 ft | 659248-011 |
| Bottomhole-82 | S | 04.14.2020 13:52 | 2 ft | 659248-012 |
| Bottomhole-83 | S | 04.14.2020 13:54 | 2 ft | 659248-013 |
| Bottomhole-84 | S | 04.14.2020 13:56 | 2 ft | 659248-014 |
| Bottomhole-85 | S | 04.14.2020 13:58 | 2 ft | 659248-015 |
| Bottomhole-86 | S | 04.14.2020 14:00 | 2 ft | 659248-016 |
| Bottomhole-87 | S | 04.14.2020 14:02 | 2 ft | 659248-017 |
| Bottomhole-88 | S | 04.14.2020 14:04 | 2 ft | 659248-018 |
| Bottomhole-89 | S | 04.14.2020 14:08 | 2 ft | 659248-019 |
| Bottomhole-90 | S | 04.15.2020 14:12 | 2 ft | 659248-020 |
| Bottomhole-91 | S | 04.15.2020 14:14 | 2 ft | 659248-021 |
| Bottomhole-92 | S | 04.15.2020 14:16 | 2 ft | 659248-022 |
| Bottomhole-93 | S | 04.15.2020 14:18 | 2 ft | 659248-023 |
| Bottomhole-94 | S | 04.15.2020 14:20 | 2 ft | 659248-024 |
| Bottomhole-95 | S | 04.15.2020 14:22 | 4.5 ft | 659248-025 |
| Bottomhole-96 | S | 04.15.2020 14:24 | 2 ft | 659248-026 |
| Bottomhole-97 | S | 04.15.2020 14:26 | 2 ft | 659248-027 |
| Bottomhole-98 | S | 04.15.2020 14:43 | 2 ft | 659248-028 |
| Bottomhole-99 | S | 04.15.2020 14:45 | 2 ft | 659248-029 |
| Bottomhole-100 | S | 04.15.2020 14:47 | 2 ft | 659248-030 |
| Bottomhole-101 | S | 04.15.2020 14:49 | 2 ft | 659248-031 |
| Bottomhole-102 | S | 04.15.2020 14:51 | 2 ft | 659248-032 |
| Bottomhole-103 | S | 04.15.2020 14:53 | 4.5 ft | 659248-033 |
| Bottomhole-104 | S | 04.15.2020 14:55 | 2 ft | 659248-034 |
| Bottomhole-105 | S | 04.15.2020 14:57 | 2 ft | 659248-035 |
| Bottomhole-106 | S | 04.15.2020 15:23 | 2 ft | 659248-036 |
| Bottomhole-107 | S | 04.15.2020 15:25 | 2 ft | 659248-037 |
| Bottomhole-108 | S | 04.15.2020 15:27 | 2 ft | 659248-038 |
| Bottomhole-109 | S | 04.15.2020 15:29 | 2 ft | 659248-039 |
| Bottomhole-110 | S | 04.15.2020 15:31 | 2 ft | 659248-040 |
| Bottomhole-111 | S | 04.15.2020 15:33 | 2 ft | 659248-041 |
| Bottomhole-112 | S | 04.15.2020 15:35 | 2 ft | 659248-042 |
| Bottomhole-113 | S | 04.15.2020 15:37 | 2 ft | 659248-043 |

# Sample Cross Reference 659248

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | |
|---|---|---|---|---|
| Bottomhole-114 | S | 04.15.2020 16:36 | 4.5 ft | 659248-044 |
| Bottomhole-115 | S | 04.15.2020 16:37 | 4.5 ft | 659248-045 |
| Bottomhole-116 | S | 04.16.2020 10:10 | 2 ft | 659248-046 |
| Bottomhole-117 | S | 04.16.2020 10:12 | 2 ft | 659248-047 |
| Bottomhole-118 | S | 04.16.2020 10:14 | 2 ft | 659248-048 |
| Bottomhole-119 | S | 04.16.2020 10:16 | 2 ft | 659248-049 |
| Bottomhole-120 | S | 04.16.2020 10:18 | 2 ft | 659248-050 |
| Bottomhole-121 | S | 04.16.2020 10:20 | 2 ft | 659248-051 |
| Bottomhole-122 | S | 04.16.2020 10:30 | 4.5 ft | 659248-052 |
| Bottomhole-123 | S | 04.16.2020 10:32 | 4.5 ft | 659248-053 |
| Bottomhole-124 | S | 04.16.2020 10:34 | 2 ft | 659248-054 |
| Bottomhole-125 | S | 04.16.2020 10:36 | 2 ft | 659248-055 |
| Bottomhole-126 | S | 04.16.2020 10:38 | 2 ft | 659248-056 |
| Bottomhole-127 | S | 04.16.2020 10:40 | 2 ft | 659248-057 |
| Bottomhole-128 | S | 04.16.2020 12:15 | 4.5 ft | 659248-058 |
| Bottomhole-129 | S | 04.16.2020 12:17 | 4.5 ft | 659248-059 |
| Bottomhole-130 | S | 04.16.2020 12:40 | 2 ft | 659248-060 |
| Bottomhole-131 | S | 04.16.2020 12:22 | 2 ft | 659248-061 |
| Bottomhole-132 | S | 04.16.2020 12:24 | 2 ft | 659248-062 |
| Bottomhole-133 | S | 04.16.2020 12:26 | 2 ft | 659248-063 |
| Bottomhole-134 | S | 04.16.2020 12:28 | 2 ft | 659248-064 |
| Bottomhole-135 | S | 04.16.2020 12:30 | 2 ft | 659248-065 |
| Bottomhole-136 | S | 04.16.2020 13:10 | 2 ft | 659248-066 |
| Bottomhole-137 | S | 04.16.2020 13:12 | 2 ft | 659248-067 |
| Bottomhole-138 | S | 04.16.2020 13:14 | 2 ft | 659248-068 |
| Bottomhole-139 | S | 04.16.2020 13:16 | 2 ft | 659248-069 |
| Bottomhole-140 | S | 04.16.2020 13:18 | 2 ft | 659248-070 |
| Bottomhole-141 | S | 04.16.2020 13:20 | 2 ft | 659248-071 |
| Bottomhole-142 | S | 04.16.2020 13:22 | 2 ft | 659248-072 |
| Bottomhole-143 | S | 04.16.2020 13:24 | 2 ft | 659248-073 |
| Bottomhole-144 | S | 04.16.2020 14:01 | 2 ft | 659248-074 |
| Bottomhole-145 | S | 04.16.2020 14:03 | 2 ft | 659248-075 |
| Bottomhole-146 | S | 04.16.2020 14:05 | 2 ft | 659248-076 |
| Bottomhole-147 | S | 04.16.2020 14:07 | 2 ft | 659248-077 |
| Bottomhole-148 | S | 04.16.2020 14:09 | 2 ft | 659248-078 |
| Bottomhole-149 | S | 04.16.2020 14:11 | 2 ft | 659248-079 |
| Bottomhole-150 | S | 04.16.2020 14:13 | 2 ft | 659248-080 |
| Bottomhole-151 | S | 04.16.2020 14:15 | 2 ft | 659248-081 |
| Bottomhole-152 | S | 04.16.2020 15:07 | 2 ft | 659248-082 |
| Bottomhole-153 | S | 04.16.2020 15:09 | 2 ft | 659248-083 |
| Bottomhole-154 | S | 04.16.2020 15:11 | 2 ft | 659248-084 |
| Bottomhole-155 | S | 04.16.2020 15:13 | 2 ft | 659248-085 |
| Bottomhole-156 | S | 04.16.2020 15:15 | 2 ft | 659248-086 |
| Bottomhole-157 | S | 04.16.2020 15:17 | 2 ft | 659248-087 |

# Sample Cross Reference 659248

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | |
|---|---|---|---|---|
| Bottomhole-158 | S | 04.16.2020 15:19 | 2 ft | 659248-088 |
| Bottomhole-159 | S | 04.16.2020 15:21 | 2 ft | 659248-089 |
| Bottomhole-160 | S | 04.16.2020 15:25 | 4.5 ft | 659248-090 |
| Bottomhole-161 | S | 04.16.2020 15:27 | 2 ft | 659248-091 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *659248*

Report Date: *04.23.2020*
Date Received: *04.20.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3123565 Inorganic Anions by EPA 300/300.1
Lab Sample ID 659248-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 659248-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3123572 Inorganic Anions by EPA 300/300.1
Lab Sample ID 659248-051 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 659248-041, -042, -043, -044, -045, -046, -047, -048, -049, -050, -051, -052, -053, -054, -055, -056, -061, -062, -063, -064.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3123705 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected. Samples affected are: 659248-020.

Lab Sample ID 659248-021 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 659248-014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032.
The Laboratory Control Sample for Benzene is within laboratory Control Limits, therefore the data was accepted.

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *659248*

Report Date: *04.23.2020*
Date Received: *04.20.2020*

Batch: LBA-3123730 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected. Samples affected are: 659248-038,659248-034.

Lab Sample ID 659248-041 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene 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: 659248-033, -034, -035, -036, -037, -038, -039, -040, -041, -042, -043, -044, -045, -046, -047, -048, -049, -050, -051, -052.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-001 | | 659248-002 | | 659248-003 | | 659248-004 | | 659248-005 | | 659248-006 | |
| | ***Field Id:*** | Bottomhole-71 | | Bottomhole-72 | | Bottomhole-73 | | Bottomhole-74 | | Bottomhole-75 | | Bottomhole-76 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.14.2020 13:20 | | 04.14.2020 13:22 | | 04.14.2020 13:24 | | 04.14.2020 13:26 | | 04.14.2020 13:38 | | 04.14.2020 13:40 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | |
| | ***Analyzed:*** | 04.21.2020 05:30 | | 04.21.2020 05:51 | | 04.21.2020 06:11 | | 04.21.2020 06:31 | | 04.21.2020 06:52 | | 04.21.2020 07:12 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00396 | 0.00396 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | |
| | ***Analyzed:*** | 04.20.2020 19:16 | | 04.20.2020 19:21 | | 04.20.2020 19:27 | | 04.20.2020 19:32 | | 04.20.2020 19:00 | | 04.20.2020 19:48 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 2350 | 24.8 | 2470 | 25.0 | 1240 | 25.0 | 3440 | 25.3 | 700 X | 5.03 | 261 | 5.05 |
| **TPH By SW8015 Mod** | ***Extracted:*** | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | |
| | ***Analyzed:*** | 04.20.2020 14:04 | | 04.20.2020 15:07 | | 04.20.2020 15:28 | | 04.20.2020 15:49 | | 04.20.2020 16:11 | | 04.20.2020 16:32 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | 77.9 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | 77.9 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-007 | | 659248-008 | | 659248-009 | | 659248-010 | | 659248-011 | | 659248-012 | |
| | ***Field Id:*** | Bottomhole-77 | | Bottomhole-78 | | Bottomhole-79 | | Bottomhole-80 | | Bottomhole-81 | | Bottomhole-82 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.14.2020 13:42 | | 04.14.2020 13:44 | | 04.14.2020 13:46 | | 04.14.2020 13:48 | | 04.14.2020 13:50 | | 04.14.2020 13:52 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | |
| | ***Analyzed:*** | 04.21.2020 07:33 | | 04.21.2020 07:53 | | 04.21.2020 08:13 | | 04.21.2020 08:34 | | 04.21.2020 12:59 | | 04.21.2020 13:20 | |
| | ***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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| Toluene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00403 | 0.00403 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | |
| | ***Analyzed:*** | 04.20.2020 19:53 | | 04.20.2020 19:58 | | 04.20.2020 20:03 | | 04.20.2020 20:09 | | 04.20.2020 20:14 | | 04.20.2020 20:30 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 411 | 5.05 | 1100 | 25.3 | 2240 | 24.9 | 337 | 4.95 | 332 | 4.96 | 760 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | |
| | ***Analyzed:*** | 04.20.2020 16:53 | | 04.20.2020 17:14 | | 04.20.2020 17:35 | | 04.20.2020 17:56 | | 04.20.2020 18:38 | | 04.20.2020 18:59 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-013 | | 659248-014 | | 659248-015 | | 659248-016 | | 659248-017 | | 659248-018 | |
| | ***Field Id:*** | Bottomhole-83 | | Bottomhole-84 | | Bottomhole-85 | | Bottomhole-86 | | Bottomhole-87 | | Bottomhole-88 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.14.2020 13:54 | | 04.14.2020 13:56 | | 04.14.2020 13:58 | | 04.14.2020 14:00 | | 04.14.2020 14:02 | | 04.14.2020 14:04 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.20.2020 16:30 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | |
| | ***Analyzed:*** | 04.21.2020 13:40 | | 04.21.2020 15:14 | | 04.21.2020 16:14 | | 04.21.2020 16:55 | | 04.21.2020 17:15 | | 04.21.2020 17:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00396 | 0.00396 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:30 | |
| | ***Analyzed:*** | 04.20.2020 20:35 | | 04.20.2020 20:51 | | 04.20.2020 20:56 | | 04.20.2020 21:02 | | 04.20.2020 21:07 | | 04.20.2020 21:12 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 2400 | 25.1 | 2070 | 24.9 | 203 | 4.99 | 280 | 4.99 | 221 | 5.03 | 390 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | |
| | ***Analyzed:*** | 04.20.2020 19:21 | | 04.20.2020 19:42 | | 04.20.2020 20:03 | | 04.20.2020 20:25 | | 04.20.2020 20:46 | | 04.20.2020 21:08 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | 72.1 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Total TPH | | 72.1 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 659248-019 | | 659248-020 | | 659248-021 | | 659248-022 | | 659248-023 | | 659248-024 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-89 | | Bottomhole-90 | | Bottomhole-91 | | Bottomhole-92 | | Bottomhole-93 | | Bottomhole-94 | |
| | *Depth:* | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.14.2020 14:08 | | 04.15.2020 14:12 | | 04.15.2020 14:14 | | 04.15.2020 14:16 | | 04.15.2020 14:18 | | 04.15.2020 14:20 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | |
| | *Analyzed:* | 04.21.2020 17:56 | | 04.21.2020 18:16 | | 04.21.2020 18:36 | | 04.21.2020 18:56 | | 04.21.2020 20:15 | | 04.21.2020 20:35 | |
| | *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 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00402 | 0.00402 | <0.00396 | 0.00396 | <0.00403 | 0.00403 | <0.00399 | 0.00399 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.20.2020 14:30 | | 04.20.2020 14:30 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | |
| | *Analyzed:* | 04.20.2020 21:17 | | 04.20.2020 21:23 | | 04.20.2020 22:10 | | 04.20.2020 21:54 | | 04.20.2020 22:15 | | 04.20.2020 22:21 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 1470 | 25.2 | 6320 | 49.8 | 1360 | 24.9 | 427 | 5.00 | 716 | 4.96 | 580 | 5.03 |
| **TPH By SW8015 Mod** | *Extracted:* | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | |
| | *Analyzed:* | 04.20.2020 21:29 | | 04.20.2020 21:50 | | 04.20.2020 14:04 | | 04.20.2020 15:07 | | 04.20.2020 15:28 | | 04.20.2020 15:49 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | 65.3 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | 65.3 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-025 | | 659248-026 | | 659248-027 | | 659248-028 | | 659248-029 | | 659248-030 | |
| | ***Field Id:*** | Bottomhole-95 | | Bottomhole-96 | | Bottomhole-97 | | Bottomhole-98 | | Bottomhole-99 | | Bottomhole-100 | |
| | ***Depth:*** | 4.5- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.15.2020 14:22 | | 04.15.2020 14:24 | | 04.15.2020 14:26 | | 04.15.2020 14:43 | | 04.15.2020 14:45 | | 04.15.2020 14:47 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 10:00 | |
| | ***Analyzed:*** | 04.21.2020 20:56 | | 04.21.2020 21:16 | | 04.21.2020 21:36 | | 04.21.2020 21:56 | | 04.21.2020 22:16 | | 04.21.2020 22:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00202 | 0.00202 |
| Toluene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00202 | 0.00202 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00202 | 0.00202 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00396 | 0.00396 | <0.00397 | 0.00397 | <0.00403 | 0.00403 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00202 | 0.00202 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00202 | 0.00202 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00202 | 0.00202 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | |
| | ***Analyzed:*** | 04.20.2020 22:26 | | 04.20.2020 22:42 | | 04.20.2020 22:47 | | 04.20.2020 22:52 | | 04.20.2020 22:57 | | 04.20.2020 23:03 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 775 | 4.95 | 2180 | 24.8 | 2720 | 25.1 | 3290 | 24.9 | 60.5 | 5.04 | 44.7 | 4.96 |
| **TPH By SW8015 Mod** | ***Extracted:*** | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | |
| | ***Analyzed:*** | 04.20.2020 16:11 | | 04.20.2020 16:32 | | 04.20.2020 16:53 | | 04.20.2020 17:14 | | 04.20.2020 17:35 | | 04.20.2020 17:56 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-031 | | 659248-032 | | 659248-033 | | 659248-034 | | 659248-035 | | 659248-036 | |
| | ***Field Id:*** | Bottomhole-101 | | Bottomhole-102 | | Bottomhole-103 | | Bottomhole-104 | | Bottomhole-105 | | Bottomhole-106 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 4.5- ft | | 2- ft | | 2- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.15.2020 14:49 | | 04.15.2020 14:51 | | 04.15.2020 14:53 | | 04.15.2020 14:55 | | 04.15.2020 14:57 | | 04.15.2020 15:23 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 10:00 | | 04.21.2020 10:00 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | |
| | ***Analyzed:*** | 04.21.2020 22:56 | | 04.21.2020 23:17 | | 04.22.2020 02:35 | | 04.22.2020 02:55 | | 04.22.2020 03:16 | | 04.22.2020 03:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Toluene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | 0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00399 | 0.00399 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | 0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | |
| | ***Analyzed:*** | 04.20.2020 23:08 | | 04.20.2020 23:24 | | 04.20.2020 23:29 | | 04.20.2020 23:45 | | 04.20.2020 23:50 | | 04.20.2020 23:55 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 573 | 4.95 | 461 | 5.00 | 756 | 4.99 | 540 | 5.05 | 1880 | 24.9 | 855 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | |
| | ***Analyzed:*** | 04.20.2020 18:38 | | 04.20.2020 18:59 | | 04.20.2020 19:21 | | 04.20.2020 19:42 | | 04.20.2020 20:03 | | 04.20.2020 20:25 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-037 | | 659248-038 | | 659248-039 | | 659248-040 | | 659248-041 | | 659248-042 | |
| | ***Field Id:*** | Bottomhole-107 | | Bottomhole-108 | | Bottomhole-109 | | Bottomhole-110 | | Bottomhole-111 | | Bottomhole-112 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.15.2020 15:25 | | 04.15.2020 15:27 | | 04.15.2020 15:29 | | 04.15.2020 15:31 | | 04.15.2020 15:33 | | 04.15.2020 15:35 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | |
| | ***Analyzed:*** | 04.22.2020 03:56 | | 04.22.2020 05:15 | | 04.22.2020 05:35 | | 04.22.2020 05:55 | | 04.22.2020 06:15 | | 04.22.2020 06:35 | |
| | ***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 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Toluene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00400 | 0.00400 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 14:45 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | |
| | ***Analyzed:*** | 04.21.2020 00:01 | | 04.21.2020 00:06 | | 04.21.2020 00:11 | | 04.21.2020 00:16 | | 04.21.2020 01:04 | | 04.21.2020 01:09 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 1860 | 24.9 | 816 | 4.95 | 246 | 5.02 | 344 | 4.98 | 2540 | 25.1 | 5100 | 24.8 |
| **TPH By SW8015 Mod** | ***Extracted:*** | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | 04.20.2020 13:00 | | 04.20.2020 13:00 | |
| | ***Analyzed:*** | 04.20.2020 20:46 | | 04.20.2020 21:08 | | 04.20.2020 21:29 | | 04.20.2020 21:50 | | 04.20.2020 23:37 | | 04.21.2020 00:40 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-043 | | 659248-044 | | 659248-045 | | 659248-046 | | 659248-047 | | 659248-048 | |
| | ***Field Id:*** | Bottomhole-113 | | Bottomhole-114 | | Bottomhole-115 | | Bottomhole-116 | | Bottomhole-117 | | Bottomhole-118 | |
| | ***Depth:*** | 2- ft | | 4.5- ft | | 4.5- ft | | 2- ft | | 2- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.15.2020 15:37 | | 04.15.2020 16:36 | | 04.15.2020 16:37 | | 04.16.2020 10:10 | | 04.16.2020 10:12 | | 04.16.2020 10:14 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | |
| | ***Analyzed:*** | 04.22.2020 07:54 | | 04.22.2020 08:14 | | 04.22.2020 08:35 | | 04.22.2020 08:55 | | 04.22.2020 09:15 | | 04.22.2020 09:35 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Toluene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | |
| | ***Analyzed:*** | 04.21.2020 01:14 | | 04.21.2020 00:48 | | 04.21.2020 01:20 | | 04.21.2020 01:35 | | 04.21.2020 01:41 | | 04.21.2020 01:46 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 733 | 4.98 | 641 | 5.05 | 1390 | 25.0 | 119 | 5.04 | 94.5 | 4.97 | 268 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | |
| | ***Analyzed:*** | 04.21.2020 01:01 | | 04.21.2020 01:23 | | 04.21.2020 01:44 | | 04.21.2020 02:05 | | 04.21.2020 02:27 | | 04.21.2020 02:48 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | 246 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | 246 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-049 | | 659248-050 | | 659248-051 | | 659248-052 | | 659248-053 | | 659248-054 | |
| | ***Field Id:*** | Bottomhole-119 | | Bottomhole-120 | | Bottomhole-121 | | Bottomhole-122 | | Bottomhole-123 | | Bottomhole-124 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 2- ft | | 4.5- ft | | 4.5- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.16.2020 10:16 | | 04.16.2020 10:18 | | 04.16.2020 10:20 | | 04.16.2020 10:30 | | 04.16.2020 10:32 | | 04.16.2020 10:34 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:45 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | |
| | ***Analyzed:*** | 04.22.2020 09:55 | | 04.22.2020 10:15 | | 04.22.2020 10:35 | | 04.22.2020 10:56 | | 04.21.2020 20:02 | | 04.21.2020 20:22 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | |
| | ***Analyzed:*** | 04.21.2020 01:51 | | 04.21.2020 01:57 | | 04.21.2020 02:02 | | 04.21.2020 02:18 | | 04.21.2020 02:23 | | 04.21.2020 02:39 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 1220 | 5.03 | 833 | 4.98 | 367 X | 5.00 | 2230 | 25.3 | 327 | 5.02 | 385 | 4.97 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | |
| | ***Analyzed:*** | 04.21.2020 03:09 | | 04.21.2020 03:30 | | 04.21.2020 04:12 | | 04.21.2020 04:33 | | 04.21.2020 04:54 | | 04.21.2020 05:15 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-055 | | 659248-056 | | 659248-057 | | 659248-058 | | 659248-059 | | 659248-060 | |
| | ***Field Id:*** | Bottomhole-125 | | Bottomhole-126 | | Bottomhole-127 | | Bottomhole-128 | | Bottomhole-129 | | Bottomhole-130 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 2- ft | | 4.5- ft | | 4.5- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.16.2020 10:36 | | 04.16.2020 10:38 | | 04.16.2020 10:40 | | 04.16.2020 12:15 | | 04.16.2020 12:17 | | 04.16.2020 12:40 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | |
| | ***Analyzed:*** | 04.21.2020 20:43 | | 04.21.2020 21:03 | | 04.21.2020 21:24 | | 04.21.2020 21:44 | | 04.21.2020 22:05 | | 04.21.2020 22:25 | |
| | ***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 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| Toluene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00399 | 0.00399 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00403 | 0.00403 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | |
| | ***Analyzed:*** | 04.21.2020 02:44 | | 04.21.2020 02:49 | | 04.20.2020 17:34 | | 04.20.2020 17:40 | | 04.20.2020 17:47 | | 04.20.2020 17:54 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 153 | 4.95 | 364 | 4.95 | 6920 | 49.9 | 2180 | 49.6 | 1180 | 50.4 | 1610 | 25.0 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | |
| | ***Analyzed:*** | 04.21.2020 05:36 | | 04.21.2020 05:57 | | 04.21.2020 06:18 | | 04.21.2020 06:39 | | 04.21.2020 07:00 | | 04.21.2020 07:21 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 659248-061 | | 659248-062 | | 659248-063 | | 659248-064 | | 659248-065 | | 659248-066 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-131 | | Bottomhole-132 | | Bottomhole-133 | | Bottomhole-134 | | Bottomhole-135 | | Bottomhole-136 | |
| | *Depth:* | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.16.2020 12:22 | | 04.16.2020 12:24 | | 04.16.2020 12:26 | | 04.16.2020 12:28 | | 04.16.2020 12:30 | | 04.16.2020 13:10 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | |
| | *Analyzed:* | 04.21.2020 22:45 | | 04.21.2020 23:06 | | 04.22.2020 00:29 | | 04.22.2020 00:49 | | 04.22.2020 01:09 | | 04.22.2020 01:30 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Toluene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00403 | 0.00403 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00396 | 0.00396 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 15:31 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | |
| | *Analyzed:* | 04.21.2020 02:54 | | 04.21.2020 03:00 | | 04.21.2020 03:05 | | 04.21.2020 03:10 | | 04.20.2020 18:15 | | 04.20.2020 17:13 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 400 | 4.95 | 373 | 4.96 | 615 | 5.03 | 850 | 4.98 | 1580 | 24.9 | 621 | 5.02 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | |
| | *Analyzed:* | 04.20.2020 23:37 | | 04.21.2020 00:40 | | 04.21.2020 01:01 | | 04.21.2020 01:23 | | 04.21.2020 01:44 | | 04.21.2020 02:05 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-067 | | 659248-068 | | 659248-069 | | 659248-070 | | 659248-071 | | 659248-072 | |
| | ***Field Id:*** | Bottomhole-137 | | Bottomhole-138 | | Bottomhole-139 | | Bottomhole-140 | | Bottomhole-141 | | Bottomhole-142 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.16.2020 13:12 | | 04.16.2020 13:14 | | 04.16.2020 13:16 | | 04.16.2020 13:18 | | 04.16.2020 13:20 | | 04.16.2020 13:22 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | | 04.21.2020 16:30 | |
| | ***Analyzed:*** | 04.22.2020 01:50 | | 04.22.2020 02:11 | | 04.22.2020 02:31 | | 04.22.2020 02:51 | | 04.22.2020 03:12 | | 04.22.2020 03:32 | |
| | ***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 | <0.00199 | 0.00199 |
| Toluene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00400 | 0.00400 | <0.00403 | 0.00403 | <0.00399 | 0.00399 | <0.00400 | 0.00400 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | |
| | ***Analyzed:*** | 04.20.2020 18:22 | | 04.20.2020 18:28 | | 04.20.2020 18:35 | | 04.20.2020 18:49 | | 04.20.2020 18:42 | | 04.20.2020 19:10 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 362 | 4.95 | 43.6 | 5.01 | 318 | 4.98 | 532 | 5.00 | 10800 | 99.6 | 1190 | 5.05 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | |
| | ***Analyzed:*** | 04.21.2020 02:27 | | 04.21.2020 02:48 | | 04.21.2020 03:09 | | 04.21.2020 03:30 | | 04.21.2020 04:12 | | 04.21.2020 04:33 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-073 | | 659248-074 | | 659248-075 | | 659248-076 | | 659248-077 | | 659248-078 | |
| | ***Field Id:*** | Bottomhole-143 | | Bottomhole-144 | | Bottomhole-145 | | Bottomhole-146 | | Bottomhole-147 | | Bottomhole-148 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.16.2020 13:24 | | 04.16.2020 14:01 | | 04.16.2020 14:03 | | 04.16.2020 14:05 | | 04.16.2020 14:07 | | 04.16.2020 14:09 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | |
| | ***Analyzed:*** | 04.22.2020 07:16 | | 04.22.2020 07:37 | | 04.22.2020 07:57 | | 04.22.2020 08:18 | | 04.22.2020 08:38 | | 04.22.2020 09:48 | |
| | ***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 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | 0.0146 | 0.00201 |
| Toluene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | 0.00665 | 0.00201 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | 0.00376 | 0.00201 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00400 | 0.00400 | <0.00397 | 0.00397 | 0.00593 | 0.00402 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | 0.00358 | 0.00201 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | 0.00951 | 0.00201 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | 0.0345 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:20 | |
| | ***Analyzed:*** | 04.20.2020 19:16 | | 04.20.2020 19:37 | | 04.20.2020 19:44 | | 04.20.2020 19:51 | | 04.20.2020 19:57 | | 04.20.2020 20:04 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 7740 | 49.8 | 1200 | 25.0 | 57.8 | 5.03 | 229 | 4.97 | 308 | 4.99 | 455 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.20.2020 13:00 | |
| | ***Analyzed:*** | 04.21.2020 04:54 | | 04.21.2020 05:15 | | 04.21.2020 05:36 | | 04.21.2020 05:57 | | 04.21.2020 06:18 | | 04.21.2020 06:39 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | 659248-079 | | 659248-080 | | 659248-081 | | 659248-082 | | 659248-083 | | 659248-084 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-149 | | Bottomhole-150 | | Bottomhole-151 | | Bottomhole-152 | | Bottomhole-153 | | Bottomhole-154 | |
| | *Depth:* | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.16.2020 14:11 | | 04.16.2020 14:13 | | 04.16.2020 14:15 | | 04.16.2020 15:07 | | 04.16.2020 15:09 | | 04.16.2020 15:11 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | |
| | *Analyzed:* | 04.22.2020 10:09 | | 04.22.2020 10:29 | | 04.22.2020 10:50 | | 04.22.2020 12:12 | | 04.22.2020 12:33 | | 04.22.2020 12:53 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | 0.00989 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Toluene | | 0.00389 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Ethylbenzene | | 0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total BTEX | | 0.0158 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.20.2020 16:20 | | 04.20.2020 16:20 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | |
| | *Analyzed:* | 04.20.2020 20:11 | | 04.20.2020 20:18 | | 04.20.2020 20:59 | | 04.20.2020 21:20 | | 04.20.2020 21:26 | | 04.20.2020 21:33 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 662 | 5.03 | 793 | 5.01 | 560 | 5.00 | 2220 | 24.9 | 108 | 4.95 | 122 | 4.96 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.20.2020 13:00 | | 04.20.2020 13:00 | | 04.21.2020 11:00 | | 04.21.2020 11:00 | | 04.21.2020 11:00 | | 04.21.2020 11:00 | |
| | *Analyzed:* | 04.21.2020 07:00 | | 04.21.2020 07:21 | | 04.21.2020 12:44 | | 04.21.2020 13:47 | | 04.21.2020 14:08 | | 04.21.2020 14:29 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-085 | | 659248-086 | | 659248-087 | | 659248-088 | | 659248-089 | | 659248-090 | |
| | ***Field Id:*** | Bottomhole-155 | | Bottomhole-156 | | Bottomhole-157 | | Bottomhole-158 | | Bottomhole-159 | | Bottomhole-160 | |
| | ***Depth:*** | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 4.5- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.16.2020 15:13 | | 04.16.2020 15:15 | | 04.16.2020 15:17 | | 04.16.2020 15:19 | | 04.16.2020 15:21 | | 04.16.2020 15:25 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | | 04.21.2020 17:00 | |
| | ***Analyzed:*** | 04.22.2020 13:14 | | 04.22.2020 13:34 | | 04.22.2020 13:54 | | 04.22.2020 14:15 | | 04.22.2020 14:35 | | 04.22.2020 14:56 | |
| | ***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 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Toluene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00399 | 0.00399 | <0.00396 | 0.00396 | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | | 04.20.2020 16:30 | |
| | ***Analyzed:*** | 04.20.2020 21:40 | | 04.20.2020 22:01 | | 04.20.2020 22:08 | | 04.20.2020 22:14 | | 04.20.2020 22:35 | | 04.20.2020 22:21 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 119 | 4.95 | 314 | 5.04 | 312 | 4.99 | 1400 | 24.9 | 656 | 4.95 | 987 | 5.03 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.21.2020 11:00 | | 04.21.2020 11:00 | | 04.21.2020 11:00 | | 04.21.2020 11:00 | | 04.21.2020 11:00 | | 04.21.2020 11:00 | |
| | ***Analyzed:*** | 04.21.2020 14:51 | | 04.21.2020 15:12 | | 04.21.2020 15:33 | | 04.21.2020 15:54 | | 04.21.2020 16:15 | | 04.21.2020 16:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659248

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 04.20.2020 11:10
**Report Date:** 04.23.2020 16:26
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | |
|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659248-091 | | | | | |
| | ***Field Id:*** | Bottomhole-161 | | | | | |
| | ***Depth:*** | 2- ft | | | | | |
| | ***Matrix:*** | SOIL | | | | | |
| | ***Sampled:*** | 04.16.2020 15:27 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.21.2020 17:00 | | | | | |
| | ***Analyzed:*** | 04.22.2020 15:16 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Benzene | | <0.00200 | 0.00200 | | | | |
| Toluene | | <0.00200 | 0.00200 | | | | |
| Ethylbenzene | | <0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | <0.00399 | 0.00399 | | | | |
| o-Xylene | | <0.00200 | 0.00200 | | | | |
| Total Xylenes | | <0.00200 | 0.00200 | | | | |
| Total BTEX | | <0.00200 | 0.00200 | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.20.2020 16:30 | | | | | |
| | ***Analyzed:*** | 04.20.2020 22:28 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Chloride | | 2460 | 24.8 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.21.2020 11:00 | | | | | |
| | ***Analyzed:*** | 04.21.2020 17:18 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | | | | |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | | | | |
| Total TPH | | <50.0 | 50.0 | | | | |

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

Jessica Kramer
Project Manager

# 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. **ND** Not Detected.

**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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123625 **Sample:** 659248-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 05:30

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0341 | 0.0300 | 114 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 05:51

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0333 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0332 | 0.0300 | 111 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 06:11

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0334 | 0.0300 | 111 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 06:31

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0351 | 0.0300 | 117 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 06:52

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0335 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123625 **Sample:** 659248-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 07:12

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0345 | 0.0300 | 115 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 07:33

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0332 | 0.0300 | 111 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 07:53

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0314 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0342 | 0.0300 | 114 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 08:13

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0314 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0340 | 0.0300 | 113 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 08:34

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0329 | 0.0300 | 110 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123625 **Sample:** 659248-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 12:59

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0332 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0294 | 0.0300 | 98 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 13:20

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0341 | 0.0300 | 114 | 70-130 | |
| 4-Bromofluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 13:40

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0336 | 0.0300 | 112 | 70-130 | |
| 4-Bromofluorobenzene | 0.0310 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 15:14

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0321 | 0.0300 | 107 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 16:14

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0293 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0312 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123705 **Sample:** 659248-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 16:55

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0245 | 0.0300 | 82 | 70-130 | |
| 4-Bromofluorobenzene | 0.0304 | 0.0300 | 101 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-017 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 17:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0288 | 0.0300 | 96 | 70-130 | |
| 4-Bromofluorobenzene | 0.0244 | 0.0300 | 81 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-018 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 17:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0316 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-019 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 17:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0289 | 0.0300 | 96 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-020 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 18:16

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0265 | 0.0300 | 88 | 70-130 | |
| 4-Bromofluorobenzene | 0.0206 | 0.0300 | 69 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123705 **Sample:** 659248-021 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 18:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0308 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | 0.0293 | 0.0300 | 98 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-022 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 18:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0244 | 0.0300 | 81 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-053 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 20:02

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0327 | 0.0300 | 109 | 70-130 | |
| 4-Bromofluorobenzene | 0.0331 | 0.0300 | 110 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-023 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 20:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0297 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0213 | 0.0300 | 71 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-054 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 20:22

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0322 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123705 **Sample:** 659248-024 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 20:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0277 | 0.0300 | 92 | 70-130 | |
| 4-Bromofluorobenzene | 0.0241 | 0.0300 | 80 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-055 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 20:43

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0358 | 0.0300 | 119 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-025 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 20:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0313 | 0.0300 | 104 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-056 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 21:03

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0335 | 0.0300 | 112 | 70-130 | |
| 4-Bromofluorobenzene | 0.0349 | 0.0300 | 116 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-026 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 21:16

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0332 | 0.0300 | 111 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123706 **Sample:** 659248-057 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 21:24

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0342 | 0.0300 | 114 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-027 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 21:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0288 | 0.0300 | 96 | 70-130 | |
| 4-Bromofluorobenzene | 0.0248 | 0.0300 | 83 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-058 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 21:44

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0338 | 0.0300 | 113 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-028 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 21:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0298 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0295 | 0.0300 | 98 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-059 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 22:05

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0346 | 0.0300 | 115 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123705 **Sample:** 659248-029 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 22:16

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0262 | 0.0300 | 87 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-060 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 22:25

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0363 | 0.0300 | 121 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-030 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 22:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0296 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0263 | 0.0300 | 88 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-061 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 22:45

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0347 | 0.0300 | 116 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-031 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 22:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0324 | 0.0300 | 108 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123706 **Sample:** 659248-062 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 23:06

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0346 | 0.0300 | 115 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-032 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 23:17

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0340 | 0.0300 | 113 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-063 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 00:29

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0300 | 0.0300 | 100 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-064 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 00:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0350 | 0.0300 | 117 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-065 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 01:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0361 | 0.0300 | 120 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123706 **Sample:** 659248-066 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 01:30

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0356 | 0.0300 | 119 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-067 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 01:50

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0360 | 0.0300 | 120 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-068 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 02:11

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0346 | 0.0300 | 115 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-069 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 02:31

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0310 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-033 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 02:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0303 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0322 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123706 **Sample:** 659248-070 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 02:51

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0338 | 0.0300 | 113 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-034 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 02:55

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0256 | 0.0300 | 85 | 70-130 | |
| 4-Bromofluorobenzene | 0.0207 | 0.0300 | 69 | 70-130 | ** |

**Lab Batch #:** 3123706 **Sample:** 659248-071 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 03:12

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0344 | 0.0300 | 115 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-035 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 03:16

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0324 | 0.0300 | 108 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-072 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 03:32

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | |

* 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123730 **Sample:** 659248-036 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 03:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | 0.0355 | 0.0300 | 118 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-037 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 03:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0325 | 0.0300 | 108 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-038 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 05:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0275 | 0.0300 | 92 | 70-130 | |
| 4-Bromofluorobenzene | 0.0202 | 0.0300 | 67 | 70-130 | ** |

**Lab Batch #:** 3123730 **Sample:** 659248-039 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 05:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0258 | 0.0300 | 86 | 70-130 | |
| 4-Bromofluorobenzene | 0.0211 | 0.0300 | 70 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-040 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 05:55

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0256 | 0.0300 | 85 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123730 **Sample:** 659248-041 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 06:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0296 | 0.0300 | 99 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-042 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 06:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0293 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0245 | 0.0300 | 82 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-073 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 07:16

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0336 | 0.0300 | 112 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-074 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 07:37

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0368 | 0.0300 | 123 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-043 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 07:54

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0278 | 0.0300 | 93 | 70-130 | |
| 4-Bromofluorobenzene | 0.0227 | 0.0300 | 76 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123800 **Sample:** 659248-075 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 07:57

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0350 | 0.0300 | 117 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-044 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 08:14

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0270 | 0.0300 | 90 | 70-130 | |
| 4-Bromofluorobenzene | 0.0245 | 0.0300 | 82 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-076 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 08:18

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0340 | 0.0300 | 113 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-045 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 08:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0368 | 0.0300 | 123 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-077 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 08:38

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0364 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123730 **Sample:** 659248-046 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 08:55

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0298 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0227 | 0.0300 | 76 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-047 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 09:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0283 | 0.0300 | 94 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-048 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 09:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0314 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-078 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 09:48

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0290 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-049 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 09:55

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0292 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0283 | 0.0300 | 94 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123800 **Sample:** 659248-079 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 10:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | 0.0306 | 0.0300 | 102 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-050 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 10:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0336 | 0.0300 | 112 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-080 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 10:29

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0356 | 0.0300 | 119 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-051 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 10:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0325 | 0.0300 | 108 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-081 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 10:50

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0346 | 0.0300 | 115 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123730 **Sample:** 659248-052 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 10:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0298 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0313 | 0.0300 | 104 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-082 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 12:12

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0315 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-083 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 12:33

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0313 | 0.0300 | 104 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-084 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 12:53

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0337 | 0.0300 | 112 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-085 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 13:14

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0330 | 0.0300 | 110 | 70-130 | |
| 4-Bromofluorobenzene | 0.0315 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123800 **Sample:** 659248-086 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 13:34

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0316 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0335 | 0.0300 | 112 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-087 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 13:54

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0360 | 0.0300 | 120 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-088 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 14:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0327 | 0.0300 | 109 | 70-130 | |
| 4-Bromofluorobenzene | 0.0314 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-089 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 14:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0332 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0312 | 0.0300 | 104 | 70-130 | |

**Lab Batch #:** 3123800 **Sample:** 659248-090 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 14:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0346 | 0.0300 | 115 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123800 **Sample:** 659248-091 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 15:16

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0314 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0341 | 0.0300 | 114 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 7701685-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.21.2020 05:10

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0293 | 0.0300 | 98 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 7701747-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.21.2020 14:54

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0291 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0298 | 0.0300 | 99 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 7701746-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.21.2020 19:42

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0305 | 0.0300 | 102 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 7701748-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 02:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0330 | 0.0300 | 110 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123800 **Sample:** 7701749-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 06:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0307 | 0.0300 | 102 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 7701685-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.21.2020 03:08

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0291 | 0.0300 | 97 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 7701747-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.21.2020 12:54

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0297 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0317 | 0.0300 | 106 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 7701746-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.21.2020 17:40

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0286 | 0.0300 | 95 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 7701748-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 00:16

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0297 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0324 | 0.0300 | 108 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123800 **Sample:** 7701749-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 04:34

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0293 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0295 | 0.0300 | 98 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 7701685-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.21.2020 03:29

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0289 | 0.0300 | 96 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 7701747-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.21.2020 13:14

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0304 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0327 | 0.0300 | 109 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 7701746-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.21.2020 18:00

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0298 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0270 | 0.0300 | 90 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 7701748-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 00:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0332 | 0.0300 | 111 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123800 **Sample:** 7701749-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 04:54

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0302 | 0.0300 | 101 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 03:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0291 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0311 | 0.0300 | 104 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-021 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 13:34

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0339 | 0.0300 | 113 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-061 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 18:21

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0298 | 0.0300 | 99 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-041 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 00:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0286 | 0.0300 | 95 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123800 **Sample:** 659138-003 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 05:15

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0290 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0286 | 0.0300 | 95 | 70-130 | |

**Lab Batch #:** 3123625 **Sample:** 659248-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 04:10

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0271 | 0.0300 | 90 | 70-130 | |

**Lab Batch #:** 3123705 **Sample:** 659248-021 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 13:55

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0300 | 0.0300 | 100 | 70-130 | |

**Lab Batch #:** 3123706 **Sample:** 659248-061 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.21.2020 18:41

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0303 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0283 | 0.0300 | 94 | 70-130 | |

**Lab Batch #:** 3123730 **Sample:** 659248-041 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 01:17

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | 0.0227 | 0.0300 | 76 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659248 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123800 **Sample:** 659138-003 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 05:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0294 | 0.0300 | 98 | 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.

# BS / BSD Recoveries

## Project Name: EOG Rattlesnake Reuse Pit

**Work Order #:** 659248 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.20.2020 **Date Analyzed:** 04.21.2020

**Lab Batch ID:** 3123625 **Sample:** 7701685-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0905 | 91 | 0.100 | 0.0958 | 96 | 6 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0858 | 86 | 0.100 | 0.0867 | 87 | 1 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0857 | 86 | 0.100 | 0.0856 | 86 | 0 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.166 | 83 | 0.200 | 0.165 | 83 | 1 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0858 | 86 | 0.100 | 0.0859 | 86 | 0 | 70-130 | 35 | |

**Analyst:** KTL **Date Prepared:** 04.21.2020 **Date Analyzed:** 04.21.2020

**Lab Batch ID:** 3123706 **Sample:** 7701746-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0896 | 90 | 0.100 | 0.0916 | 92 | 2 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0861 | 86 | 0.100 | 0.0850 | 85 | 1 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0871 | 87 | 0.100 | 0.0841 | 84 | 4 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.169 | 85 | 0.200 | 0.160 | 80 | 5 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0874 | 87 | 0.100 | 0.0824 | 82 | 6 | 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: EOG Rattlesnake Reuse Pit

**Work Order #:** 659248 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.21.2020 **Date Analyzed:** 04.21.2020

**Lab Batch ID:** 3123705 **Sample:** 7701747-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0728 | 73 | 0.100 | 0.0721 | 72 | 1 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0859 | 86 | 0.100 | 0.0843 | 84 | 2 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0932 | 93 | 0.100 | 0.0926 | 93 | 1 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.188 | 94 | 0.200 | 0.186 | 93 | 1 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0949 | 95 | 0.100 | 0.0959 | 96 | 1 | 70-130 | 35 | |

**Analyst:** KTL **Date Prepared:** 04.21.2020 **Date Analyzed:** 04.22.2020

**Lab Batch ID:** 3123730 **Sample:** 7701748-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0736 | 74 | 0.100 | 0.0763 | 76 | 4 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0839 | 84 | 0.100 | 0.0870 | 87 | 4 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0899 | 90 | 0.100 | 0.0930 | 93 | 3 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.177 | 89 | 0.200 | 0.187 | 94 | 5 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0936 | 94 | 0.100 | 0.0989 | 99 | 6 | 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: EOG Rattlesnake Reuse Pit

**Work Order #:** 659248 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.21.2020 **Date Analyzed:** 04.22.2020

**Lab Batch ID:** 3123800 **Sample:** 7701749-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

### BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0811 | 81 | 0.100 | 0.0801 | 80 | 1 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0797 | 80 | 0.100 | 0.0804 | 80 | 1 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0811 | 81 | 0.100 | 0.0830 | 83 | 2 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.157 | 79 | 0.200 | 0.162 | 81 | 3 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0818 | 82 | 0.100 | 0.0842 | 84 | 3 | 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

# Form 3 - MS / MSD Recoveries

## Project Name: EOG Rattlesnake Reuse Pit

**Work Order # :** 659248 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123625 **QC- Sample ID:** 659248-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.21.2020 **Date Prepared:** 04.20.2020 **Analyst:** KTL

**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 | 0.0937 | 94 | 0.0992 | 0.101 | 102 | 7 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0906 | 91 | 0.0992 | 0.0881 | 89 | 3 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0924 | 92 | 0.0992 | 0.0869 | 88 | 6 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.181 | 91 | 0.198 | 0.165 | 83 | 9 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0926 | 93 | 0.0992 | 0.0860 | 87 | 7 | 70-130 | 35 | |

**Lab Batch ID:** 3123705 **QC- Sample ID:** 659248-021 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.21.2020 **Date Prepared:** 04.21.2020 **Analyst:** KTL

**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 | 0.0998 | 0.0737 | 74 | 0.0996 | 0.0613 | 62 | 18 | 70-130 | 35 | X |
| Toluene | <0.00200 | 0.0998 | 0.0886 | 89 | 0.0996 | 0.0743 | 75 | 18 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0968 | 97 | 0.0996 | 0.0801 | 80 | 19 | 70-130 | 35 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.195 | 98 | 0.199 | 0.160 | 80 | 20 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.0998 | 0.100 | 100 | 0.0996 | 0.0826 | 83 | 19 | 70-130 | 35 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659248 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123706 **QC- Sample ID:** 659248-061 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.21.2020 **Date Prepared:** 04.21.2020 **Analyst:** KTL

**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 | 0.0998 | 0.0872 | 87 | 0.0996 | 0.0878 | 88 | 1 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.0998 | 0.0858 | 86 | 0.0996 | 0.0848 | 85 | 1 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0875 | 88 | 0.0996 | 0.0862 | 87 | 1 | 70-130 | 35 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.171 | 86 | 0.199 | 0.167 | 84 | 2 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0889 | 89 | 0.0996 | 0.0872 | 88 | 2 | 70-130 | 35 | |

**Lab Batch ID:** 3123730 **QC- Sample ID:** 659248-041 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.22.2020 **Date Prepared:** 04.21.2020 **Analyst:** KTL

**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 | 0.0998 | 0.0394 | 39 | 0.100 | 0.0323 | 32 | 20 | 70-130 | 35 | X |
| Toluene | <0.00200 | 0.0998 | 0.0495 | 50 | 0.100 | 0.0413 | 41 | 18 | 70-130 | 35 | X |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0531 | 53 | 0.100 | 0.0427 | 43 | 22 | 70-130 | 35 | X |
| m,p-Xylenes | <0.00399 | 0.200 | 0.105 | 53 | 0.200 | 0.0851 | 43 | 21 | 70-130 | 35 | X |
| o-Xylene | <0.00200 | 0.0998 | 0.0562 | 56 | 0.100 | 0.0460 | 46 | 20 | 70-130 | 35 | X |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659248 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123800 **QC- Sample ID:** 659138-003 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.22.2020 **Date Prepared:** 04.21.2020 **Analyst:** KTL

**Reporting Units:** mg/kg

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B<br>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 | 0.0894 | 89 | 0.100 | 0.0851 | 85 | 5 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0906 | 91 | 0.100 | 0.0838 | 84 | 8 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0936 | 94 | 0.100 | 0.0859 | 86 | 9 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.183 | 92 | 0.200 | 0.168 | 84 | 9 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0943 | 94 | 0.100 | 0.0875 | 88 | 7 | 70-130 | 35 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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.

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Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

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

659248

| | |
|---|---|
| Client Name: EOG Resources, Inc | Site Manager: Mike Carmona |
| Project Name: EOG Rattlesnake Reuse Pit | |
| Project Location: (county, state) Lea County, NM | Project #: 212C-MD-01974 |
| Invoice to: Todd Wells, EOG Environmental Specialist | |
| Receiving Laboratory: Xenco Laboratories | Sampler Signature: Devin Brown |
| Comments: | |

ANALYSIS REQUEST
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO - DRO - ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-71 2-ft | 4/14/2020 | 1320 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-72 | 4/14/2020 | 1322 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-73 | 4/14/2020 | 1324 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-74 | 4/14/2020 | 1326 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-75 | 4/14/2020 | 1338 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-76 | 4/14/2020 | 1340 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-77 | 4/14/2020 | 1342 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-78 | 4/14/2020 | 1344 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-79 | 4/14/2020 | 1346 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-80 | 4/14/2020 | 1348 | | X | | | | X | | | 1 | | X | X | X | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 4.20.20 | Time: 1110 | Received by: Date: 4/20/20 Time: 1110 |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |

LAB USE ONLY

Sample Temperature 1.6 | 1.3

REMARKS:

- [ ] STANDARD
- [X] 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



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659248

| | | | |
|---|---|---|---|
| Client Name: | EOG Resources, Inc | Site Manager: | Mike Carmona |
| Project Name: | EOG Rattlesnake Reuse Pit | | |
| Project Location: (county, state) | Lea County, NM | Project #: | 212C-MD-01974 |
| Invoice to: | Todd Wells, EOG Environmental Specialist | | |
| Receiving Laboratory: | Xenco Laboratories | Sampler Signature: | Devin Brown |
| Comments: | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-81 | 4/14/2020 | 1350 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-82 | 4/14/2020 | 1352 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-83 | 4/14/2020 | 1354 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-84 | 4/14/2020 | 1356 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-85 | 4/14/2020 | 1358 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-86 | 4/14/2020 | 1400 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-87 | 4/14/2020 | 1402 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-88 | 4/14/2020 | 1404 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-89 | 4/14/2020 | 1408 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-90 | 4/15/2020 | 1412 | | X | | | | X | | | 1 | | X | X | X | |

2-ft

| | Date: | Time: | | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished by: | 4.20.20 | | Received by: | | |
| Relinquished by: | | | Received by: | | |
| Relinquished by: | | | Received by: | | |

LAB USE ONLY

Sample Temperature 1.6/1.3

REMARKS:

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-91 2-ft | 4/15/2020 | 1414 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-92 | 4/15/2020 | 1416 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-93 | 4/15/2020 | 1418 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-94 | 4/15/2020 | 1420 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-95 ~~4-ft~~ 4.5 ft | 4/15/2020 | 1422 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-96 2-ft | 4/15/2020 | 1424 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-97 | 4/15/2020 | 1426 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-98 | 4/15/2020 | 1443 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-99 | 4/15/2020 | 1445 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-100 | 4/15/2020 | 1447 | | X | | | X | | 1 | | X | X | X | |

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|---|---|---|---|---|---|
| | 4.20.20 | | | | |
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ANALYSIS REQUEST
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LAB USE ONLY
Sample Temperature
1.6 | 1.3

REMARKS:
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-101 2-ft | 4/15/2020 | 1449 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-102 | 4/15/2020 | 1451 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-103 ~~4-ft~~ 4.5ft | 4/15/2020 | 1453 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-104 2-ft | 4/15/2020 | 1455 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-105 | 4/15/2020 | 1457 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-106 | 4/15/2020 | 1523 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-107 | 4/15/2020 | 1525 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-108 | 4/15/2020 | 1527 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-109 | 4/15/2020 | 1529 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-110 | 4/15/2020 | 1531 | | X | | | X | | 1 | | X | X | X | |

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| [signature] 4.2020 | | | [signature] | | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

LAB USE ONLY

Sample Temperature 1.6 | 1.3

REMARKS:

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- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole - 111 2-ft | 4/15/2020 | 1533 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole - 112 | 4/15/2020 | 1535 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole - 113 | 4/15/2020 | 1537 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole - 114 4.5 ft | 4/15/2020 | 1636 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole - 115 | 4/15/2020 | 1637 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole - 116 2-ft | 4/16/2020 | 1010 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole - 117 | 4/16/2020 | 1012 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole - 118 | 4/16/2020 | 1014 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole - 119 | 4/16/2020 | 1016 | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole - 120 | 4/16/2020 | 1018 | | X | | | | X | | | 1 | | X | X | X | |

| | | | |
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| Relinquished by: | Date: Time: | Received by: | Date: Time: |
| Relinquished by: 4.2020 | Date: Time: | Received by: | Date: Time: |
| Relinquished by: | Date: Time: | Received by: | Date: Time: |

LAB USE ONLY

Sample Temperature 1.6/1.3

REMARKS:

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659248

Client Name: EOG Resources, Inc
Site Manager: Mike Carmona
Project Name: EOG Rattlesnake Reuse Pit
Project Location: (county, state) Lea County, NM
Project #: 212C-MD-01974
Invoice to: Todd Wells, EOG Environmental Specialist
Receiving Laboratory: Xenco Laboratories
Sampler Signature: Devin Brown
Comments:

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole - 121 2-ft | 4/16/2020 | 1020 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 122 4.5-ft | 4/16/2020 | 1030 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 123 ↓ | 4/16/2020 | 1032 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 124 2-ft | 4/16/2020 | 1034 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 125 ↓ | 4/16/2020 | 1036 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 126 ↓ | 4/16/2020 | 1038 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 127 ↓ | 4/16/2020 | 1040 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 128 4.5-ft | 4/16/2020 | 1215 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 129 ↓ | 4/16/2020 | 1217 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 130 2-ft | 4/16/2020 | 1240 | | X | | | X | | 1 | | X | X | X | |

ANALYSIS REQUEST
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| | 4.20.20 | | | | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

LAB USE ONLY
Sample Temperature 1.6/13

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole - 131 | 4/16/2020 | 1222 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 132 | 4/16/2020 | 1224 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 133 | 4/16/2020 | 1226 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 134 | 4/16/2020 | 1228 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 135 | 4/16/2020 | 1230 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 136 | 4/16/2020 | 1310 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 137 | 4/16/2020 | 1312 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 138 | 4/16/2020 | 1314 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 139 | 4/16/2020 | 1316 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 140 | 4/16/2020 | 1318 | | X | | | X | | 1 | | X | X | X | |

2-ft

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|---|---|---|---|---|---|
| | 4.21.20 | | | | |
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Sample Temperature 1.6 | 1.3

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole - 141 | 4/16/2020 | 1320 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 142 | 4/16/2020 | 1322 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 143 | 4/16/2020 | 1324 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 144 | 4/16/2020 | 1401 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 145 | 4/16/2020 | 1403 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 146 | 4/16/2020 | 1405 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 147 | 4/16/2020 | 1407 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 148 | 4/16/2020 | 1409 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 149 | 4/16/2020 | 1411 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 150 | 4/16/2020 | 1413 | | X | | | X | | 1 | | X | X | X | |

2-ft

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| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO - DRO - ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole - 151 2-ft | 4/16/2020 | 1415 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 152 | 4/16/2020 | 1507 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 153 | 4/16/2020 | 1509 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 154 | 4/16/2020 | 1511 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 155 | 4/16/2020 | 1513 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 156 | 4/16/2020 | 1515 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 157 | 4/16/2020 | 1517 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 158 | 4/16/2020 | 1519 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 159 | 4/16/2020 | 1521 | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole - 160 4.5-ft | 4/16/2020 | 1525 | | X | | | X | | 1 | | X | X | X | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: Time: | Received by: | Date: Time: |
| 4.20.20 | | | |
| Relinquished by: | Date: Time: | Received by: | Date: Time: |
| Relinquished by: | Date: Time: | Received by: | Date: Time: |

LAB USE ONLY

Sample Temperature 1.6/1.3

REMARKS:

- [ ] STANDARD
- [X] RUSH: Same Day 24 hr 48 hr (72 hr)
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Released to Imaging: 7/15/2021 9:51:59 AM
Final 1.000
Page 63 of 65

Received by OCD: 6/29/2021 10:26:12 AM Page 237 of 1291

Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

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

659248

| | |
|---|---|
| Client Name: EOG Resources, Inc | Site Manager: Mike Carmona |
| Project Name: EOG Rattlesnake Reuse Pit | |
| Project Location: (county, state) Lea County, NM | Project #: 212C-MD-01974 |
| Invoice to: Todd Wells, EOG Environmental Specialist | |
| Receiving Laboratory: Xenco Laboratories | Sampler Signature: Devin Brown |
| Comments: | |

ANALYSIS REQUEST
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO - DRO - ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole - 161 2-ft | 4/16/2020 | 1527 | | X | | | X | | 1 | | X | X | X | |

Relinquished by: Date: 4.20.20 Time:
Received by: Date: Time:

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

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

ORIGINAL COPY

LAB USE ONLY
Sample Temperature 1-6/1.3

REMARKS:
- [ ] STANDARD
- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Released to Imaging: 7/15/2021 9:51:59 AM Final 1.000 Page 64 of 65

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 04.20.2020 11.10.00 AM

**Work Order #:** 659248

**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)? | 1.3 | |
| #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** | BTEX and TPH received in bulk jar. |
| #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)? | **N/A** | |
| #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:** Allison Johnson Date: 04.20.2020

**Checklist reviewed by:** Jessica Kramer Date: 04.20.2020

Jessica Kramer

# Analytical Report 659369

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**Rattlesnake Reuse Pit**

**212C-MD-01974**

**04.24.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.24.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **659369**
**Rattlesnake Reuse Pit**
Project Address: Lea Co, NM

**Mike Carmona**:

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) 659369. 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. 659369 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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

# Sample Cross Reference 659369

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| North 4 Sidewall | S | 04.20.2020 00:00 | | 659369-001 |
| North 6 Sidewall | S | 04.20.2020 00:00 | | 659369-002 |
| East 4 Sidewall | S | 04.20.2020 00:00 | | 659369-003 |
| East 5 Sidewall | S | 04.20.2020 00:00 | | 659369-004 |
| East 7 Sidewall | S | 04.20.2020 00:00 | | 659369-005 |
| East 8 Sidewall | S | 04.20.2020 00:00 | | 659369-006 |
| East 9 Sidewall | S | 04.20.2020 00:00 | | 659369-007 |
| South 3 Sidewall | S | 04.20.2020 00:00 | | 659369-008 |
| South 4 Sidewall | S | 04.20.2020 00:00 | | 659369-009 |
| South 5 Sidewall | S | 04.20.2020 00:00 | | 659369-010 |
| West 3 Sidewall | S | 04.20.2020 00:00 | | 659369-011 |
| West 6 Sidewall | S | 04.20.2020 00:00 | | 659369-012 |
| West 8 Sidewall | S | 04.20.2020 00:00 | | 659369-013 |
| West 9 Sidewall | S | 04.20.2020 00:00 | | 659369-014 |
| West 10 Sidewall | S | 04.20.2020 00:00 | | 659369-015 |
| North 8 Sidewall | S | 04.20.2020 00:00 | | 659369-016 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *659369*

Report Date: *04.24.2020*
Date Received: *04.21.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3123939 BTEX by EPA 8021B

Lab Sample ID 659369-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Toluene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 659369-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016.

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

# Certificate of Analysis Summary 659369

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Tue 04.21.2020 14:05
**Report Date:** 04.24.2020 16:31
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 659369-001 | | 659369-002 | | 659369-003 | | 659369-004 | | 659369-005 | | 659369-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | North 4 Sidewall | | North 6 Sidewall | | East 4 Sidewall | | East 5 Sidewall | | East 7 Sidewall | | East 8 Sidewall | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | |
| | *Analyzed:* | 04.23.2020 02:09 | | 04.23.2020 02:29 | | 04.23.2020 02:49 | | 04.23.2020 03:09 | | 04.23.2020 03:30 | | 04.23.2020 04:48 | |
| | *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 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | 0.00354 X | 0.00198 | <0.00199 | 0.00199 | 0.00204 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | 0.00289 | 0.00200 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | 0.00354 | 0.00198 | <0.00199 | 0.00199 | 0.00204 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | 0.00289 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.21.2020 15:45 | | 04.21.2020 15:45 | | 04.21.2020 15:45 | | 04.21.2020 15:45 | | 04.21.2020 15:45 | | 04.21.2020 15:45 | |
| | *Analyzed:* | 04.21.2020 21:06 | | 04.21.2020 21:11 | | 04.21.2020 21:16 | | 04.21.2020 21:37 | | 04.21.2020 21:42 | | 04.21.2020 21:58 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 386 | 5.04 | 791 | 4.97 | 878 | 4.98 | 90.3 | 4.99 | 239 | 4.96 | 441 | 4.97 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.22.2020 10:00 | |
| | *Analyzed:* | 04.22.2020 11:58 | | 04.22.2020 13:03 | | 04.22.2020 13:24 | | 04.22.2020 13:45 | | 04.22.2020 14:06 | | 04.22.2020 14:27 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

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.
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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 Manager

# Certificate of Analysis Summary 659369

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Tue 04.21.2020 14:05
**Report Date:** 04.24.2020 16:31
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 659369-007 | | 659369-008 | | 659369-009 | | 659369-010 | | 659369-011 | | 659369-012 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | East 9 Sidewall | | South 3 Sidewall | | South 4 Sidewall | | South 5 Sidewall | | West 3 Sidewall | | West 6 Sidewall | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | |
| | *Analyzed:* | 04.23.2020 05:09 | | 04.23.2020 05:29 | | 04.23.2020 05:49 | | 04.23.2020 06:09 | | 04.23.2020 07:28 | | 04.23.2020 07:48 | |
| | *Units/RL:* | 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 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Toluene | | 0.00202 | 0.00201 | 0.00229 | 0.00201 | <0.00200 | 0.00200 | 0.00295 | 0.00199 | 0.00328 | 0.00199 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00402 | 0.00402 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total BTEX | | 0.00202 | 0.00201 | 0.00229 | 0.00201 | <0.00200 | 0.00200 | 0.00295 | 0.00199 | 0.00328 | 0.00199 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.21.2020 15:45 | | 04.21.2020 15:45 | | 04.21.2020 15:45 | | 04.21.2020 15:45 | | 04.21.2020 15:45 | | 04.21.2020 15:45 | |
| | *Analyzed:* | 04.21.2020 22:04 | | 04.21.2020 22:09 | | 04.21.2020 22:14 | | 04.21.2020 22:19 | | 04.21.2020 22:25 | | 04.21.2020 22:30 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 276 | 5.00 | 10.2 | 5.03 | 238 | 5.04 | 155 | 5.03 | 158 | 4.99 | 41.7 | 4.97 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.22.2020 10:00 | |
| | *Analyzed:* | 04.22.2020 14:48 | | 04.22.2020 15:10 | | 04.22.2020 15:31 | | 04.22.2020 15:52 | | 04.22.2020 16:34 | | 04.22.2020 16:55 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Total TPH | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |

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 Manager

# Certificate of Analysis Summary 659369

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

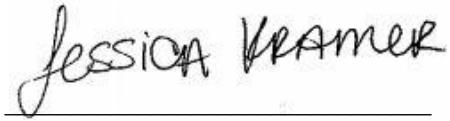
**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Tue 04.21.2020 14:05
**Report Date:** 04.24.2020 16:31
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659369-013 | | 659369-014 | | 659369-015 | | 659369-016 | | | | | | | |
| | ***Field Id:*** | West 8 Sidewall | | West 9 Sidewall | | West 10 Sidewall | | North 8 Sidewall | | | | | | | |
| | ***Depth:*** | | | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | | | | | | |
| | ***Sampled:*** | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | | 04.20.2020 00:00 | | | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | | | | | | |
| | ***Analyzed:*** | 04.23.2020 08:08 | | 04.23.2020 08:28 | | 04.23.2020 08:48 | | 04.23.2020 09:09 | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | | | |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | | | |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | | | |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | | | |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | | | | | | |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | | | |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | | | |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.21.2020 17:15 | | 04.21.2020 17:15 | | 04.21.2020 17:15 | | 04.21.2020 17:15 | | | | | | | |
| | ***Analyzed:*** | 04.21.2020 23:02 | | 04.21.2020 23:17 | | 04.21.2020 23:23 | | 04.21.2020 23:28 | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | | | |
| Chloride | | 67.0 | 5.02 | 318 | 4.98 | 128 | 4.96 | 18.5 | 5.04 | | | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.22.2020 10:00 | | 04.23.2020 14:00 | | | | | | | |
| | ***Analyzed:*** | 04.22.2020 17:16 | | 04.22.2020 17:37 | | 04.22.2020 17:58 | | 04.24.2020 07:19 | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | | | | | | |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | | | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | | | | | | |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | | | | | | |

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



Jessica Kramer
Project Manager

# 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. **ND** Not Detected.

**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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123892 **Sample:** 659369-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 11:58

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 84.7 | 99.7 | 85 | 70-130 | |
| o-Terphenyl | 43.2 | 49.9 | 87 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 13:03

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 85.1 | 100 | 85 | 70-130 | |
| o-Terphenyl | 42.0 | 50.0 | 84 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 13:24

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 78.4 | 99.7 | 79 | 70-130 | |
| o-Terphenyl | 39.1 | 49.9 | 78 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 13:45

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 81.4 | 99.8 | 82 | 70-130 | |
| o-Terphenyl | 40.6 | 49.9 | 81 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 14:06

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 79.3 | 99.9 | 79 | 70-130 | |
| o-Terphenyl | 40.3 | 50.0 | 81 | 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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123892 **Sample:** 659369-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 14:27

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 79.8 | 100 | 80 | 70-130 | |
| o-Terphenyl | 40.1 | 50.0 | 80 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 14:48

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 82.1 | 99.7 | 82 | 70-130 | |
| o-Terphenyl | 41.2 | 49.9 | 83 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 15:10

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 73.4 | 99.6 | 74 | 70-130 | |
| o-Terphenyl | 36.8 | 49.8 | 74 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 15:31

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 77.3 | 99.9 | 77 | 70-130 | |
| o-Terphenyl | 38.9 | 50.0 | 78 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 15:52

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 74.4 | 99.7 | 75 | 70-130 | |
| o-Terphenyl | 37.0 | 49.9 | 74 | 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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123892 **Sample:** 659369-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 16:34

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 76.8 | 99.9 | 77 | 70-130 | |
| o-Terphenyl | 37.3 | 50.0 | 75 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 16:55

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 79.7 | 99.6 | 80 | 70-130 | |
| o-Terphenyl | 40.4 | 49.8 | 81 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 17:16

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 77.3 | 99.7 | 78 | 70-130 | |
| o-Terphenyl | 38.6 | 49.9 | 77 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 17:37

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 77.5 | 99.9 | 78 | 70-130 | |
| o-Terphenyl | 40.5 | 50.0 | 81 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 17:58

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 81.1 | 100 | 81 | 70-130 | |
| o-Terphenyl | 42.1 | 50.0 | 84 | 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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123939 **Sample:** 659369-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 02:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0316 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0337 | 0.0300 | 112 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 02:29

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0321 | 0.0300 | 107 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 02:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | 0.0346 | 0.0300 | 115 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 03:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0294 | 0.0300 | 98 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 03:30

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0292 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0287 | 0.0300 | 96 | 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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123939 **Sample:** 659369-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 04:48

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | 0.0254 | 0.0300 | 85 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 05:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0314 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 05:29

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0296 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0311 | 0.0300 | 104 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 05:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0298 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0355 | 0.0300 | 118 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 06:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | 0.0290 | 0.0300 | 97 | 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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123939 **Sample:** 659369-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 07:28

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0268 | 0.0300 | 89 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 07:48

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0316 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 08:08

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0294 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0309 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 08:28

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0355 | 0.0300 | 118 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 08:48

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0353 | 0.0300 | 118 | 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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123939 **Sample:** 659369-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 09:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0298 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0258 | 0.0300 | 86 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659369-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 07:19

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 83.4 | 99.9 | 83 | 70-130 | |
| o-Terphenyl | 42.5 | 50.0 | 85 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 7701762-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 10:54

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 84.8 | 100 | 85 | 70-130 | |
| o-Terphenyl | 43.1 | 50.0 | 86 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 7701906-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 01:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0283 | 0.0300 | 94 | 70-130 | |
| 4-Bromofluorobenzene | 0.0259 | 0.0300 | 86 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 7701924-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 02:59

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 92.6 | 100 | 93 | 70-130 | |
| o-Terphenyl | 48.8 | 50.0 | 98 | 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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123892 **Sample:** 7701762-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 11:15

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 80.1 | 100 | 80 | 70-130 | |
| o-Terphenyl | 39.2 | 50.0 | 78 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 7701906-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 23:50

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0304 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0331 | 0.0300 | 110 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 7701924-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 03:18

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 116 | 100 | 116 | 70-130 | |
| o-Terphenyl | 53.0 | 50.0 | 106 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 7701762-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 11:36

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 73.4 | 100 | 73 | 70-130 | |
| o-Terphenyl | 36.4 | 50.0 | 73 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 7701906-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 00:10

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0297 | 0.0300 | 99 | 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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124018 **Sample:** 7701924-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 03:36

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 120 | 100 | 120 | 70-130 | |
| o-Terphenyl | 57.0 | 50.0 | 114 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 12:19

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 84.9 | 99.6 | 85 | 70-130 | |
| o-Terphenyl | 43.4 | 49.8 | 87 | 70-130 | |

**Lab Batch #:** 3123939 **Sample:** 659369-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 00:30

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0308 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-021 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 04:13

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | 100 | 102 | 70-130 | |
| o-Terphenyl | 46.8 | 50.0 | 94 | 70-130 | |

**Lab Batch #:** 3123892 **Sample:** 659369-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 12:41

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 92.8 | 99.9 | 93 | 70-130 | |
| o-Terphenyl | 46.8 | 50.0 | 94 | 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:** Rattlesnake Reuse Pit

**Work Orders:** 659369 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123939 **Sample:** 659369-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 00:50

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0303 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0310 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-021 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 04:32

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 105 | 99.7 | 105 | 70-130 | |
| o-Terphenyl | 46.2 | 49.9 | 93 | 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.

# BS / BSD Recoveries

## Project Name: Rattlesnake Reuse Pit

**Work Order #:** 659369 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.22.2020 **Date Analyzed:** 04.22.2020

**Lab Batch ID:** 3123939 **Sample:** 7701906-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0795 | 80 | 0.100 | 0.0810 | 81 | 2 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0929 | 93 | 0.100 | 0.0892 | 89 | 4 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0977 | 98 | 0.100 | 0.0919 | 92 | 6 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.195 | 98 | 0.200 | 0.180 | 90 | 8 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.103 | 103 | 0.100 | 0.0953 | 95 | 8 | 70-130 | 35 | |

**Analyst:** SPC **Date Prepared:** 04.21.2020 **Date Analyzed:** 04.21.2020

**Lab Batch ID:** 3123685 **Sample:** 7701708-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 247 | 99 | 250 | 253 | 101 | 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: Rattlesnake Reuse Pit

**Work Order #:** 659369 **Project ID:** 212C-MD-01974

**Analyst:** SPC **Date Prepared:** 04.21.2020 **Date Analyzed:** 04.21.2020

**Lab Batch ID:** 3123686 **Sample:** 7701724-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 246 | 98 | 250 | 253 | 101 | 3 | 90-110 | 20 | |

**Analyst:** ARM **Date Prepared:** 04.22.2020 **Date Analyzed:** 04.22.2020

**Lab Batch ID:** 3123892 **Sample:** 7701762-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 835 | 84 | 1000 | 806 | 81 | 4 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 877 | 88 | 1000 | 823 | 82 | 6 | 70-130 | 20 | |

**Analyst:** ARM **Date Prepared:** 04.23.2020 **Date Analyzed:** 04.24.2020

**Lab Batch ID:** 3124018 **Sample:** 7701924-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 889 | 89 | 1000 | 980 | 98 | 10 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 969 | 97 | 1000 | 1070 | 107 | 10 | 70-130 | 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: Rattlesnake Reuse Pit

**Work Order # :** 659369 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123939 **QC- Sample ID:** 659369-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.23.2020 **Date Prepared:** 04.22.2020 **Analyst:** KTL

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0998 | 0.0704 | 71 | 0.0994 | 0.0647 | 65 | 8 | 70-130 | 35 | X |
| Toluene | 0.00354 | 0.0998 | 0.0788 | 75 | 0.0994 | 0.0702 | 67 | 12 | 70-130 | 35 | X |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0814 | 82 | 0.0994 | 0.0723 | 73 | 12 | 70-130 | 35 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.159 | 80 | 0.199 | 0.141 | 71 | 12 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0835 | 84 | 0.0994 | 0.0741 | 75 | 12 | 70-130 | 35 | |

**Lab Batch ID:** 3123685 **QC- Sample ID:** 659281-035 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.21.2020 **Date Prepared:** 04.21.2020 **Analyst:** SPC

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 | 24.1 | 248 | 273 | 100 | 248 | 278 | 102 | 2 | 90-110 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: Rattlesnake Reuse Pit

**Work Order # :** 659369 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123685 **QC- Sample ID:** 659281-036 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.21.2020 **Date Prepared:** 04.21.2020 **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 | 77.3 | 251 | 330 | 101 | 251 | 332 | 101 | 1 | 90-110 | 20 | |

**Lab Batch ID:** 3123686 **QC- Sample ID:** 659369-013 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.21.2020 **Date Prepared:** 04.21.2020 **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 | 67.0 | 251 | 325 | 103 | 251 | 325 | 103 | 0 | 90-110 | 20 | |

**Lab Batch ID:** 3123686 **QC- Sample ID:** 659372-007 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.22.2020 **Date Prepared:** 04.21.2020 **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 | 221 | 1240 | 1500 | 103 | 1240 | 1520 | 105 | 1 | 90-110 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: Rattlesnake Reuse Pit

**Work Order # :** 659369 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123892 **QC- Sample ID:** 659369-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.22.2020 **Date Prepared:** 04.22.2020 **Analyst:** ARM

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <49.8 | 996 | 844 | 85 | 999 | 921 | 92 | 9 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <49.8 | 996 | 867 | 87 | 999 | 937 | 94 | 8 | 70-130 | 20 | |

**Lab Batch ID:** 3124018 **QC- Sample ID:** 659444-021 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.24.2020 **Date Prepared:** 04.23.2020 **Analyst:** ARM

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 858 | 86 | 997 | 856 | 86 | 0 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 946 | 95 | 997 | 941 | 94 | 1 | 70-130 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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.

Received by OCD: 9/29/2021 10:56:12 AM Page 256 of 1291

Analysis Request of Chain of Custody Record

6593609

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# Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Rattlesnake Reuse Pit

Project Location: (county, state) Lea Co, NM

Project #: 212C-MD-01974

Invoice to: EOG - Todd Wells

Receiving Laboratory: Xenco

Sampler Signature: Conner Moehring

Comments:

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | North 4 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |
| | North 6 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |
| | East 4 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |
| | East 5 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |
| | East 7 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |
| | East 8 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |
| | East 9 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |
| | South 3 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |
| | South 4 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |
| | South 5 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | |

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by: Date: 4/21/20 Time:

Received by: Date: 4/21 Time: 1405

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 3.6/3.3

REMARKS:

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Released to Imaging: 7/15/2021 9:51:59 AM Final 1.000 Page 24 of 26

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Analysis Request of Chain of Custody Record

6059369

Page 2 of 2

# Tetra Tech, Inc.

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

| | |
|---|---|
| Client Name: EOG | Site Manager: Mike Carmona |
| Project Name: Rattlesnake Reuse Pit | |
| Project Location: (county, state) Lea Co, NM | Project #: 212C-MD-01974 |
| Invoice to: EOG - Todd Wells | |
| Receiving Laboratory: Xenco | Sampler Signature: Conner Moehring |
| Comments: | |

ANALYSIS REQUEST (Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | West 3 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | |
| | West 6 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | |
| | West 8 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | |
| | West 9 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | |
| | West 10 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | |
| | North 8 Sidewall | 4/20/2020 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Hold

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| Conner Moehring | 4/21/20 | | | 4/21 | 1405 |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

ORIGINAL COPY

LAB USE ONLY

Sample Temperature 3.6/33

REMARKS:

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Received by OCD: 6/29/2021 10:56:12 AM
Page 25 of 26
Final 1.000
Released to Imaging: 7/15/2021 9:51:59 AM

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 04.21.2020 02.05.00 PM

**Work Order #:** 659369

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : R9**

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | 3.3 | |
| #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** | BTEX was in bulk container |
| #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)? | **N/A** | |
| #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:** Brianna Teel Date: 04.21.2020
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 04.22.2020
Jessica Kramer

# Analytical Report 659444

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG Rattlesnake Reuse Pit**

**212C-MD-01974**

**04.29.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.29.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **659444**
**EOG Rattlesnake Reuse Pit**
Project Address: Lea County, NM

**Mike Carmona**:

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) 659444. 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. 659444 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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

# Sample Cross Reference 659444

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| Bottomhole-162 2-ft | S | 04.17.2020 00:00 | | 659444-001 |
| Bottomhole-163 2-ft | S | 04.17.2020 00:00 | | 659444-002 |
| Bottomhole-164 2-ft | S | 04.17.2020 00:00 | | 659444-003 |
| Bottomhole-165 2-ft | S | 04.17.2020 00:00 | | 659444-004 |
| Bottomhole-166 2-ft | S | 04.17.2020 00:00 | | 659444-005 |
| Bottomhole-167 2-ft | S | 04.17.2020 00:00 | | 659444-006 |
| Bottomhole-168 2-ft | S | 04.17.2020 00:00 | | 659444-007 |
| Bottomhole-169 2-ft | S | 04.17.2020 00:00 | | 659444-008 |
| Bottomhole-171 2-ft | S | 04.17.2020 00:00 | | 659444-009 |
| Bottomhole-172 2-ft | S | 04.17.2020 00:00 | | 659444-010 |
| Bottomhole-173 2-ft | S | 04.17.2020 00:00 | | 659444-011 |
| Bottomhole-174 2-ft | S | 04.17.2020 00:00 | | 659444-012 |
| Bottomhole-175 2-ft | S | 04.17.2020 00:00 | | 659444-013 |
| Bottomhole-179 2-ft | S | 04.17.2020 00:00 | | 659444-014 |
| Bottomhole-180 2-ft | S | 04.17.2020 00:00 | | 659444-015 |
| Bottomhole-182 2-ft | S | 04.17.2020 00:00 | | 659444-016 |
| Bottomhole-183 2-ft | S | 04.17.2020 00:00 | | 659444-017 |
| Bottomhole-187 2-ft | S | 04.17.2020 00:00 | | 659444-018 |
| Bottomhole-188 2-ft | S | 04.17.2020 00:00 | | 659444-019 |
| Bottomhole-189 2-ft | S | 04.17.2020 00:00 | | 659444-020 |
| Bottomhole-190 2-ft | S | 04.17.2020 00:00 | | 659444-021 |
| Bottomhole-191 2-ft | S | 04.17.2020 00:00 | | 659444-022 |
| Bottomhole-193 2-ft | S | 04.17.2020 00:00 | | 659444-023 |
| Bottomhole-195 2-ft | S | 04.17.2020 00:00 | | 659444-024 |
| Bottomhole-196 2-ft | S | 04.17.2020 00:00 | | 659444-025 |
| Bottomhole-197 2-ft | S | 04.17.2020 00:00 | | 659444-026 |
| Bottomhole-198 2-ft | S | 04.17.2020 00:00 | | 659444-027 |
| Bottomhole-199 2-ft | S | 04.17.2020 00:00 | | 659444-028 |
| Bottomhole-200 2-ft | S | 04.17.2020 00:00 | | 659444-029 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *659444*

Report Date: *04.29.2020*
Date Received: *04.22.2020*

**Sample receipt non conformances and comments:**

V1.001 Revision (client email) Typo on sample 026. Should read Bottomhole 197 @ 2'  JK 04/29/20

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch:  LBA-3124028 BTEX by EPA 8021B

Lab Sample ID 659444-021 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 659444-007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026.

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

Batch:  LBA-3124382 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7702217-1-BKS,7702217-1-BLK,7702217-1-BSD,659444-027 S,659444-027 SD,659444-027,659444-029.

# Certificate of Analysis Summary 659444

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.22.2020 09:06
**Report Date:** 04.29.2020 14:30
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 659444-001 | | 659444-002 | | 659444-003 | | 659444-004 | | 659444-005 | | 659444-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-162 2-ft | | Bottomhole-163 2-ft | | Bottomhole-164 2-ft | | Bottomhole-165 2-ft | | Bottomhole-166 2-ft | | Bottomhole-167 2-ft | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.23.2020 16:00 | | 04.23.2020 16:00 | | 04.23.2020 16:00 | | 04.23.2020 16:00 | | 04.23.2020 16:00 | | 04.23.2020 16:00 | |
| | *Analyzed:* | 04.24.2020 01:07 | | 04.24.2020 01:27 | | 04.24.2020 01:48 | | 04.24.2020 02:08 | | 04.24.2020 02:28 | | 04.24.2020 02:49 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Toluene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | 0.00203 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00401 | 0.00401 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | 0.00203 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | |
| | *Analyzed:* | 04.22.2020 15:39 | | 04.22.2020 15:44 | | 04.22.2020 16:00 | | 04.22.2020 16:05 | | 04.22.2020 16:11 | | 04.22.2020 16:16 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 529 | 4.99 | 69.8 | 5.02 | 117 | 4.97 | 388 | 5.00 | 214 | 5.05 | 392 | 5.05 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | |
| | *Analyzed:* | 04.22.2020 21:32 | | 04.22.2020 22:35 | | 04.22.2020 22:56 | | 04.22.2020 23:18 | | 04.22.2020 23:39 | | 04.23.2020 00:00 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |

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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 Manager

# Certificate of Analysis Summary 659444

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.22.2020 09:06
**Report Date:** 04.29.2020 14:30
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659444-007 | | 659444-008 | | 659444-009 | | 659444-010 | | 659444-011 | | 659444-012 | |
| | ***Field Id:*** | Bottomhole-168 2-ft | | Bottomhole-169 2-ft | | Bottomhole-171 2-ft | | Bottomhole-172 2-ft | | Bottomhole-173 2-ft | | Bottomhole-174 2-ft | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | |
| | ***Analyzed:*** | 04.23.2020 15:33 | | 04.23.2020 15:53 | | 04.23.2020 16:13 | | 04.23.2020 16:33 | | 04.23.2020 16:53 | | 04.23.2020 17:13 | |
| | ***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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Toluene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | 0.00244 | 0.00201 | 0.00209 | 0.00199 | 0.00201 | 0.00198 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00396 | 0.00396 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | 0.00244 | 0.00201 | 0.00209 | 0.00199 | 0.00201 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | |
| | ***Analyzed:*** | 04.22.2020 16:21 | | 04.22.2020 16:26 | | 04.22.2020 16:42 | | 04.22.2020 16:47 | | 04.22.2020 17:03 | | 04.22.2020 17:08 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 179 | 4.97 | 386 | 4.95 | 176 | 5.00 | 199 | 5.02 | 181 | 4.99 | 160 | 5.05 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | |
| | ***Analyzed:*** | 04.23.2020 00:21 | | 04.23.2020 00:42 | | 04.23.2020 01:03 | | 04.23.2020 01:24 | | 04.23.2020 02:06 | | 04.23.2020 02:27 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659444

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.22.2020 09:06
**Report Date:** 04.29.2020 14:30
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659444-013 | | 659444-014 | | 659444-015 | | 659444-016 | | 659444-017 | | 659444-018 | |
| | ***Field Id:*** | Bottomhole-175 2-ft | | Bottomhole-179 2-ft | | Bottomhole-180 2-ft | | Bottomhole-182 2-ft | | Bottomhole-183 2-ft | | Bottomhole-187 2-ft | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | |
| | ***Analyzed:*** | 04.23.2020 17:33 | | 04.23.2020 17:53 | | 04.23.2020 18:14 | | 04.23.2020 19:32 | | 04.23.2020 19:52 | | 04.23.2020 20:13 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | 0.00219 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | 0.00219 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 10:45 | | 04.22.2020 12:00 | |
| | ***Analyzed:*** | 04.22.2020 17:14 | | 04.22.2020 17:19 | | 04.22.2020 17:24 | | 04.22.2020 17:29 | | 04.22.2020 17:35 | | 04.22.2020 18:06 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 166 | 5.02 | 228 | 4.98 | 144 | 5.00 | 162 | 5.00 | 188 | 5.00 | 125 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.22.2020 15:00 | |
| | ***Analyzed:*** | 04.23.2020 02:48 | | 04.23.2020 03:09 | | 04.23.2020 03:30 | | 04.23.2020 03:51 | | 04.23.2020 04:12 | | 04.23.2020 04:33 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659444

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.22.2020 09:06
**Report Date:** 04.29.2020 14:30
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659444-019 | | 659444-020 | | 659444-021 | | 659444-022 | | 659444-023 | | 659444-024 | |
| | ***Field Id:*** | Bottomhole-188 2-ft | | Bottomhole-189 2-ft | | Bottomhole-190 2-ft | | Bottomhole-191 2-ft | | Bottomhole-193 2-ft | | Bottomhole-195 2-ft | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.23.2020 12:30 | |
| | ***Analyzed:*** | 04.23.2020 20:33 | | 04.23.2020 20:53 | | 04.23.2020 15:12 | | 04.23.2020 21:13 | | 04.23.2020 21:33 | | 04.23.2020 21:53 | |
| | ***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 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Toluene | | 0.00274 | 0.00200 | 0.00260 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00397 | 0.00397 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total BTEX | | 0.00274 | 0.00200 | 0.00260 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.22.2020 12:00 | | 04.22.2020 12:00 | | 04.22.2020 12:00 | | 04.22.2020 12:00 | | 04.22.2020 12:00 | | 04.22.2020 12:00 | |
| | ***Analyzed:*** | 04.22.2020 18:22 | | 04.22.2020 18:28 | | 04.22.2020 18:33 | | 04.22.2020 18:38 | | 04.22.2020 18:54 | | 04.22.2020 18:59 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 358 | 4.96 | 429 | 4.99 | 248 | 5.03 | 304 | 4.95 | 420 | 4.95 | 330 | 4.98 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.22.2020 15:00 | | 04.22.2020 15:00 | | 04.23.2020 14:00 | | 04.23.2020 14:00 | | 04.23.2020 14:00 | | 04.23.2020 14:00 | |
| | ***Analyzed:*** | 04.23.2020 04:54 | | 04.23.2020 05:15 | | 04.24.2020 03:55 | | 04.24.2020 04:50 | | 04.24.2020 05:09 | | 04.24.2020 05:27 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659444

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, NM

**Date Received in Lab:** Wed 04.22.2020 09:06
**Report Date:** 04.29.2020 14:30
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659444-025 | | 659444-026 | | 659444-027 | | 659444-028 | | 659444-029 | | | | | | | |
| | ***Field Id:*** | Bottomhole-196 2-ft | | Bottomhole-197 2-ft | | Bottomhole-198 2-ft | | Bottomhole-199 2-ft | | Bottomhole-200 2-ft | | | | | | | |
| | ***Depth:*** | | | | | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | | | | | | |
| | ***Sampled:*** | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | 04.17.2020 00:00 | | | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.23.2020 12:30 | | 04.23.2020 12:30 | | 04.27.2020 12:00 | | 04.27.2020 12:00 | | 04.27.2020 12:00 | | | | | | | |
| | ***Analyzed:*** | 04.23.2020 22:13 | | 04.23.2020 22:33 | | ** ** ** ** | | ** ** ** ** | | 04.27.2020 12:05 | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | | | |
| Benzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | | | | | | |
| Toluene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | | | | | | |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | | | | | | |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00396 | 0.00396 | <0.00402 | 0.00402 | | | | | | |
| o-Xylene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | | | | | | |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | | | | | | |
| Total BTEX | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | | | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.22.2020 12:00 | | 04.22.2020 12:00 | | 04.22.2020 12:00 | | 04.22.2020 12:00 | | 04.22.2020 12:00 | | | | | | | |
| | ***Analyzed:*** | 04.22.2020 19:04 | | 04.22.2020 19:10 | | 04.22.2020 19:15 | | 04.22.2020 19:20 | | 04.22.2020 19:36 | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | | | |
| Chloride | | 129 | 5.00 | 89.2 | 5.04 | 77.6 | 4.97 | 124 | 4.96 | 246 | 5.01 | | | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.23.2020 14:00 | | 04.23.2020 14:00 | | 04.23.2020 14:00 | | 04.23.2020 14:00 | | 04.23.2020 14:00 | | | | | | | |
| | ***Analyzed:*** | 04.24.2020 05:46 | | 04.24.2020 06:05 | | 04.24.2020 06:23 | | 04.24.2020 06:42 | | 04.24.2020 07:01 | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | | | | | | |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | | | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | | | | | | |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | | | | | | |

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Jessica Kramer
Project Manager

# 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. **ND** Not Detected.

**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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123893 **Sample:** 659444-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 21:32

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 74.2 | 99.9 | 74 | 70-130 | |
| o-Terphenyl | 37.9 | 50.0 | 76 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 22:35

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 78.7 | 99.9 | 79 | 70-130 | |
| o-Terphenyl | 38.1 | 50.0 | 76 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 22:56

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 73.8 | 99.7 | 74 | 70-130 | |
| o-Terphenyl | 37.7 | 49.9 | 76 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 23:18

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 75.8 | 99.6 | 76 | 70-130 | |
| o-Terphenyl | 38.1 | 49.8 | 77 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 23:39

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 77.8 | 99.8 | 78 | 70-130 | |
| o-Terphenyl | 39.4 | 49.9 | 79 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123893 **Sample:** 659444-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 00:00

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 80.3 | 100 | 80 | 70-130 | |
| o-Terphenyl | 39.0 | 50.0 | 78 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 00:21

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 79.8 | 99.7 | 80 | 70-130 | |
| o-Terphenyl | 39.3 | 49.9 | 79 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 00:42

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 76.4 | 99.9 | 76 | 70-130 | |
| o-Terphenyl | 37.6 | 50.0 | 75 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 01:03

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 78.7 | 99.6 | 79 | 70-130 | |
| o-Terphenyl | 39.4 | 49.8 | 79 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 01:24

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 77.6 | 99.7 | 78 | 70-130 | |
| o-Terphenyl | 39.2 | 49.9 | 79 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123893 **Sample:** 659444-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 02:06

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 80.7 | 99.9 | 81 | 70-130 | |
| o-Terphenyl | 40.7 | 50.0 | 81 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 02:27

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 77.7 | 99.7 | 78 | 70-130 | |
| o-Terphenyl | 38.3 | 49.9 | 77 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 02:48

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 81.2 | 99.8 | 81 | 70-130 | |
| o-Terphenyl | 40.7 | 49.9 | 82 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 03:09

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 73.1 | 99.9 | 73 | 70-130 | |
| o-Terphenyl | 36.0 | 50.0 | 72 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 03:30

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 77.7 | 100 | 78 | 70-130 | |
| o-Terphenyl | 38.5 | 50.0 | 77 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3123893 **Sample:** 659444-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 03:51

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 81.2 | 99.7 | 81 | 70-130 | |
| o-Terphenyl | 40.4 | 49.9 | 81 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-017 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 04:12

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 81.2 | 99.9 | 81 | 70-130 | |
| o-Terphenyl | 40.0 | 50.0 | 80 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-018 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 04:33

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 81.5 | 100 | 82 | 70-130 | |
| o-Terphenyl | 41.6 | 50.0 | 83 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-019 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 04:54

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 81.3 | 99.7 | 82 | 70-130 | |
| o-Terphenyl | 40.8 | 49.9 | 82 | 70-130 | |

**Lab Batch #:** 3123893 **Sample:** 659444-020 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 05:15

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 84.0 | 99.6 | 84 | 70-130 | |
| o-Terphenyl | 41.9 | 49.8 | 84 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124028 **Sample:** 659444-021 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 15:12

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0303 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0310 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 15:33

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0330 | 0.0300 | 110 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 15:53

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0331 | 0.0300 | 110 | 70-130 | |
| 4-Bromofluorobenzene | 0.0362 | 0.0300 | 121 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 16:13

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0314 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0301 | 0.0300 | 100 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 16:33

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0266 | 0.0300 | 89 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124028 **Sample:** 659444-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 16:53

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0368 | 0.0300 | 123 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 17:13

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0354 | 0.0300 | 118 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 17:33

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0334 | 0.0300 | 111 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 17:53

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0342 | 0.0300 | 114 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 18:14

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0272 | 0.0300 | 91 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124028 **Sample:** 659444-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 19:32

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0294 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0303 | 0.0300 | 101 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-017 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 19:52

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0334 | 0.0300 | 111 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-018 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 20:13

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0336 | 0.0300 | 112 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-019 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 20:33

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0330 | 0.0300 | 110 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-020 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 20:53

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0332 | 0.0300 | 111 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124028 **Sample:** 659444-022 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 21:13

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0341 | 0.0300 | 114 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-023 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 21:33

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0330 | 0.0300 | 110 | 70-130 | |
| 4-Bromofluorobenzene | 0.0364 | 0.0300 | 121 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-024 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 21:53

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0292 | 0.0300 | 97 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-025 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 22:13

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0298 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0280 | 0.0300 | 93 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-026 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 22:33

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0297 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0257 | 0.0300 | 86 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124026 **Sample:** 659444-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 01:07

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0342 | 0.0300 | 114 | 70-130 | |

**Lab Batch #:** 3124026 **Sample:** 659444-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 01:27

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0334 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0329 | 0.0300 | 110 | 70-130 | |

**Lab Batch #:** 3124026 **Sample:** 659444-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 01:48

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0297 | 0.0300 | 99 | 70-130 | |

**Lab Batch #:** 3124026 **Sample:** 659444-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 02:08

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0348 | 0.0300 | 116 | 70-130 | |

**Lab Batch #:** 3124026 **Sample:** 659444-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 02:28

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0347 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124026 **Sample:** 659444-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 02:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0347 | 0.0300 | 116 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-021 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 03:55

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 88.8 | 99.7 | 89 | 70-130 | |
| o-Terphenyl | 45.6 | 49.9 | 91 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-022 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 04:50

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 85.3 | 99.8 | 85 | 70-130 | |
| o-Terphenyl | 43.1 | 49.9 | 86 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-023 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 05:09

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 85.4 | 99.9 | 85 | 70-130 | |
| o-Terphenyl | 43.3 | 50.0 | 87 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-024 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 05:27

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 83.1 | 99.7 | 83 | 70-130 | |
| o-Terphenyl | 42.3 | 49.9 | 85 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124018 **Sample:** 659444-025 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 05:46

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 83.9 | 99.6 | 84 | 70-130 | |
| o-Terphenyl | 42.5 | 49.8 | 85 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-026 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 06:05

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 86.5 | 99.9 | 87 | 70-130 | |
| o-Terphenyl | 44.3 | 50.0 | 89 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-027 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 06:23

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 84.2 | 100 | 84 | 70-130 | |
| o-Terphenyl | 41.6 | 50.0 | 83 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-028 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 06:42

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 84.4 | 99.6 | 85 | 70-130 | |
| o-Terphenyl | 42.8 | 49.8 | 86 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-029 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 07:01

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 87.0 | 99.8 | 87 | 70-130 | |
| o-Terphenyl | 43.4 | 49.9 | 87 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124382 **Sample:** 659444-027 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.27.2020 11:24

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0441 | 0.0300 | 147 | 70-130 | ** |

**Lab Batch #:** 3124382 **Sample:** 659444-028 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.27.2020 11:45

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0304 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0266 | 0.0300 | 89 | 70-130 | |

**Lab Batch #:** 3124382 **Sample:** 659444-029 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.27.2020 12:05

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0332 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0465 | 0.0300 | 155 | 70-130 | ** |

**Lab Batch #:** 3123893 **Sample:** 7701817-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 20:28

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 86.3 | 100 | 86 | 70-130 | |
| o-Terphenyl | 43.2 | 50.0 | 86 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 7701970-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 14:52

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0291 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0277 | 0.0300 | 92 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124018 **Sample:** 7701924-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 02:59

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 92.6 | 100 | 93 | 70-130 | |
| o-Terphenyl | 48.8 | 50.0 | 98 | 70-130 | |

**Lab Batch #:** 3124026 **Sample:** 7701972-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 12:38

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0310 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | 0.0280 | 0.0300 | 93 | 70-130 | |

**Lab Batch #:** 3124382 **Sample:** 7702217-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.27.2020 11:04

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0308 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | 0.0407 | 0.0300 | 136 | 70-130 | ** |

**Lab Batch #:** 3123893 **Sample:** 7701817-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 20:49

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 82.2 | 100 | 82 | 70-130 | |
| o-Terphenyl | 41.6 | 50.0 | 83 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 7701970-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 12:52

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0296 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0327 | 0.0300 | 109 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124026 **Sample:** 7701972-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 22:45

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0306 | 0.0300 | 102 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 7701924-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 03:18

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 116 | 100 | 116 | 70-130 | |
| o-Terphenyl | 53.0 | 50.0 | 106 | 70-130 | |

**Lab Batch #:** 3124382 **Sample:** 7702217-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.27.2020 15:26

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0455 | 0.0300 | 152 | 70-130 | ** |

**Lab Batch #:** 3123893 **Sample:** 7701817-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.22.2020 21:10

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 82.8 | 100 | 83 | 70-130 | |
| o-Terphenyl | 42.9 | 50.0 | 86 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 7701970-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 13:12

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0314 | 0.0300 | 105 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124026 **Sample:** 7701972-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 23:05

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0303 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0308 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 7701924-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 03:36

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 120 | 100 | 120 | 70-130 | |
| o-Terphenyl | 57.0 | 50.0 | 114 | 70-130 | |

**Lab Batch #:** 3124382 **Sample:** 7702217-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.27.2020 09:26

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0453 | 0.0300 | 151 | 70-130 | ** |

**Lab Batch #:** 3123893 **Sample:** 659444-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 21:53

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 78.2 | 99.7 | 78 | 70-130 | |
| o-Terphenyl | 38.7 | 49.9 | 78 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-021 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 13:32

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0331 | 0.0300 | 110 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124026 **Sample:** 659444-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 23:26

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0301 | 0.0300 | 100 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-021 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 04:13

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | 100 | 102 | 70-130 | |
| o-Terphenyl | 46.8 | 50.0 | 94 | 70-130 | |

**Lab Batch #:** 3124382 **Sample:** 659444-027 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.27.2020 09:46

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0458 | 0.0300 | 153 | 70-130 | ** |

**Lab Batch #:** 3123893 **Sample:** 659444-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.22.2020 22:14

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 77.7 | 99.6 | 78 | 70-130 | |
| o-Terphenyl | 39.0 | 49.8 | 78 | 70-130 | |

**Lab Batch #:** 3124028 **Sample:** 659444-021 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 13:52

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0354 | 0.0300 | 118 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659444 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124026 **Sample:** 659444-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 23:46

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0293 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0309 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3124018 **Sample:** 659444-021 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 04:32

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 105 | 99.7 | 105 | 70-130 | |
| o-Terphenyl | 46.2 | 49.9 | 93 | 70-130 | |

**Lab Batch #:** 3124382 **Sample:** 659444-027 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.27.2020 10:06

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0466 | 0.0300 | 155 | 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.

# BS / BSD Recoveries

## Project Name: EOG Rattlesnake Reuse Pit

**Work Order #:** 659444 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.23.2020 **Date Analyzed:** 04.23.2020

**Lab Batch ID:** 3124028 **Sample:** 7701970-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0722 | 72 | 0.100 | 0.0757 | 76 | 5 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0845 | 85 | 0.100 | 0.0890 | 89 | 5 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0939 | 94 | 0.100 | 0.0973 | 97 | 4 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.188 | 94 | 0.200 | 0.197 | 99 | 5 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0962 | 96 | 0.100 | 0.101 | 101 | 5 | 70-130 | 35 | |

**Analyst:** KTL **Date Prepared:** 04.23.2020 **Date Analyzed:** 04.23.2020

**Lab Batch ID:** 3124026 **Sample:** 7701972-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0845 | 85 | 0.100 | 0.0942 | 94 | 11 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0847 | 85 | 0.100 | 0.0932 | 93 | 10 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0867 | 87 | 0.100 | 0.0956 | 96 | 10 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.169 | 85 | 0.200 | 0.187 | 94 | 10 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0875 | 88 | 0.100 | 0.0970 | 97 | 10 | 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: EOG Rattlesnake Reuse Pit

**Work Order #:** 659444 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.27.2020 **Date Analyzed:** 04.27.2020

**Lab Batch ID:** 3124382 **Sample:** 7702217-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.102 | 102 | 0.100 | 0.102 | 102 | 0 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.107 | 107 | 0.100 | 0.108 | 108 | 1 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.104 | 104 | 0.100 | 0.107 | 107 | 3 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.226 | 113 | 0.200 | 0.234 | 117 | 3 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.114 | 114 | 0.100 | 0.116 | 116 | 2 | 70-130 | 35 | |

**Analyst:** CHE **Date Prepared:** 04.22.2020 **Date Analyzed:** 04.22.2020

**Lab Batch ID:** 3123839 **Sample:** 7701763-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 244 | 98 | 250 | 249 | 100 | 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: EOG Rattlesnake Reuse Pit

**Work Order #:** 659444 **Project ID:** 212C-MD-01974

**Analyst:** CHE **Date Prepared:** 04.22.2020 **Date Analyzed:** 04.22.2020

**Lab Batch ID:** 3123902 **Sample:** 7701772-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 246 | 98 | 250 | 244 | 98 | 1 | 90-110 | 20 | |

**Analyst:** ARM **Date Prepared:** 04.22.2020 **Date Analyzed:** 04.22.2020

**Lab Batch ID:** 3123893 **Sample:** 7701817-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 836 | 84 | 1000 | 859 | 86 | 3 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 881 | 88 | 1000 | 886 | 89 | 1 | 70-130 | 20 | |

**Analyst:** ARM **Date Prepared:** 04.23.2020 **Date Analyzed:** 04.24.2020

**Lab Batch ID:** 3124018 **Sample:** 7701924-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 889 | 89 | 1000 | 980 | 98 | 10 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 969 | 97 | 1000 | 1070 | 107 | 10 | 70-130 | 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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659444 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124026 **QC- Sample ID:** 659444-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.23.2020 **Date Prepared:** 04.23.2020 **Analyst:** KTL

**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 | <0.00198 | 0.0992 | 0.0890 | 90 | 0.0998 | 0.0871 | 87 | 2 | 70-130 | 35 | |
| Toluene | <0.00198 | 0.0992 | 0.0891 | 90 | 0.0998 | 0.0897 | 90 | 1 | 70-130 | 35 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.0897 | 90 | 0.0998 | 0.0920 | 92 | 3 | 70-130 | 35 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.176 | 89 | 0.200 | 0.181 | 91 | 3 | 70-130 | 35 | |
| o-Xylene | <0.00198 | 0.0992 | 0.0912 | 92 | 0.0998 | 0.0935 | 94 | 2 | 70-130 | 35 | |

**Lab Batch ID:** 3124028 **QC- Sample ID:** 659444-021 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.23.2020 **Date Prepared:** 04.23.2020 **Analyst:** KTL

**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 | <0.00199 | 0.0996 | 0.0722 | 72 | 0.100 | 0.0689 | 69 | 5 | 70-130 | 35 | X |
| Toluene | <0.00199 | 0.0996 | 0.0797 | 80 | 0.100 | 0.0782 | 78 | 2 | 70-130 | 35 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0850 | 85 | 0.100 | 0.0827 | 83 | 3 | 70-130 | 35 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.169 | 85 | 0.200 | 0.166 | 83 | 2 | 70-130 | 35 | |
| o-Xylene | <0.00199 | 0.0996 | 0.0876 | 88 | 0.100 | 0.0873 | 87 | 0 | 70-130 | 35 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659444 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124382 **QC- Sample ID:** 659444-027 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.27.2020 **Date Prepared:** 04.27.2020 **Analyst:** KTL

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0998 | 0.0845 | 85 | 0.0992 | 0.0855 | 86 | 1 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.0998 | 0.0860 | 86 | 0.0992 | 0.0850 | 86 | 1 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0803 | 80 | 0.0992 | 0.0771 | 78 | 4 | 70-130 | 35 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.174 | 87 | 0.198 | 0.166 | 84 | 5 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0885 | 89 | 0.0992 | 0.0846 | 85 | 5 | 70-130 | 35 | |

**Lab Batch ID:** 3123839 **QC- Sample ID:** 659402-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.22.2020 **Date Prepared:** 04.22.2020 **Analyst:** CHE

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 | 6.00 | 249 | 263 | 103 | 249 | 258 | 101 | 2 | 90-110 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659444 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123839 **QC- Sample ID:** 659444-008 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.22.2020 **Date Prepared:** 04.22.2020 **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 | 386 | 248 | 618 | 94 | 248 | 617 | 93 | 0 | 90-110 | 20 | |

**Lab Batch ID:** 3123902 **QC- Sample ID:** 659444-018 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.22.2020 **Date Prepared:** 04.22.2020 **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 | 125 | 250 | 376 | 100 | 250 | 373 | 99 | 1 | 90-110 | 20 | |

**Lab Batch ID:** 3123902 **QC- Sample ID:** 659444-028 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.22.2020 **Date Prepared:** 04.22.2020 **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 | 124 | 248 | 374 | 101 | 248 | 374 | 101 | 0 | 90-110 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659444 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123893 **QC- Sample ID:** 659444-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.22.2020 **Date Prepared:** 04.22.2020 **Analyst:** ARM

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <49.9 | 997 | 815 | 82 | 996 | 810 | 81 | 1 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 829 | 83 | 996 | 818 | 82 | 1 | 70-130 | 20 | |

**Lab Batch ID:** 3124018 **QC- Sample ID:** 659444-021 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.24.2020 **Date Prepared:** 04.23.2020 **Analyst:** ARM

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 858 | 86 | 997 | 856 | 86 | 0 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 946 | 95 | 997 | 941 | 94 | 1 | 70-130 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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.

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**Analysis Request of Chain of Custody Record**

Lab Sample Number: 605444



# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG Resources, Inc | **Site Manager:** Mike Carmona |
| **Project Name:** EOG Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells, EOG Environmental Specialist | |
| **Receiving Laboratory:** Xenco Laboratories | **Sampler Signature:** Devin Brown |
| **Comments:** | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO - DRO - ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-162 2-ft | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-163 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-164 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-165 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-166 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-167 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-168 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-169 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-171 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-172 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| | 4.22.20 | | | 4/22 | 0900 |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

**LAB USE ONLY**

Sample Temperature: 3.4 | 3.1

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr **72 hr**
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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**Analysis Request of Chain of Custody Record**

LeS94444



# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG Resources, Inc | **Site Manager:** Mike Carmona |
| **Project Name:** EOG Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells, EOG Environmental Specialist | |
| **Receiving Laboratory:** Xenco Laboratories | **Sampler Signature:** Devin Brown |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO - DRO - ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-173 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-174 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-175 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-179 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-180 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-182 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-183 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-187 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-188 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |
| | Bottomhole-189 | 4/17/2020 | | | X | | | X | | 1 | | X | X | X | |

| | Date: | Time: | | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished by: | 4.22.20 | | Received by: | 4/22 | 904 |
| Relinquished by: | | | Received by: | | |
| Relinquished by: | | | Received by: | | |

**LAB USE ONLY**
Sample Temperature 3.4/3.1

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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**Analysis Request of Chain of Custody Record**

605444



# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG Resources, Inc | **Site Manager:** | Mike Carmona |
| **Project Name:** | EOG Rattlesnake Reuse Pit | | |
| **Project Location: (county, state)** | Lea County, NM | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | Todd Wells, EOG Environmental Specialist | | |
| **Receiving Laboratory:** | Xenco Laboratories | **Sampler Signature:** | Devin Brown |
| **Comments:** | | | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2018 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | Chloride 300 Method | TPH 8015M (GRO - DRO - ORO) | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-190 2-f4 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-191 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-193 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-195 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-196 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-197 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-198 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-199 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | Bottomhole-200 | 4/17/2020 | | | X | | | | X | | | 1 | | X | X | X | |
| | | | | | | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: Time: | Received by: | Date: Time: |
| 4.22.20 | | | 4/22 900 |
| Relinquished by: | Date: Time: | Received by: | Date: Time: |
| Relinquished by: | Date: Time: | Received by: | Date: Time: |

**LAB USE ONLY**

Sample Temperature
34/3.1

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr **72 hr**
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 04.22.2020 09.06.00 AM

**Work Order #:** 659444

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : R9**

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | 3.1 | |
| #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** | BTEX was in bulk container |
| #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)? | **N/A** | |
| #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:** Brianna Teel Date: 04.22.2020

Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 04.22.2020

Jessica Kramer

# Analytical Report 659506

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG Rattlesnake Reuse Pit**

**212C-MD-01974**

**04.28.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.28.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **659506**
**EOG Rattlesnake Reuse Pit**
Project Address: Lea Co, NM

**Mike Carmona**:

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) 659506. 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. 659506 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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# Sample Cross Reference 659506

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| Bottom Hole #202 (2'BEB) | S | 04.21.2020 00:00 | | 659506-001 |
| Bottom Hole #203 (2'BEB) | S | 04.21.2020 00:00 | | 659506-002 |
| Bottom Hole #204 (2'BEB) | S | 04.21.2020 00:00 | | 659506-003 |
| Bottom Hole #205 (2'BEB) | S | 04.21.2020 00:00 | | 659506-004 |
| Bottom Hole #206 (2'BEB) | S | 04.21.2020 00:00 | | 659506-005 |
| Bottom Hole #207 (2'BEB) | S | 04.21.2020 00:00 | | 659506-006 |
| Bottom Hole #208 (2'BEB) | S | 04.21.2020 00:00 | | 659506-007 |
| Bottom Hole #209 (2'BEB) | S | 04.21.2020 00:00 | | 659506-008 |
| Bottom Hole #210 (2'BEB) | S | 04.21.2020 00:00 | | 659506-009 |
| Bottom Hole #211 (2'BEB) | S | 04.21.2020 00:00 | | 659506-010 |
| Bottom Hole #212 (2'BEB) | S | 04.21.2020 00:00 | | 659506-011 |
| Bottom Hole #213 (2'BEB) | S | 04.21.2020 00:00 | | 659506-012 |
| Bottom Hole #214 (2'BEB) | S | 04.21.2020 00:00 | | 659506-013 |
| Bottom Hole #215 (2'BEB) | S | 04.21.2020 00:00 | | 659506-014 |
| Bottom Hole #216 (2'BEB) | S | 04.21.2020 00:00 | | 659506-015 |
| Bottom Hole #217 (2'BEB) | S | 04.21.2020 00:00 | | 659506-016 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *659506*

Report Date: *04.28.2020*
Date Received: *04.22.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3124229 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 659506-001,659506-002,659506-003,659506-004,659506-010,659506-007,659506-008,659506-009,659506-005.

# Certificate of Analysis Summary 659506

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Wed 04.22.2020 11:33
**Report Date:** 04.28.2020 12:44
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659506-001 | | 659506-002 | | 659506-003 | | 659506-004 | | 659506-005 | | 659506-006 | |
| | ***Field Id:*** | Bottom Hole #202 (2'BEB | | Bottom Hole #203 (2'BEB | | Bottom Hole #204 (2'BEB | | Bottom Hole #205 (2'BEB | | Bottom Hole #206 (2'BEB | | Bottom Hole #207 (2'BEB | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.26.2020 16:30 | | 04.26.2020 16:30 | | 04.26.2020 16:30 | | 04.26.2020 16:30 | | 04.26.2020 16:30 | | 04.26.2020 16:30 | |
| | ***Analyzed:*** | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | 04.26.2020 17:49 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00396 | 0.00396 | <0.00402 | 0.00402 | <0.00401 | 0.00401 | <0.00397 | 0.00397 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:10 | |
| | ***Analyzed:*** | 04.23.2020 11:45 | | 04.23.2020 12:38 | | 04.23.2020 12:43 | | 04.23.2020 12:49 | | 04.23.2020 12:54 | | 04.23.2020 12:59 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 348 | 5.05 | 183 | 4.97 | 203 | 4.99 | 379 | 5.00 | 240 | 5.03 | 41.8 | 4.97 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | |
| | ***Analyzed:*** | 04.23.2020 11:44 | | 04.23.2020 12:48 | | 04.23.2020 13:09 | | 04.23.2020 13:30 | | 04.23.2020 13:52 | | 04.23.2020 14:13 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659506

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Wed 04.22.2020 11:33
**Report Date:** 04.28.2020 12:44
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659506-007 | | 659506-008 | | 659506-009 | | 659506-010 | | 659506-011 | | 659506-012 | |
| | ***Field Id:*** | Bottom Hole #208 (2'BEB | | Bottom Hole #209 (2'BEB | | Bottom Hole #210 (2'BEB | | Bottom Hole #211 (2'BEB | | Bottom Hole #212 (2'BEB | | Bottom Hole #213 (2'BEB | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.26.2020 16:30 | | 04.26.2020 16:30 | | 04.26.2020 16:30 | | 04.26.2020 16:30 | | 04.26.2020 16:30 | | 04.26.2020 16:30 | |
| | ***Analyzed:*** | 04.26.2020 18:09 | | 04.26.2020 18:29 | | 04.26.2020 18:49 | | 04.26.2020 19:09 | | 04.26.2020 20:28 | | 04.26.2020 20:48 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:10 | |
| | ***Analyzed:*** | 04.23.2020 13:15 | | 04.23.2020 13:20 | | 04.23.2020 13:36 | | 04.23.2020 13:41 | | 04.27.2020 22:45 | | 04.23.2020 13:52 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 297 | 4.96 | 496 | 4.95 | 273 | 5.02 | 180 | 4.98 | 550 | 4.98 | 222 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | |
| | ***Analyzed:*** | 04.23.2020 14:34 | | 04.23.2020 14:55 | | 04.23.2020 15:16 | | 04.23.2020 15:37 | | 04.23.2020 16:20 | | 04.23.2020 16:41 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659506

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Wed 04.22.2020 11:33
**Report Date:** 04.28.2020 12:44
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659506-013 | | 659506-014 | | 659506-015 | | 659506-016 | | | | | |
| | ***Field Id:*** | Bottom Hole #214 (2'BEB | | Bottom Hole #215 (2'BEB | | Bottom Hole #216 (2'BEB | | Bottom Hole #217 (2'BEB | | | | | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | | 04.21.2020 00:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.24.2020 17:00 | | 04.24.2020 17:00 | | 04.24.2020 17:00 | | 04.24.2020 17:00 | | | | | |
| | ***Analyzed:*** | 04.24.2020 20:21 | | 04.24.2020 20:41 | | 04.24.2020 21:02 | | 04.24.2020 21:22 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Toluene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00402 | 0.00402 | | | | |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Total BTEX | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:10 | | 04.22.2020 14:45 | | | | | |
| | ***Analyzed:*** | 04.23.2020 13:57 | | 04.23.2020 14:02 | | 04.23.2020 14:08 | | 04.23.2020 01:56 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 214 | 5.00 | 201 | 5.04 | 110 | 4.98 | 59.3 | 5.02 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | | 04.23.2020 10:00 | | | | | |
| | ***Analyzed:*** | 04.23.2020 17:02 | | 04.23.2020 17:23 | | 04.23.2020 17:44 | | 04.23.2020 18:05 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |

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Jessica Kramer
Project Manager

# 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. **ND** Not Detected.

**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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124019 **Sample:** 659506-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 11:44

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 85.2 | 99.9 | 85 | 70-130 | |
| o-Terphenyl | 45.2 | 50.0 | 90 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 12:48

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 87.2 | 99.9 | 87 | 70-130 | |
| o-Terphenyl | 42.2 | 50.0 | 84 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 13:09

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 81.6 | 99.8 | 82 | 70-130 | |
| o-Terphenyl | 42.3 | 49.9 | 85 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 13:30

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 86.2 | 99.7 | 86 | 70-130 | |
| o-Terphenyl | 43.6 | 49.9 | 87 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 13:52

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 95.8 | 99.6 | 96 | 70-130 | |
| o-Terphenyl | 48.2 | 49.8 | 97 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124019 **Sample:** 659506-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 14:13

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 91.1 | 99.9 | 91 | 70-130 | |
| o-Terphenyl | 45.1 | 50.0 | 90 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 14:34

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 93.1 | 100 | 93 | 70-130 | |
| o-Terphenyl | 49.4 | 50.0 | 99 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 14:55

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 96.8 | 99.7 | 97 | 70-130 | |
| o-Terphenyl | 48.7 | 49.9 | 98 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 15:16

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 98.1 | 99.9 | 98 | 70-130 | |
| o-Terphenyl | 50.7 | 50.0 | 101 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 15:37

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 99.3 | 99.6 | 100 | 70-130 | |
| o-Terphenyl | 52.8 | 49.8 | 106 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124019 **Sample:** 659506-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 16:20

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 106 | 100 | 106 | 70-130 | |
| o-Terphenyl | 52.1 | 50.0 | 104 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 16:41

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 97.0 | 99.7 | 97 | 70-130 | |
| o-Terphenyl | 48.1 | 49.9 | 96 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 17:02

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 89.5 | 99.6 | 90 | 70-130 | |
| o-Terphenyl | 49.0 | 49.8 | 98 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 17:23

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 99.6 | 99.9 | 100 | 70-130 | |
| o-Terphenyl | 49.3 | 50.0 | 99 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 17:44

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 103 | 100 | 103 | 70-130 | |
| o-Terphenyl | 50.4 | 50.0 | 101 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124019 **Sample:** 659506-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 18:05

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 98.8 | 99.7 | 99 | 70-130 | |
| o-Terphenyl | 50.2 | 49.9 | 101 | 70-130 | |

**Lab Batch #:** 3124252 **Sample:** 659506-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 20:21

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | 0.0299 | 0.0300 | 100 | 70-130 | |

**Lab Batch #:** 3124252 **Sample:** 659506-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 20:41

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0296 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0318 | 0.0300 | 106 | 70-130 | |

**Lab Batch #:** 3124252 **Sample:** 659506-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 21:02

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0339 | 0.0300 | 113 | 70-130 | |

**Lab Batch #:** 3124252 **Sample:** 659506-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 21:22

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0304 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0295 | 0.0300 | 98 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124229 **Sample:** 659506-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 15:08

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0347 | 0.0300 | 116 | 70-130 | |
| 4-Bromofluorobenzene | 0.0418 | 0.0300 | 139 | 70-130 | ** |

**Lab Batch #:** 3124229 **Sample:** 659506-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 15:28

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0349 | 0.0300 | 116 | 70-130 | |
| 4-Bromofluorobenzene | 0.0421 | 0.0300 | 140 | 70-130 | ** |

**Lab Batch #:** 3124229 **Sample:** 659506-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 15:48

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0359 | 0.0300 | 120 | 70-130 | |
| 4-Bromofluorobenzene | 0.0426 | 0.0300 | 142 | 70-130 | ** |

**Lab Batch #:** 3124229 **Sample:** 659506-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 16:08

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0364 | 0.0300 | 121 | 70-130 | |
| 4-Bromofluorobenzene | 0.0442 | 0.0300 | 147 | 70-130 | ** |

**Lab Batch #:** 3124229 **Sample:** 659506-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 16:29

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0348 | 0.0300 | 116 | 70-130 | |
| 4-Bromofluorobenzene | 0.0409 | 0.0300 | 136 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124229 **Sample:** 659506-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 17:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0304 | 0.0300 | 101 | 70-130 | |

**Lab Batch #:** 3124229 **Sample:** 659506-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 18:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0346 | 0.0300 | 115 | 70-130 | |
| 4-Bromofluorobenzene | 0.0401 | 0.0300 | 134 | 70-130 | ** |

**Lab Batch #:** 3124229 **Sample:** 659506-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 18:29

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0339 | 0.0300 | 113 | 70-130 | |
| 4-Bromofluorobenzene | 0.0433 | 0.0300 | 144 | 70-130 | ** |

**Lab Batch #:** 3124229 **Sample:** 659506-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 18:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0364 | 0.0300 | 121 | 70-130 | |
| 4-Bromofluorobenzene | 0.0429 | 0.0300 | 143 | 70-130 | ** |

**Lab Batch #:** 3124229 **Sample:** 659506-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 19:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0345 | 0.0300 | 115 | 70-130 | |
| 4-Bromofluorobenzene | 0.0406 | 0.0300 | 135 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124229 **Sample:** 659506-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 20:28

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0276 | 0.0300 | 92 | 70-130 | |

**Lab Batch #:** 3124229 **Sample:** 659506-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 20:48

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0338 | 0.0300 | 113 | 70-130 | |
| 4-Bromofluorobenzene | 0.0388 | 0.0300 | 129 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 7701918-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 10:41

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 91.4 | 100 | 91 | 70-130 | |
| o-Terphenyl | 49.8 | 50.0 | 100 | 70-130 | |

**Lab Batch #:** 3124252 **Sample:** 7702106-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 20:00

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0294 | 0.0300 | 98 | 70-130 | |

**Lab Batch #:** 3124229 **Sample:** 7702104-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.26.2020 14:48

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0324 | 0.0300 | 108 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124019 **Sample:** 7701918-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 11:02

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 99.5 | 100 | 100 | 70-130 | |
| o-Terphenyl | 52.4 | 50.0 | 105 | 70-130 | |

**Lab Batch #:** 3124252 **Sample:** 7702106-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 17:59

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0270 | 0.0300 | 90 | 70-130 | |

**Lab Batch #:** 3124229 **Sample:** 7702104-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.26.2020 12:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0339 | 0.0300 | 113 | 70-130 | |
| 4-Bromofluorobenzene | 0.0388 | 0.0300 | 129 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 7701918-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.23.2020 11:23

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 92.4 | 100 | 92 | 70-130 | |
| o-Terphenyl | 49.6 | 50.0 | 99 | 70-130 | |

**Lab Batch #:** 3124252 **Sample:** 7702106-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.24.2020 18:19

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0312 | 0.0300 | 104 | 70-130 | |
| 4-Bromofluorobenzene | 0.0280 | 0.0300 | 93 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124229 **Sample:** 7702104-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.26.2020 13:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0336 | 0.0300 | 112 | 70-130 | |
| 4-Bromofluorobenzene | 0.0391 | 0.0300 | 130 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 12:06

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 82.6 | 99.7 | 83 | 70-130 | |
| o-Terphenyl | 43.9 | 49.9 | 88 | 70-130 | |

**Lab Batch #:** 3124252 **Sample:** 659506-013 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 18:40

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0312 | 0.0300 | 104 | 70-130 | |
| 4-Bromofluorobenzene | 0.0269 | 0.0300 | 90 | 70-130 | |

**Lab Batch #:** 3124229 **Sample:** 659506-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 13:29

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0359 | 0.0300 | 120 | 70-130 | |
| 4-Bromofluorobenzene | 0.0296 | 0.0300 | 99 | 70-130 | |

**Lab Batch #:** 3124019 **Sample:** 659506-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.23.2020 12:27

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 83.1 | 99.6 | 83 | 70-130 | |
| o-Terphenyl | 45.8 | 49.8 | 92 | 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:** EOG Rattlesnake Reuse Pit

**Work Orders:** 659506 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124252 **Sample:** 659506-013 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.24.2020 19:00

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0296 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0242 | 0.0300 | 81 | 70-130 | |

**Lab Batch #:** 3124229 **Sample:** 659506-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.26.2020 13:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0346 | 0.0300 | 115 | 70-130 | |
| 4-Bromofluorobenzene | 0.0252 | 0.0300 | 84 | 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.

# BS / BSD Recoveries

## Project Name: EOG Rattlesnake Reuse Pit

**Work Order #:** 659506 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.26.2020 **Date Analyzed:** 04.26.2020

**Lab Batch ID:** 3124229 **Sample:** 7702104-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.114 | 114 | 0.100 | 0.106 | 106 | 7 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.110 | 110 | 0.100 | 0.102 | 102 | 8 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.107 | 107 | 0.100 | 0.101 | 101 | 6 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.232 | 116 | 0.200 | 0.219 | 110 | 6 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.115 | 115 | 0.100 | 0.108 | 108 | 6 | 70-130 | 35 | |

**Analyst:** KTL **Date Prepared:** 04.24.2020 **Date Analyzed:** 04.24.2020

**Lab Batch ID:** 3124252 **Sample:** 7702106-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0829 | 83 | 0.100 | 0.0880 | 88 | 6 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0860 | 86 | 0.100 | 0.0891 | 89 | 4 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0890 | 89 | 0.100 | 0.0906 | 91 | 2 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.170 | 85 | 0.200 | 0.170 | 85 | 0 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0881 | 88 | 0.100 | 0.0887 | 89 | 1 | 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: EOG Rattlesnake Reuse Pit

**Work Order #:** 659506 **Project ID:** 212C-MD-01974

**Analyst:** CHE **Date Prepared:** 04.22.2020 **Date Analyzed:** 04.23.2020

**Lab Batch ID:** 3123933 **Sample:** 7701796-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 249 | 100 | 250 | 245 | 98 | 2 | 90-110 | 20 | |

**Analyst:** CHE **Date Prepared:** 04.22.2020 **Date Analyzed:** 04.23.2020

**Lab Batch ID:** 3123895 **Sample:** 7701797-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 248 | 99 | 250 | 244 | 98 | 2 | 90-110 | 20 | |

**Analyst:** CHE **Date Prepared:** 04.27.2020 **Date Analyzed:** 04.27.2020

**Lab Batch ID:** 3124299 **Sample:** 7702132-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 242 | 97 | 250 | 237 | 95 | 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: EOG Rattlesnake Reuse Pit

**Work Order #:** 659506 **Project ID:** 212C-MD-01974

**Analyst:** ARM **Date Prepared:** 04.23.2020 **Date Analyzed:** 04.23.2020

**Lab Batch ID:** 3124019 **Sample:** 7701918-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

### BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 930 | 93 | 1000 | 869 | 87 | 7 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1030 | 103 | 1000 | 972 | 97 | 6 | 70-130 | 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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659506 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124229 **QC- Sample ID:** 659506-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.26.2020 **Date Prepared:** 04.26.2020 **Analyst:** KTL

**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 | 0.0998 | 0.0866 | 87 | 0.0994 | 0.0767 | 77 | 12 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.0998 | 0.0851 | 85 | 0.0994 | 0.0768 | 77 | 10 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0826 | 83 | 0.0994 | 0.0710 | 71 | 15 | 70-130 | 35 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.174 | 87 | 0.199 | 0.149 | 75 | 15 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0890 | 89 | 0.0994 | 0.0771 | 78 | 14 | 70-130 | 35 | |

**Lab Batch ID:** 3124252 **QC- Sample ID:** 659506-013 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.24.2020 **Date Prepared:** 04.24.2020 **Analyst:** KTL

**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 | <0.00199 | 0.0996 | 0.0912 | 92 | 0.0998 | 0.0870 | 87 | 5 | 70-130 | 35 | |
| Toluene | <0.00199 | 0.0996 | 0.0919 | 92 | 0.0998 | 0.0887 | 89 | 4 | 70-130 | 35 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0978 | 98 | 0.0998 | 0.0933 | 93 | 5 | 70-130 | 35 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.182 | 91 | 0.200 | 0.172 | 86 | 6 | 70-130 | 35 | |
| o-Xylene | <0.00199 | 0.0996 | 0.0929 | 93 | 0.0998 | 0.0868 | 87 | 7 | 70-130 | 35 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659506 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123895 **QC- Sample ID:** 659450-002 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.23.2020 **Date Prepared:** 04.22.2020 **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 | 5.43 | 250 | 257 | 101 | 250 | 258 | 101 | 0 | 90-110 | 20 | |

**Lab Batch ID:** 3123895 **QC- Sample ID:** 659506-016 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.23.2020 **Date Prepared:** 04.22.2020 **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 | 59.3 | 251 | 306 | 98 | 251 | 303 | 97 | 1 | 90-110 | 20 | |

**Lab Batch ID:** 3123933 **QC- Sample ID:** 659506-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.23.2020 **Date Prepared:** 04.22.2020 **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 | 348 | 253 | 625 | 109 | 253 | 596 | 98 | 5 | 90-110 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659506 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3123933 **QC- Sample ID:** 659506-006 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.23.2020 **Date Prepared:** 04.22.2020 **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 | 41.8 | 249 | 301 | 104 | 249 | 296 | 102 | 2 | 90-110 | 20 | |

**Lab Batch ID:** 3124299 **QC- Sample ID:** 659785-078 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.27.2020 **Date Prepared:** 04.27.2020 **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 | 13.0 | 251 | 250 | 94 | 251 | 261 | 99 | 4 | 90-110 | 20 | |

**Lab Batch ID:** 3124299 **QC- Sample ID:** 659785-088 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.27.2020 **Date Prepared:** 04.27.2020 **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 | 44.0 | 252 | 278 | 93 | 252 | 281 | 94 | 1 | 90-110 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse Pit

**Work Order # :** 659506 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124019 **QC- Sample ID:** 659506-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.23.2020 **Date Prepared:** 04.23.2020 **Analyst:** ARM

**Reporting Units:** mg/kg

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| TPH By SW8015 Mod<br>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) | <49.9 | 997 | 839 | 84 | 996 | 847 | 85 | 1 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 975 | 98 | 996 | 995 | 100 | 2 | 70-130 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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.

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Analysis Request of Chain of Custody Record

Lab 9504

Page 1 of 2

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | YEAR: 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bottom Hole #202 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Bottom Hole #203 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Bottom Hole #204 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Bottom Hole #205 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Bottom Hole #206 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Bottom Hole #207 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Bottom Hole #208 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Bottom Hole #209 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Bottom Hole #210 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Bottom Hole #211 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Tom Mooney | Date: 4/22/20 | Time: 1133 | Received by: BW |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: 4/22 Time: 1133

**LAB USE ONLY**

Sample Temperature 1-8/1.4

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 6/29/2021 10:26:12 AM
Page 26 of 28
Final 1.001
Released to Imaging: 7/15/2021 9:51:59 AM

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Analysis Request of Chain of Custody Record

1RP-5014



# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Hole #212 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottom Hole #213 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottom Hole #214 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottom Hole #215 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottom Hole #216 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottom Hole #217 (2' BEB) | 4/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Tomas Mendez | Date: 4/22/20 | Time: 1133 | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

**LAB USE ONLY**
Sample Temperature 1.8/1.4

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Received by OCD: 6/29/2021 10:26:12 AM
Released to Imaging: 7/15/2021 9:51:59 AM
Final 1.001
Page 27 of 28

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 04.22.2020 11.33.00 AM

**Work Order #:** 659506

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : R9**

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | 1.4 | |
| #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** | BTEX was in bulk container |
| #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)? | **N/A** | |
| #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:** Brianna Teel Date: 04.22.2020

Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 04.22.2020

Jessica Kramer

# Analytical Report 659915

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG Rattlesnake Reuse**

**212C-MD-01974**

**05.01.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.01.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **659915**
**EOG Rattlesnake Reuse**
Project Address: Lea Co.NM

**Mike Carmona**:

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) 659915. 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. 659915 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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

# Sample Cross Reference 659915

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| BH 218 (2') | S | 04.22.2020 00:00 | | 659915-001 |
| BH 219 (2') | S | 04.22.2020 00:00 | | 659915-002 |
| BH 220 (2') | S | 04.22.2020 00:00 | | 659915-003 |
| BH 221 (2') | S | 04.22.2020 00:00 | | 659915-004 |
| BH 222 (3') | S | 04.22.2020 00:00 | | 659915-005 |
| BH 223 (2') | S | 04.22.2020 00:00 | | 659915-006 |
| BH 224 (2') | S | 04.22.2020 00:00 | | 659915-007 |
| BH 225 (2') | S | 04.22.2020 00:00 | | 659915-008 |
| BH 226 (2') | S | 04.22.2020 00:00 | | 659915-009 |
| BH 227 (2') | S | 04.22.2020 00:00 | | 659915-010 |
| BH 228 (2') | S | 04.22.2020 00:00 | | 659915-011 |
| BH 229 (2') | S | 04.22.2020 00:00 | | 659915-012 |
| BH 230 (2') | S | 04.22.2020 00:00 | | 659915-013 |
| BH 231 (2') | S | 04.22.2020 00:00 | | 659915-014 |
| BH 232 (2') | S | 04.22.2020 00:00 | | 659915-015 |
| BH 233 (2') | S | 04.22.2020 00:00 | | 659915-016 |
| BH 234 (2') | S | 04.22.2020 00:00 | | 659915-017 |
| BH 235 (2') | S | 04.22.2020 00:00 | | 659915-018 |
| BH 236 (2') | S | 04.22.2020 00:00 | | 659915-019 |
| BH 237 (2') | S | 04.22.2020 00:00 | | 659915-020 |
| BH 238 (2') | S | 04.22.2020 00:00 | | 659915-021 |
| BH 239 (2') | S | 04.22.2020 00:00 | | 659915-022 |
| BH 240 (2') | S | 04.22.2020 00:00 | | 659915-023 |
| BH 241 (2') | S | 04.22.2020 00:00 | | 659915-024 |
| BH 242 (2') | S | 04.22.2020 00:00 | | 659915-025 |
| BH 243 (2') | S | 04.22.2020 00:00 | | 659915-026 |
| BH 244 (2') | S | 04.22.2020 00:00 | | 659915-027 |
| BH 245 (2') | S | 04.22.2020 00:00 | | 659915-028 |
| BH 246 (2') | S | 04.22.2020 00:00 | | 659915-029 |
| BH 247 (2') | S | 04.22.2020 00:00 | | 659915-030 |
| BH 248 (2') | S | 04.22.2020 00:00 | | 659915-031 |
| BH 249 (2') | S | 04.22.2020 00:00 | | 659915-032 |
| BH 250 (2') | S | 04.22.2020 00:00 | | 659915-033 |
| BH 251 (2') | S | 04.22.2020 00:00 | | 659915-034 |
| BH 252 (2') | S | 04.22.2020 00:00 | | 659915-035 |
| BH 253 (2') | S | 04.22.2020 00:00 | | 659915-036 |
| BH 254 (2') | S | 04.22.2020 00:00 | | 659915-037 |
| BH 255 (2') | S | 04.22.2020 00:00 | | 659915-038 |
| BH 256 (2') | S | 04.22.2020 00:00 | | 659915-039 |
| BH 257 (2') | S | 04.22.2020 00:00 | | 659915-040 |
| BH 258 (2') | S | 04.22.2020 00:00 | | 659915-041 |
| BH 259 (2') | S | 04.22.2020 00:00 | | 659915-042 |
| BH 260 (2') | S | 04.22.2020 00:00 | | 659915-043 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG Rattlesnake Reuse***

Project ID: *212C-MD-01974*
Work Order Number(s): *659915*

Report Date: *05.01.2020*
Date Received: *04.28.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3124694 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7702436-1-BLK,659915-036.

Batch: LBA-3124746 BTEX by EPA 8021B

Lab Sample ID 659915-023 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene 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: 659915-014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033.

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

Batch: LBA-3124748 BTEX by EPA 8021B

Lab Sample ID 659915-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene 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: 659915-003, -004, -005, -006, -008, -009, -010, -011, -012, -013.

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

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected. Samples affected are: 659915-003 SD.

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7702490-1-BLK,659915-003 S,659915-003 SD,659915-012.

# Certificate of Analysis Summary 659915

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co.NM

**Date Received in Lab:** Tue 04.28.2020 09:23
**Report Date:** 05.01.2020 17:00
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659915-001 | | 659915-002 | | 659915-003 | | 659915-004 | | 659915-005 | | 659915-006 | |
| | ***Field Id:*** | BH 218 (2') | | BH 219 (2') | | BH 220 (2') | | BH 221 (2') | | BH 222 (3') | | BH 223 (2') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.01.2020 10:00 | | 05.01.2020 10:00 | | 04.30.2020 17:00 | | 04.30.2020 17:00 | | 04.30.2020 17:00 | | 04.30.2020 17:00 | |
| | ***Analyzed:*** | 05.01.2020 12:01 | | 05.01.2020 12:22 | | 05.01.2020 10:20 | | 05.01.2020 10:40 | | 05.01.2020 11:00 | | 05.01.2020 11:21 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Toluene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00401 | 0.00401 | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.28.2020 13:45 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | |
| | ***Analyzed:*** | 04.28.2020 19:45 | | 04.28.2020 20:19 | | 04.28.2020 20:35 | | 04.28.2020 20:40 | | 04.28.2020 20:45 | | 04.28.2020 20:51 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 176 | 5.01 | 141 | 4.98 | 67.2 | 4.96 | 256 | 4.99 | 304 | 5.03 | 101 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | |
| | ***Analyzed:*** | 04.28.2020 13:01 | | 04.28.2020 14:05 | | 04.28.2020 14:26 | | 04.28.2020 14:48 | | 04.28.2020 15:09 | | 04.28.2020 15:31 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |

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 Manager

# Certificate of Analysis Summary 659915

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co.NM

**Date Received in Lab:** Tue 04.28.2020 09:23
**Report Date:** 05.01.2020 17:00
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659915-007 | | 659915-008 | | 659915-009 | | 659915-010 | | 659915-011 | | 659915-012 | |
| | ***Field Id:*** | BH 224 (2') | | BH 225 (2') | | BH 226 (2') | | BH 227 (2') | | BH 228 (2') | | BH 229 (2') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.01.2020 10:00 | | 04.30.2020 17:00 | | 04.30.2020 17:00 | | 04.30.2020 17:00 | | 04.30.2020 17:00 | | 04.30.2020 17:00 | |
| | ***Analyzed:*** | 05.01.2020 13:23 | | 05.01.2020 12:01 | | 05.01.2020 12:21 | | 05.01.2020 14:27 | | 05.01.2020 14:47 | | 05.01.2020 15:07 | |
| | ***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 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | |
| | ***Analyzed:*** | 04.28.2020 21:06 | | 04.28.2020 21:12 | | 04.28.2020 21:17 | | 04.28.2020 21:22 | | 04.28.2020 21:27 | | 04.28.2020 21:33 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 144 | 4.98 | 264 | 4.99 | 365 | 4.97 | 181 | 4.96 | 166 | 4.99 | 175 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | |
| | ***Analyzed:*** | 04.28.2020 15:52 | | 04.28.2020 16:14 | | 04.28.2020 16:36 | | 04.28.2020 16:57 | | 04.28.2020 17:41 | | 04.28.2020 18:02 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659915

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co.NM

**Date Received in Lab:** Tue 04.28.2020 09:23
**Report Date:** 05.01.2020 17:00
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659915-013 | | 659915-014 | | 659915-015 | | 659915-016 | | 659915-017 | | 659915-018 | |
| | ***Field Id:*** | BH 230 (2') | | BH 231 (2') | | BH 232 (2') | | BH 233 (2') | | BH 234 (2') | | BH 235 (2') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.30.2020 17:00 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | |
| | ***Analyzed:*** | 05.01.2020 15:27 | | 04.30.2020 23:39 | | 05.01.2020 00:00 | | 05.01.2020 00:20 | | 05.01.2020 00:41 | | 05.01.2020 01:01 | |
| | ***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 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00401 | 0.00401 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | |
| | ***Analyzed:*** | 04.28.2020 21:48 | | 04.28.2020 21:54 | | 04.28.2020 22:10 | | 04.28.2020 22:15 | | 04.28.2020 22:20 | | 04.28.2020 22:25 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 385 | 4.98 | 368 | 5.01 | 327 | 4.99 | 221 | 5.03 | 181 | 5.04 | 180 | 5.04 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | |
| | ***Analyzed:*** | 04.28.2020 18:24 | | 04.28.2020 18:46 | | 04.28.2020 19:07 | | 04.28.2020 19:29 | | 04.28.2020 19:50 | | 04.28.2020 20:11 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659915

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co.NM

**Date Received in Lab:** Tue 04.28.2020 09:23
**Report Date:** 05.01.2020 17:00
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | 659915-019 | | 659915-020 | | 659915-021 | | 659915-022 | | 659915-023 | | 659915-024 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | BH 236 (2') | | BH 237 (2') | | BH 238 (2') | | BH 239 (2') | | BH 240 (2') | | BH 241 (2') | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | |
| | *Analyzed:* | 05.01.2020 01:21 | | 05.01.2020 01:42 | | 05.01.2020 02:02 | | 05.01.2020 02:23 | | 05.01.2020 02:43 | | 05.01.2020 04:05 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Toluene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00403 | 0.00403 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:00 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | |
| | *Analyzed:* | 04.28.2020 22:31 | | 04.28.2020 22:36 | | 04.28.2020 22:41 | | 04.28.2020 23:13 | | 04.28.2020 23:29 | | 04.28.2020 23:34 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 188 | 5.01 | 183 | 4.98 | 182 | 4.95 | 230 | 5.04 | 184 | 5.04 | 151 | 4.99 |
| **TPH By SW8015 Mod** | *Extracted:* | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | |
| | *Analyzed:* | 04.28.2020 20:32 | | 04.28.2020 20:53 | | 04.28.2020 13:01 | | 04.28.2020 14:05 | | 04.28.2020 14:26 | | 04.28.2020 14:48 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659915

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co.NM

**Date Received in Lab:** Tue 04.28.2020 09:23
**Report Date:** 05.01.2020 17:00
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659915-025 | | 659915-026 | | 659915-027 | | 659915-028 | | 659915-029 | | 659915-030 | |
| | ***Field Id:*** | BH 242 (2') | | BH 243 (2') | | BH 244 (2') | | BH 245 (2') | | BH 246 (2') | | BH 247 (2') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | |
| | ***Analyzed:*** | 05.01.2020 04:26 | | 05.01.2020 04:46 | | 05.01.2020 05:07 | | 05.01.2020 05:27 | | 05.01.2020 05:47 | | 05.01.2020 06:08 | |
| | ***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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Toluene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00399 | 0.00399 | <0.00404 | 0.00404 | <0.00403 | 0.00403 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | |
| | ***Analyzed:*** | 04.28.2020 23:39 | | 04.28.2020 23:44 | | 04.29.2020 00:00 | | 04.29.2020 00:05 | | 04.29.2020 00:11 | | 04.29.2020 00:16 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 50.1 | 4.98 | 119 | 4.97 | 248 | 4.98 | 155 | 5.03 | 409 | 5.00 | 372 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | |
| | ***Analyzed:*** | 04.28.2020 15:09 | | 04.28.2020 15:31 | | 04.28.2020 15:52 | | 04.28.2020 16:14 | | 04.28.2020 16:36 | | 04.28.2020 16:57 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659915

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co.NM

**Date Received in Lab:** Tue 04.28.2020 09:23
**Report Date:** 05.01.2020 17:00
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659915-031 | | 659915-032 | | 659915-033 | | 659915-034 | | 659915-035 | | 659915-036 | |
| | ***Field Id:*** | BH 248 (2') | | BH 249 (2') | | BH 250 (2') | | BH 251 (2') | | BH 252 (2') | | BH 253 (2') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.29.2020 09:30 | | 04.30.2020 08:00 | | 04.30.2020 08:00 | | 04.30.2020 08:00 | |
| | ***Analyzed:*** | 05.01.2020 06:28 | | 05.01.2020 06:49 | | 05.01.2020 07:09 | | 04.30.2020 15:16 | | 04.30.2020 15:36 | | 04.30.2020 15:56 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Toluene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | |
| | ***Analyzed:*** | 04.29.2020 00:21 | | 04.29.2020 00:26 | | 04.29.2020 00:42 | | 04.29.2020 00:47 | | 04.29.2020 01:03 | | 04.29.2020 01:09 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 488 | 5.03 | 217 | 5.02 | 362 | 4.98 | 321 | 5.01 | 153 | 5.02 | 425 | 4.96 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | |
| | ***Analyzed:*** | 04.28.2020 17:41 | | 04.28.2020 18:02 | | 04.28.2020 18:24 | | 04.28.2020 18:46 | | 04.28.2020 19:07 | | 04.28.2020 19:29 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659915

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co.NM

**Date Received in Lab:** Tue 04.28.2020 09:23
**Report Date:** 05.01.2020 17:00
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659915-037 | | 659915-038 | | 659915-039 | | 659915-040 | | 659915-041 | | 659915-042 | |
| | ***Field Id:*** | BH 254 (2') | | BH 255 (2') | | BH 256 (2') | | BH 257 (2') | | BH 258 (2') | | BH 259 (2') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | | 04.22.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.30.2020 08:00 | | 04.30.2020 08:00 | | 04.30.2020 08:00 | | 04.30.2020 08:00 | | 04.30.2020 08:00 | | 04.30.2020 08:00 | |
| | ***Analyzed:*** | 04.30.2020 17:18 | | 04.30.2020 17:38 | | 04.30.2020 17:58 | | 04.30.2020 18:18 | | 04.30.2020 18:38 | | 04.30.2020 18:58 | |
| | ***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 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00401 | 0.00401 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 14:30 | | 04.28.2020 17:05 | |
| | ***Analyzed:*** | 04.29.2020 01:14 | | 04.29.2020 01:19 | | 04.29.2020 01:24 | | 04.29.2020 01:30 | | 04.29.2020 01:35 | | 04.29.2020 03:15 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 185 | 4.95 | 415 | 5.03 | 256 | 5.01 | 251 | 4.97 | 178 | 4.98 | 343 | 5.01 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 11:00 | | 04.28.2020 16:00 | | 04.28.2020 16:00 | |
| | ***Analyzed:*** | 04.28.2020 19:50 | | 04.28.2020 20:11 | | 04.28.2020 20:32 | | 04.28.2020 20:53 | | 04.28.2020 21:54 | | 04.28.2020 22:49 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 659915

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co.NM

**Date Received in Lab:** Tue 04.28.2020 09:23
**Report Date:** 05.01.2020 17:00
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | |
|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 659915-043 | | | | | |
| | ***Field Id:*** | BH 260 (2') | | | | | |
| | ***Depth:*** | | | | | | |
| | ***Matrix:*** | SOIL | | | | | |
| | ***Sampled:*** | 04.22.2020 00:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 04.30.2020 08:00 | | | | | |
| | ***Analyzed:*** | 04.30.2020 19:18 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Benzene | | <0.00199 | 0.00199 | | | | |
| Toluene | | <0.00199 | 0.00199 | | | | |
| Ethylbenzene | | <0.00199 | 0.00199 | | | | |
| m,p-Xylenes | | <0.00398 | 0.00398 | | | | |
| o-Xylene | | <0.00199 | 0.00199 | | | | |
| Total Xylenes | | <0.00199 | 0.00199 | | | | |
| Total BTEX | | <0.00199 | 0.00199 | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 04.28.2020 17:05 | | | | | |
| | ***Analyzed:*** | 04.29.2020 03:20 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Chloride | | 318 | 5.03 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 04.28.2020 16:00 | | | | | |
| | ***Analyzed:*** | 04.28.2020 23:08 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | | | | |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | | | | |
| Total TPH | | <50.0 | 50.0 | | | | |

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Jessica Kramer
Project Manager

# 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. **ND** Not Detected.

**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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124490 **Sample:** 659915-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 13:01

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 93.3 | 99.9 | 93 | 70-130 | |
| o-Terphenyl | 49.0 | 50.0 | 98 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-021 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 13:01

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 94.7 | 99.9 | 95 | 70-130 | |
| o-Terphenyl | 49.5 | 50.0 | 99 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 14:05

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 94.7 | 99.9 | 95 | 70-130 | |
| o-Terphenyl | 50.3 | 50.0 | 101 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-022 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 14:05

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 97.1 | 100 | 97 | 70-130 | |
| o-Terphenyl | 51.8 | 50.0 | 104 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 14:26

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 93.7 | 100 | 94 | 70-130 | |
| o-Terphenyl | 49.3 | 50.0 | 99 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124492 **Sample:** 659915-023 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 14:26

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 101 | 99.9 | 101 | 70-130 | |
| o-Terphenyl | 53.6 | 50.0 | 107 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 14:48

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 95.3 | 99.6 | 96 | 70-130 | |
| o-Terphenyl | 52.0 | 49.8 | 104 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-024 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 14:48

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 97.0 | 99.7 | 97 | 70-130 | |
| o-Terphenyl | 51.3 | 49.9 | 103 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 15:09

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 92.3 | 99.9 | 92 | 70-130 | |
| o-Terphenyl | 50.2 | 50.0 | 100 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-025 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 15:09

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 96.2 | 99.6 | 97 | 70-130 | |
| o-Terphenyl | 51.5 | 49.8 | 103 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124490 **Sample:** 659915-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 15:31

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 92.3 | 99.7 | 93 | 70-130 | |
| o-Terphenyl | 48.7 | 49.9 | 98 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-026 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 15:31

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 98.0 | 100 | 98 | 70-130 | |
| o-Terphenyl | 53.4 | 50.0 | 107 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 15:52

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 87.5 | 99.8 | 88 | 70-130 | |
| o-Terphenyl | 46.5 | 49.9 | 93 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-027 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 15:52

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 98.6 | 99.9 | 99 | 70-130 | |
| o-Terphenyl | 52.9 | 50.0 | 106 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 16:14

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 94.0 | 99.9 | 94 | 70-130 | |
| o-Terphenyl | 48.9 | 50.0 | 98 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124492 **Sample:** 659915-028 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 16:14

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 99.2 | 100 | 99 | 70-130 | |
| o-Terphenyl | 53.6 | 50.0 | 107 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 16:36

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 92.3 | 99.6 | 93 | 70-130 | |
| o-Terphenyl | 49.1 | 49.8 | 99 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-029 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 16:36

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 98.9 | 99.7 | 99 | 70-130 | |
| o-Terphenyl | 52.9 | 49.9 | 106 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 16:57

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 91.6 | 99.8 | 92 | 70-130 | |
| o-Terphenyl | 48.1 | 49.9 | 96 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-030 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 16:57

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 104 | 99.6 | 104 | 70-130 | |
| o-Terphenyl | 55.6 | 49.8 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124490 **Sample:** 659915-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 17:41

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 91.6 | 99.9 | 92 | 70-130 | |
| o-Terphenyl | 48.2 | 50.0 | 96 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-031 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 17:41

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | 99.9 | 102 | 70-130 | |
| o-Terphenyl | 54.8 | 50.0 | 110 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 18:02

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 93.1 | 100 | 93 | 70-130 | |
| o-Terphenyl | 49.8 | 50.0 | 100 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-032 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 18:02

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 100 | 100 | 100 | 70-130 | |
| o-Terphenyl | 53.7 | 50.0 | 107 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 18:24

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 94.9 | 99.8 | 95 | 70-130 | |
| o-Terphenyl | 51.0 | 49.9 | 102 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124492 **Sample:** 659915-033 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 18:24

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 111 | 99.7 | 111 | 70-130 | |
| o-Terphenyl | 57.7 | 49.9 | 116 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 18:46

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 92.4 | 100 | 92 | 70-130 | |
| o-Terphenyl | 48.2 | 50.0 | 96 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-034 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 18:46

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 103 | 99.9 | 103 | 70-130 | |
| o-Terphenyl | 53.6 | 50.0 | 107 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 19:07

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 93.6 | 99.9 | 94 | 70-130 | |
| o-Terphenyl | 50.4 | 50.0 | 101 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-035 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 19:07

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 99.2 | 99.8 | 99 | 70-130 | |
| o-Terphenyl | 53.9 | 49.9 | 108 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124490 **Sample:** 659915-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 19:29

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 94.1 | 99.7 | 94 | 70-130 | |
| o-Terphenyl | 48.8 | 49.9 | 98 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-036 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 19:29

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 101 | 99.7 | 101 | 70-130 | |
| o-Terphenyl | 53.6 | 49.9 | 107 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-017 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 19:50

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 97.6 | 99.6 | 98 | 70-130 | |
| o-Terphenyl | 51.6 | 49.8 | 104 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-037 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 19:50

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 96.9 | 99.9 | 97 | 70-130 | |
| o-Terphenyl | 50.8 | 50.0 | 102 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-018 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 20:11

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 93.2 | 99.9 | 93 | 70-130 | |
| o-Terphenyl | 48.6 | 50.0 | 97 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124492 **Sample:** 659915-038 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 20:11

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 95.4 | 100 | 95 | 70-130 | |
| o-Terphenyl | 51.3 | 50.0 | 103 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-019 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 20:32

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 95.9 | 100 | 96 | 70-130 | |
| o-Terphenyl | 51.3 | 50.0 | 103 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-039 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 20:32

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 96.1 | 99.9 | 96 | 70-130 | |
| o-Terphenyl | 51.5 | 50.0 | 103 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-020 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 20:53

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 91.9 | 99.7 | 92 | 70-130 | |
| o-Terphenyl | 47.9 | 49.9 | 96 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-040 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 20:53

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 98.0 | 99.7 | 98 | 70-130 | |
| o-Terphenyl | 53.0 | 49.9 | 106 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124486 **Sample:** 659915-041 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 21:54

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 76.7 | 99.9 | 77 | 70-130 | |
| o-Terphenyl | 38.2 | 50.0 | 76 | 70-130 | |

**Lab Batch #:** 3124486 **Sample:** 659915-042 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 22:49

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 78.4 | 99.8 | 79 | 70-130 | |
| o-Terphenyl | 39.7 | 49.9 | 80 | 70-130 | |

**Lab Batch #:** 3124486 **Sample:** 659915-043 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 23:08

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 78.4 | 99.9 | 78 | 70-130 | |
| o-Terphenyl | 40.2 | 50.0 | 80 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 659915-034 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 15:16

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0336 | 0.0300 | 112 | 70-130 | |
| 4-Bromofluorobenzene | 0.0266 | 0.0300 | 89 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 659915-035 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 15:36

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0236 | 0.0300 | 79 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124694 **Sample:** 659915-036 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 15:56

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0238 | 0.0300 | 79 | 70-130 | |
| 4-Bromofluorobenzene | 0.0180 | 0.0300 | 60 | 70-130 | ** |

**Lab Batch #:** 3124694 **Sample:** 659915-037 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 17:18

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |
| 4-Bromofluorobenzene | 0.0285 | 0.0300 | 95 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 659915-038 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 17:38

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0338 | 0.0300 | 113 | 70-130 | |
| 4-Bromofluorobenzene | 0.0265 | 0.0300 | 88 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 659915-039 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 17:58

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0292 | 0.0300 | 97 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 659915-040 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 18:18

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0340 | 0.0300 | 113 | 70-130 | |
| 4-Bromofluorobenzene | 0.0331 | 0.0300 | 110 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124694 **Sample:** 659915-041 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 18:38

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0285 | 0.0300 | 95 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 659915-042 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 18:58

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0313 | 0.0300 | 104 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 659915-043 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 19:18

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0286 | 0.0300 | 95 | 70-130 | |
| 4-Bromofluorobenzene | 0.0206 | 0.0300 | 69 | 70-130 | ** |

**Lab Batch #:** 3124746 **Sample:** 659915-014 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 23:39

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0316 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-015 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 00:00

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0340 | 0.0300 | 113 | 70-130 | |
| 4-Bromofluorobenzene | 0.0322 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124746 **Sample:** 659915-016 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 00:20

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0263 | 0.0300 | 88 | 70-130 | |
| 4-Bromofluorobenzene | 0.0228 | 0.0300 | 76 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-017 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 00:41

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0342 | 0.0300 | 114 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-018 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 01:01

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0293 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0260 | 0.0300 | 87 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-019 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 01:21

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0297 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0268 | 0.0300 | 89 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-020 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 01:42

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0292 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0263 | 0.0300 | 88 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124746 **Sample:** 659915-021 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 02:02

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0314 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-022 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 02:23

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0312 | 0.0300 | 104 | 70-130 | |
| 4-Bromofluorobenzene | 0.0351 | 0.0300 | 117 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-023 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 02:43

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0363 | 0.0300 | 121 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-024 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 04:05

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0325 | 0.0300 | 108 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-025 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 04:26

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0333 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0312 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124746 **Sample:** 659915-026 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 04:46

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0331 | 0.0300 | 110 | 70-130 | |
| 4-Bromofluorobenzene | 0.0318 | 0.0300 | 106 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-027 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 05:07

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0335 | 0.0300 | 112 | 70-130 | |
| 4-Bromofluorobenzene | 0.0312 | 0.0300 | 104 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-028 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 05:27

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0330 | 0.0300 | 110 | 70-130 | |
| 4-Bromofluorobenzene | 0.0315 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-029 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 05:47

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0330 | 0.0300 | 110 | 70-130 | |
| 4-Bromofluorobenzene | 0.0323 | 0.0300 | 108 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-030 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 06:08

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0333 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0324 | 0.0300 | 108 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124746 **Sample:** 659915-031 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 06:28

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0317 | 0.0300 | 106 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-032 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 06:49

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0333 | 0.0300 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 0.0324 | 0.0300 | 108 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-033 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 07:09

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0335 | 0.0300 | 112 | 70-130 | |
| 4-Bromofluorobenzene | 0.0328 | 0.0300 | 109 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 659915-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 10:20

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0277 | 0.0300 | 92 | 70-130 | |
| 4-Bromofluorobenzene | 0.0213 | 0.0300 | 71 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 659915-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 10:40

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0277 | 0.0300 | 92 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124748 **Sample:** 659915-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 11:00

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0357 | 0.0300 | 119 | 70-130 | |
| 4-Bromofluorobenzene | 0.0350 | 0.0300 | 117 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 659915-006 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 11:21

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0354 | 0.0300 | 118 | 70-130 | |
| 4-Bromofluorobenzene | 0.0308 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3124797 **Sample:** 659915-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 12:01

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0303 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0281 | 0.0300 | 94 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 659915-008 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 12:01

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0365 | 0.0300 | 122 | 70-130 | |
| 4-Bromofluorobenzene | 0.0343 | 0.0300 | 114 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 659915-009 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 12:21

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0340 | 0.0300 | 113 | 70-130 | |
| 4-Bromofluorobenzene | 0.0281 | 0.0300 | 94 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124797 **Sample:** 659915-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 12:22

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0338 | 0.0300 | 113 | 70-130 | |
| 4-Bromofluorobenzene | 0.0313 | 0.0300 | 104 | 70-130 | |

**Lab Batch #:** 3124797 **Sample:** 659915-007 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 13:23

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0341 | 0.0300 | 114 | 70-130 | |
| 4-Bromofluorobenzene | 0.0322 | 0.0300 | 107 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 659915-010 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 14:27

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0310 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | 0.0274 | 0.0300 | 91 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 659915-011 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 14:47

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0227 | 0.0300 | 76 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 659915-012 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 15:07

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0286 | 0.0300 | 95 | 70-130 | |
| 4-Bromofluorobenzene | 0.0201 | 0.0300 | 67 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124748 **Sample:** 659915-013 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 15:27

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0217 | 0.0300 | 72 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 7702215-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.28.2020 11:57

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 86.0 | 100 | 86 | 70-130 | |
| o-Terphenyl | 48.8 | 50.0 | 98 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 7702218-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.28.2020 11:57

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 90.5 | 100 | 91 | 70-130 | |
| o-Terphenyl | 50.6 | 50.0 | 101 | 70-130 | |

**Lab Batch #:** 3124486 **Sample:** 7702250-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.28.2020 20:58

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 76.4 | 100 | 76 | 70-130 | |
| o-Terphenyl | 39.6 | 50.0 | 79 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 7702436-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.30.2020 12:34

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0259 | 0.0300 | 86 | 70-130 | |
| 4-Bromofluorobenzene | 0.0183 | 0.0300 | 61 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124746 **Sample:** 7702488-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.30.2020 23:18

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0304 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0271 | 0.0300 | 90 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 7702490-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.30.2020 23:35

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0256 | 0.0300 | 85 | 70-130 | |
| 4-Bromofluorobenzene | 0.0193 | 0.0300 | 64 | 70-130 | ** |

**Lab Batch #:** 3124797 **Sample:** 7702507-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 05.01.2020 11:19

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0304 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 0.0266 | 0.0300 | 89 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 7702215-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.28.2020 12:19

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 94.2 | 100 | 94 | 70-130 | |
| o-Terphenyl | 50.9 | 50.0 | 102 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 7702218-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.28.2020 12:19

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 107 | 100 | 107 | 70-130 | |
| o-Terphenyl | 54.6 | 50.0 | 109 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124486 **Sample:** 7702250-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.28.2020 21:17

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 93.4 | 100 | 93 | 70-130 | |
| o-Terphenyl | 44.3 | 50.0 | 89 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 7702436-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.30.2020 10:37

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0345 | 0.0300 | 115 | 70-130 | |
| 4-Bromofluorobenzene | 0.0322 | 0.0300 | 107 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 7702488-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.30.2020 21:18

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0322 | 0.0300 | 107 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 7702490-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.30.2020 21:38

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0327 | 0.0300 | 109 | 70-130 | |
| 4-Bromofluorobenzene | 0.0349 | 0.0300 | 116 | 70-130 | |

**Lab Batch #:** 3124797 **Sample:** 7702507-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 05.01.2020 09:20

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0292 | 0.0300 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 0.0300 | 0.0300 | 100 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124490 **Sample:** 7702215-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.28.2020 12:40

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 106 | 100 | 106 | 70-130 | |
| o-Terphenyl | 59.1 | 50.0 | 118 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 7702218-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.28.2020 12:40

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 105 | 100 | 105 | 70-130 | |
| o-Terphenyl | 53.0 | 50.0 | 106 | 70-130 | |

**Lab Batch #:** 3124486 **Sample:** 7702250-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.28.2020 21:35

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 96.6 | 100 | 97 | 70-130 | |
| o-Terphenyl | 44.9 | 50.0 | 90 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 7702436-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.30.2020 10:57

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0349 | 0.0300 | 116 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 7702488-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.30.2020 21:39

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0289 | 0.0300 | 96 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124748 **Sample:** 7702490-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 04.30.2020 21:59

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0350 | 0.0300 | 117 | 70-130 | |

**Lab Batch #:** 3124797 **Sample:** 7702507-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg **Date Analyzed:** 05.01.2020 09:40

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0293 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 0.0308 | 0.0300 | 103 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 13:22

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 95.9 | 99.7 | 96 | 70-130 | |
| o-Terphenyl | 48.7 | 49.9 | 98 | 70-130 | |

**Lab Batch #:** 3124492 **Sample:** 659915-021 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 13:22

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 118 | 99.7 | 118 | 70-130 | |
| o-Terphenyl | 51.0 | 49.9 | 102 | 70-130 | |

**Lab Batch #:** 3124486 **Sample:** 659915-041 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 22:12

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 96.6 | 100 | 97 | 70-130 | |
| o-Terphenyl | 44.0 | 50.0 | 88 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124694 **Sample:** 659619-004 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 11:17

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0331 | 0.0300 | 110 | 70-130 | |
| 4-Bromofluorobenzene | 0.0356 | 0.0300 | 119 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-023 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 21:59

**SURROGATE RECOVERY STUDY**

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

**Lab Batch #:** 3124748 **Sample:** 659915-003 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 22:19

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0266 | 0.0300 | 89 | 70-130 | |
| 4-Bromofluorobenzene | 0.0167 | 0.0300 | 56 | 70-130 | ** |

**Lab Batch #:** 3124797 **Sample:** 659619-007 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 10:00

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0308 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | 0.0306 | 0.0300 | 102 | 70-130 | |

**Lab Batch #:** 3124490 **Sample:** 659915-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 13:43

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 96.5 | 99.6 | 97 | 70-130 | |
| o-Terphenyl | 49.9 | 49.8 | 100 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124492 **Sample:** 659915-021 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 13:43

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 100 | 99.9 | 100 | 70-130 | |
| o-Terphenyl | 51.3 | 50.0 | 103 | 70-130 | |

**Lab Batch #:** 3124486 **Sample:** 659915-041 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.28.2020 22:31

**SURROGATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 110 | 99.7 | 110 | 70-130 | |
| o-Terphenyl | 48.9 | 49.9 | 98 | 70-130 | |

**Lab Batch #:** 3124694 **Sample:** 659619-004 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 11:37

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0349 | 0.0300 | 116 | 70-130 | |
| 4-Bromofluorobenzene | 0.0356 | 0.0300 | 119 | 70-130 | |

**Lab Batch #:** 3124746 **Sample:** 659915-023 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 22:19

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 | 0.0316 | 0.0300 | 105 | 70-130 | |

**Lab Batch #:** 3124748 **Sample:** 659915-003 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 04.30.2020 22:39

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.00381 | 0.0300 | 13 | 70-130 | ** |
| 4-Bromofluorobenzene | 0.0171 | 0.0300 | 57 | 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:** EOG Rattlesnake Reuse

**Work Orders:** 659915 **Project ID:** 212C-MD-01974

**Lab Batch #:** 3124797 **Sample:** 659619-007 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 05.01.2020 10:21

**SURROGATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 0.0296 | 0.0300 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 0.0311 | 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.

# BS / BSD Recoveries

## Project Name: EOG Rattlesnake Reuse

**Work Order #:** 659915 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.30.2020 **Date Analyzed:** 04.30.2020

**Lab Batch ID:** 3124694 **Sample:** 7702436-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0881 | 88 | 0.100 | 0.0864 | 86 | 2 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0999 | 100 | 0.100 | 0.0977 | 98 | 2 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.112 | 112 | 0.100 | 0.106 | 106 | 6 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.230 | 115 | 0.200 | 0.218 | 109 | 5 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.113 | 113 | 0.100 | 0.107 | 107 | 5 | 70-130 | 35 | |

**Analyst:** KTL **Date Prepared:** 04.29.2020 **Date Analyzed:** 04.30.2020

**Lab Batch ID:** 3124746 **Sample:** 7702488-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0893 | 89 | 0.100 | 0.0849 | 85 | 5 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0887 | 89 | 0.100 | 0.0819 | 82 | 8 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0913 | 91 | 0.100 | 0.0829 | 83 | 10 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.177 | 89 | 0.200 | 0.158 | 79 | 11 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0922 | 92 | 0.100 | 0.0827 | 83 | 11 | 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: EOG Rattlesnake Reuse

**Work Order #:** 659915 **Project ID:** 212C-MD-01974

**Analyst:** KTL **Date Prepared:** 04.30.2020 **Date Analyzed:** 04.30.2020

**Lab Batch ID:** 3124748 **Sample:** 7702490-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0821 | 82 | 0.100 | 0.0851 | 85 | 4 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0888 | 89 | 0.100 | 0.0912 | 91 | 3 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0952 | 95 | 0.100 | 0.0976 | 98 | 2 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.194 | 97 | 0.200 | 0.199 | 100 | 3 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0971 | 97 | 0.100 | 0.0998 | 100 | 3 | 70-130 | 35 | |

**Analyst:** KTL **Date Prepared:** 05.01.2020 **Date Analyzed:** 05.01.2020

**Lab Batch ID:** 3124797 **Sample:** 7702507-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| BTEX by EPA 8021B<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0845 | 85 | 0.100 | 0.0869 | 87 | 3 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0853 | 85 | 0.100 | 0.0882 | 88 | 3 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0890 | 89 | 0.100 | 0.0920 | 92 | 3 | 70-130 | 35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.173 | 87 | 0.200 | 0.178 | 89 | 3 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0884 | 88 | 0.100 | 0.0915 | 92 | 3 | 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: EOG Rattlesnake Reuse

**Work Order #:** 659915 **Project ID:** 212C-MD-01974

**Analyst:** CHE **Date Prepared:** 04.28.2020 **Date Analyzed:** 04.28.2020

**Lab Batch ID:** 3124440 **Sample:** 7702213-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 239 | 96 | 250 | 253 | 101 | 6 | 90-110 | 20 | |

**Analyst:** CHE **Date Prepared:** 04.28.2020 **Date Analyzed:** 04.28.2020

**Lab Batch ID:** 3124465 **Sample:** 7702214-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 238 | 95 | 250 | 240 | 96 | 1 | 90-110 | 20 | |

**Analyst:** CHE **Date Prepared:** 04.28.2020 **Date Analyzed:** 04.28.2020

**Lab Batch ID:** 3124466 **Sample:** 7702223-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 242 | 97 | 250 | 239 | 96 | 1 | 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: EOG Rattlesnake Reuse

**Work Order #:** 659915 **Project ID:** 212C-MD-01974

**Analyst:** CHE **Date Prepared:** 04.28.2020 **Date Analyzed:** 04.29.2020

**Lab Batch ID:** 3124470 **Sample:** 7702260-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| Inorganic Anions by EPA 300/300.1<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 246 | 98 | 250 | 233 | 93 | 5 | 90-110 | 20 | |

**Analyst:** ARM **Date Prepared:** 04.28.2020 **Date Analyzed:** 04.28.2020

**Lab Batch ID:** 3124490 **Sample:** 7702215-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 950 | 95 | 1000 | 1060 | 106 | 11 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1100 | 110 | 1000 | 1200 | 120 | 9 | 70-130 | 20 | |

**Analyst:** ARM **Date Prepared:** 04.28.2020 **Date Analyzed:** 04.28.2020

**Lab Batch ID:** 3124492 **Sample:** 7702218-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 1020 | 102 | 1000 | 1010 | 101 | 1 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1150 | 115 | 1000 | 1140 | 114 | 1 | 70-130 | 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: EOG Rattlesnake Reuse

**Work Order #:** 659915 **Project ID:** 212C-MD-01974

**Analyst:** ARM **Date Prepared:** 04.28.2020 **Date Analyzed:** 04.28.2020

**Lab Batch ID:** 3124486 **Sample:** 7702250-1-BKS **Batch #:** 1 **Matrix:** Solid

**Units:** mg/kg

### BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| TPH By SW8015 Mod<br>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) | <50.0 | 1000 | 927 | 93 | 1000 | 926 | 93 | 0 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1000 | 100 | 1000 | 999 | 100 | 0 | 70-130 | 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: EOG Rattlesnake Reuse

**Work Order # :** 659915 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124694 **QC- Sample ID:** 659619-004 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.30.2020 **Date Prepared:** 04.30.2020 **Analyst:** KTL

**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 | 0.0998 | 0.0774 | 78 | 0.0992 | 0.0942 | 95 | 20 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.0998 | 0.0843 | 84 | 0.0992 | 0.101 | 102 | 18 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0857 | 86 | 0.0992 | 0.103 | 104 | 18 | 70-130 | 35 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.174 | 87 | 0.198 | 0.210 | 106 | 19 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0864 | 87 | 0.0992 | 0.103 | 104 | 18 | 70-130 | 35 | |

**Lab Batch ID:** 3124746 **QC- Sample ID:** 659915-023 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.30.2020 **Date Prepared:** 04.29.2020 **Analyst:** KTL

**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 | 0.0998 | 0.0583 | 58 | 0.0998 | 0.0617 | 62 | 6 | 70-130 | 35 | X |
| Toluene | <0.00200 | 0.0998 | 0.0542 | 54 | 0.0998 | 0.0591 | 59 | 9 | 70-130 | 35 | X |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0527 | 53 | 0.0998 | 0.0567 | 57 | 7 | 70-130 | 35 | X |
| m,p-Xylenes | <0.00399 | 0.200 | 0.103 | 52 | 0.200 | 0.109 | 55 | 6 | 70-130 | 35 | X |
| o-Xylene | <0.00200 | 0.0998 | 0.0539 | 54 | 0.0998 | 0.0571 | 57 | 6 | 70-130 | 35 | X |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse

**Work Order # :** 659915 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124748 **QC- Sample ID:** 659915-003 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.30.2020 **Date Prepared:** 04.30.2020 **Analyst:** KTL

**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 | <0.00199 | 0.0994 | 0.0510 | 51 | 0.100 | 0.0420 | 42 | 19 | 70-130 | 35 | X |
| Toluene | <0.00199 | 0.0994 | 0.0347 | 35 | 0.100 | 0.0303 | 30 | 14 | 70-130 | 35 | X |
| Ethylbenzene | <0.00199 | 0.0994 | 0.0344 | 35 | 0.100 | 0.0257 | 26 | 29 | 70-130 | 35 | X |
| m,p-Xylenes | <0.00398 | 0.199 | 0.0553 | 28 | 0.200 | 0.0512 | 26 | 8 | 70-130 | 35 | X |
| o-Xylene | <0.00199 | 0.0994 | 0.0401 | 40 | 0.100 | 0.0317 | 32 | 23 | 70-130 | 35 | X |

**Lab Batch ID:** 3124797 **QC- Sample ID:** 659619-007 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 05.01.2020 **Date Prepared:** 05.01.2020 **Analyst:** KTL

**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 | 0.0998 | 0.0888 | 89 | 0.101 | 0.0788 | 78 | 12 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.0998 | 0.0841 | 84 | 0.101 | 0.0794 | 79 | 6 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0858 | 86 | 0.101 | 0.0821 | 81 | 4 | 70-130 | 35 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.165 | 83 | 0.202 | 0.160 | 79 | 3 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0844 | 85 | 0.101 | 0.0826 | 82 | 2 | 70-130 | 35 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse

**Work Order # :** 659915 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124440 **QC- Sample ID:** 659826-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.28.2020 **Date Prepared:** 04.28.2020 **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 | 32.0 | 251 | 293 | 104 | 251 | 287 | 102 | 2 | 90-110 | 20 | |

**Lab Batch ID:** 3124440 **QC- Sample ID:** 659917-002 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.28.2020 **Date Prepared:** 04.28.2020 **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 | 11.6 | 252 | 269 | 102 | 252 | 271 | 103 | 1 | 90-110 | 20 | |

**Lab Batch ID:** 3124465 **QC- Sample ID:** 659915-002 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.28.2020 **Date Prepared:** 04.28.2020 **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 | 141 | 249 | 376 | 94 | 249 | 379 | 96 | 1 | 90-110 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse

**Work Order # :** 659915 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124465 **QC- Sample ID:** 659915-012 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.28.2020 **Date Prepared:** 04.28.2020 **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 | 175 | 250 | 421 | 98 | 250 | 425 | 100 | 1 | 90-110 | 20 | |

**Lab Batch ID:** 3124466 **QC- Sample ID:** 659915-022 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.28.2020 **Date Prepared:** 04.28.2020 **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 | 230 | 252 | 471 | 96 | 252 | 487 | 102 | 3 | 90-110 | 20 | |

**Lab Batch ID:** 3124466 **QC- Sample ID:** 659915-032 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.29.2020 **Date Prepared:** 04.28.2020 **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 | 217 | 251 | 461 | 97 | 251 | 471 | 101 | 2 | 90-110 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse

**Work Order # :** 659915 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124470 **QC- Sample ID:** 659899-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.29.2020 **Date Prepared:** 04.28.2020 **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 | 177 | 250 | 415 | 95 | 250 | 420 | 97 | 1 | 90-110 | 20 | |

**Lab Batch ID:** 3124470 **QC- Sample ID:** 659915-043 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.29.2020 **Date Prepared:** 04.28.2020 **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 | 318 | 252 | 594 | 110 | 252 | 561 | 96 | 6 | 90-110 | 20 | |

**Lab Batch ID:** 3124486 **QC- Sample ID:** 659915-041 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.28.2020 **Date Prepared:** 04.28.2020 **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) | <50.0 | 1000 | 947 | 95 | 997 | 1090 | 109 | 14 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1030 | 103 | 997 | 1180 | 118 | 14 | 70-130 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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: EOG Rattlesnake Reuse

**Work Order # :** 659915 **Project ID:** 212C-MD-01974

**Lab Batch ID:** 3124490 **QC- Sample ID:** 659915-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.28.2020 **Date Prepared:** 04.28.2020 **Analyst:** ARM

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <49.9 | 997 | 1130 | 113 | 996 | 1130 | 113 | 0 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 1230 | 123 | 996 | 1240 | 124 | 1 | 70-130 | 20 | |

**Lab Batch ID:** 3124492 **QC- Sample ID:** 659915-021 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04.28.2020 **Date Prepared:** 04.28.2020 **Analyst:** ARM

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

| TPH By SW8015 Mod<br>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) | <49.9 | 997 | 1030 | 103 | 999 | 1030 | 103 | 0 | 70-130 | 20 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 1140 | 114 | 999 | 1150 | 115 | 1 | 70-130 | 20 | |

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

Matrix Spike Duplicate Percent Recovery [G] = 100*(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.

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**Analysis Request of Chain of Custody Record**

1059915



# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse | |
| **Project Location: (county, state)** Lea Co. NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 Sulfate TDS | Chloride | General Water Chemistry (see attached list) | Anion/Cation Balance | | | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH 218 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH 219 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH 220 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH 221 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | (con't on next page) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| | 4/28/2020 | 923 | | | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

**LAB USE ONLY**

Sample Temperature 0.6 | 0.3

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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**Analysis Request of Chain of Custody Record**

1DS9915

Page 2 of 5

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse | |
| **Project Location: (county, state)** Lea Co. NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH 222 (3') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 223 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 224 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 225 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 226 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 227 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 228 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 229 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 230 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 231 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 4/28/2020 | Time: 923 | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: Time:

Date: Time:

Date: Time:

**LAB USE ONLY**

Sample Temperature 0.6/0.3

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr (48 hr) 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Released to Imaging: 7/15/2021 9:51:59 AM

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**Analysis Request of Chain of Custody Record**

lbs9915

Page 3 of 5

# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG | **Site Manager:** | Mike Carmona |
| **Project Name:** | Rattlesnake Reuse | | |
| **Project Location: (county, state)** | Lea Co. NM | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | Todd Wells | | |
| **Receiving Laboratory:** | | **Sampler Signature:** | Adrian Garcia |
| **Comments:** | | | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH 232 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | BH 233 (3') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | BH 234 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | BH 235 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | BH 236 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | BH 237 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | BH 238 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | BH 239 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | BH 240 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | BH 241 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 4/29/2020 | Time: 923 | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: Time:

**LAB USE ONLY**
Sample Temperature
0.6 / 0.3

**REMARKS:**
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr (48 hr) 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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**Analysis Request of Chain of Custody Record**

605915



# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse | |
| **Project Location: (county, state)** Lea Co. NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH 242 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 243 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 244 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 245 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 246 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 247 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 248 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 249 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 250 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | BH 251 (2') | 4/22/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 4/28/2020 | Time: 923 | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: Time:

**LAB USE ONLY**
Sample Temperature 0.0/0.3

**REMARKS:**
- ☐ STANDARD
- ☐ RUSH: Same Day 24 hr (48 hr) 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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**Analysis Request of Chain of Custody Record**

lc59915

Page 5 of 5

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse | |
| **Project Location: (county, state)** Lea Co. NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH 252 (2') | 4/22/2020 | | | X | | | X | X | 1 | N | X | | X | | | | | | | | | | | | X | | | | |
| | BH 253 (2') | 4/22/2020 | | | X | | | X | X | 1 | N | X | | X | | | | | | | | | | | | X | | | | |
| | BH 254 (2') | 4/22/2020 | | | X | | | X | X | 1 | N | X | | X | | | | | | | | | | | | X | | | | |
| | BH 255 (2') | 4/22/2020 | | | X | | | X | X | 1 | N | X | | X | | | | | | | | | | | | X | | | | |
| | BH 256 (2') | 4/22/2020 | | | X | | | X | X | 1 | N | X | | X | | | | | | | | | | | | X | | | | |
| | BH 257 (2') | 4/22/2020 | | | X | | | X | X | 1 | N | X | | X | | | | | | | | | | | | X | | | | |
| | BH 258 (2') | 4/22/2020 | | | X | | | X | X | 1 | N | X | | X | | | | | | | | | | | | X | | | | |
| | BH 259 (2') | 4/22/2020 | | | X | | | X | X | 1 | N | X | | X | | | | | | | | | | | | X | | | | |
| | BH 260 (2') | 4/22/2020 | | | X | | | X | X | 1 | N | X | | X | | | | | | | | | | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 4/28/2020 | Time: 923 | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: Time:

**LAB USE ONLY**

Sample Temperature 0.0 | 0.3

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 04.28.2020 09.23.00 AM

**Work Order #:** 659915

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : R9**

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | .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** | BTEX was in bulk container |
| #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)? | **N/A** | |
| #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:** Brianna Teel Date: 04.28.2020
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 04.28.2020
Jessica Kramer

# Certificate of Analysis Summary 660650

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.08.2020 15:13
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660650-001 | | 660650-002 | | 660650-003 | | 660650-004 | | 660650-005 | | 660650-006 | |
| | ***Field Id:*** | BH-37 (5') | | BH-43 (5') | | BH-44 (5') | | BH-45 (5') | | BH-50 (5') | | BH-51 (5') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | |
| | ***Analyzed:*** | 05.06.2020 22:34 | | 05.06.2020 22:54 | | 05.06.2020 23:14 | | 05.06.2020 23:34 | | 05.06.2020 23:54 | | 05.07.2020 01:13 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | 0.00202 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00401 | 0.00401 | <0.00402 | 0.00402 | <0.00397 | 0.00397 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | 0.00202 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.05.2020 16:45 | | 05.05.2020 16:45 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | |
| | ***Analyzed:*** | 05.05.2020 19:44 | | 05.05.2020 19:49 | | 05.06.2020 11:33 | | 05.06.2020 11:53 | | 05.06.2020 11:58 | | 05.06.2020 12:04 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 203 | 5.00 | 240 | 5.00 | 200 X | 5.01 | 178 | 4.98 | 207 | 4.97 | 181 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | |
| | ***Analyzed:*** | 05.06.2020 12:13 | | 05.06.2020 13:17 | | 05.06.2020 13:37 | | 05.06.2020 13:58 | | 05.06.2020 14:19 | | 05.06.2020 14:40 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660650

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.08.2020 15:13
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660650-007 | | 660650-008 | | 660650-009 | | 660650-010 | | 660650-011 | | 660650-013 | |
| | ***Field Id:*** | BH-52 (5') | | BH-53 (5') | | BH-54 (5') | | BH-55 (5') | | BH-57 (5') | | BH-59 (5') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | |
| | ***Analyzed:*** | 05.07.2020 01:33 | | 05.07.2020 01:53 | | 05.07.2020 02:13 | | 05.07.2020 02:34 | | 05.07.2020 03:52 | | 05.07.2020 04:12 | |
| | ***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 | 0.00662 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Toluene | | <0.00200 | 0.00200 | 0.00528 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00200 | 0.00200 | 0.00615 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00399 | 0.00399 | 0.00769 | 0.00398 | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00402 | 0.00402 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00200 | 0.00200 | 0.00602 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00200 | 0.00200 | 0.0137 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00200 | 0.00200 | 0.0318 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | |
| | ***Analyzed:*** | 05.06.2020 12:09 | | 05.06.2020 12:25 | | 05.06.2020 12:30 | | 05.06.2020 12:35 | | 05.06.2020 12:40 | | 05.06.2020 12:46 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 228 | 5.03 | 235 | 5.01 | 233 | 4.99 | 242 | 5.00 | 213 | 5.00 | 138 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | |
| | ***Analyzed:*** | 05.06.2020 15:02 | | 05.06.2020 15:24 | | 05.06.2020 15:45 | | 05.06.2020 16:06 | | 05.06.2020 16:48 | | 05.06.2020 17:09 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660650

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.08.2020 15:13
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660650-014 | | 660650-015 | | 660650-016 | | 660650-017 | | 660650-018 | | 660650-019 | |
| | ***Field Id:*** | BH-60 (5') | | BH-61 (5') | | BH-65 5') | | BH-66 (5') | | BH-67 (5') | | BH-68 (5') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.06.2020 17:00 | |
| | ***Analyzed:*** | 05.07.2020 04:33 | | 05.07.2020 04:53 | | 05.07.2020 05:13 | | 05.07.2020 05:33 | | 05.07.2020 05:53 | | 05.07.2020 06:13 | |
| | ***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 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Toluene | | 0.00209 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00396 | 0.00396 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total BTEX | | 0.00209 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 10:50 | |
| | ***Analyzed:*** | 05.06.2020 12:51 | | 05.06.2020 13:07 | | 05.06.2020 13:12 | | 05.06.2020 13:28 | | 05.06.2020 13:44 | | 05.06.2020 13:49 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 154 X | 4.97 | 159 | 5.02 | 152 | 5.04 | 142 | 5.03 | 205 | 4.97 | 154 | 4.97 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.06.2020 11:15 | |
| | ***Analyzed:*** | 05.06.2020 17:30 | | 05.06.2020 17:51 | | 05.06.2020 18:12 | | 05.06.2020 18:33 | | 05.06.2020 18:54 | | 05.06.2020 19:15 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660650

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County, New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.08.2020 15:13
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660650-020 | | 660650-021 | | 660650-022 | | 660650-023 | | | | | |
| | ***Field Id:*** | BH-70 (5') | | NSW-3 | | ESW-2 | | BH-56 | | | | | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | 05.05.2020 00:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.06.2020 17:00 | | 05.06.2020 17:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | | | | |
| | ***Analyzed:*** | 05.07.2020 06:33 | | 05.07.2020 06:54 | | 05.07.2020 11:31 | | 05.07.2020 11:52 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | | | | |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | 0.00228 | 0.00202 | <0.00202 | 0.00202 | | | | |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | 0.00251 | 0.00202 | <0.00202 | 0.00202 | | | | |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00403 | 0.00403 | <0.00404 | 0.00404 | | | | |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | | | | |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | | | | |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | 0.00479 | 0.00202 | <0.00202 | 0.00202 | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | | | | | |
| | ***Analyzed:*** | 05.06.2020 13:33 | | 05.06.2020 13:38 | | 05.06.2020 12:19 | | 05.06.2020 12:40 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 164 | 5.03 | 183 | 4.99 | 149 | 4.99 | 236 | 4.95 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 11:15 | | 05.06.2020 11:15 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | | | | |
| | ***Analyzed:*** | 05.06.2020 19:37 | | 05.06.2020 19:59 | | 05.07.2020 17:03 | | 05.07.2020 17:24 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |

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

Jessica Kramer
Project Manager

# Analytical Report 660650

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG Rattlesnake Reuse Pit**

**212C-MD-01974**

**05.08.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.08.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **660650**
**EOG Rattlesnake Reuse Pit**
Project Address: Lea County, New Mexico

**Mike Carmona**:

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) 660650. 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. 660650 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

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# Sample Cross Reference 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| BH-37 (5') | S | 05.05.2020 00:00 | | 660650-001 |
| BH-43 (5') | S | 05.05.2020 00:00 | | 660650-002 |
| BH-44 (5') | S | 05.05.2020 00:00 | | 660650-003 |
| BH-45 (5') | S | 05.05.2020 00:00 | | 660650-004 |
| BH-50 (5') | S | 05.05.2020 00:00 | | 660650-005 |
| BH-51 (5') | S | 05.05.2020 00:00 | | 660650-006 |
| BH-52 (5') | S | 05.05.2020 00:00 | | 660650-007 |
| BH-53 (5') | S | 05.05.2020 00:00 | | 660650-008 |
| BH-54 (5') | S | 05.05.2020 00:00 | | 660650-009 |
| BH-55 (5') | S | 05.05.2020 00:00 | | 660650-010 |
| BH-57 (5') | S | 05.05.2020 00:00 | | 660650-011 |
| BH-59 (5') | S | 05.05.2020 00:00 | | 660650-013 |
| BH-60 (5') | S | 05.05.2020 00:00 | | 660650-014 |
| BH-61 (5') | S | 05.05.2020 00:00 | | 660650-015 |
| BH-65 5') | S | 05.05.2020 00:00 | | 660650-016 |
| BH-66 (5') | S | 05.05.2020 00:00 | | 660650-017 |
| BH-67 (5') | S | 05.05.2020 00:00 | | 660650-018 |
| BH-68 (5') | S | 05.05.2020 00:00 | | 660650-019 |
| BH-70 (5') | S | 05.05.2020 00:00 | | 660650-020 |
| NSW-3 | S | 05.05.2020 00:00 | | 660650-021 |
| ESW-2 | S | 05.05.2020 00:00 | | 660650-022 |
| BH-56 | S | 05.05.2020 00:00 | | 660650-023 |
| BH-58 (5') | S | 05.05.2020 00:00 | | Not Analyzed |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *660650*

Report Date: *05.08.2020*
Date Received: *05.05.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3125241 Inorganic Anions by EPA 300/300.1

Lab Sample ID 660650-014 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 660650-003, -004, -005, -006, -007, -008, -009, -010, -011, -013, -014, -015, -016, -017, -018, -019, -020, -021.

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

Batch: LBA-3125270 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 660650-009,660650-010,660650-013,660650-014,660650-015,660650-016,660650-017,660650-018,660650-019,660650-020,660650-007,660650-005,660650-003,660650-004.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7702865-1-BKS,7702865-1-BSD,660650-001 S,660650-001 SD,660650-001,660650-002,660650-003,660650-004,660650-005,660650-007,660650-009,660650-010,660650-013,660650-014,660650-015,660650-016,660650-017,660650-018,660650-020,660650-021.

Batch: LBA-3125411 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 660652-001 S,660652-001 SD,660650-022,660650-023.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7702947-1-BKS,7702947-1-BSD,660652-001 S,660652-001 SD,660650-023,660650-022.

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-37 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-001 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.05.2020 16:45 | Basis: | Wet Weight |
| Seq Number: | 3125118 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **203** | 5.00 | mg/kg | 05.05.2020 19:44 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 12:13 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 12:13 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 12:13 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 12:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.06.2020 12:13 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.06.2020 12:13 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-37 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-001 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.06.2020 22:34 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.06.2020 22:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.06.2020 22:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.06.2020 22:34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.06.2020 22:34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.06.2020 22:34 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.06.2020 22:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 149 | % | 70-130 | 05.06.2020 22:34 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 119 | % | 70-130 | 05.06.2020 22:34 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-43 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-002 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.05.2020 16:45 | Basis: | Wet Weight |
| Seq Number: | 3125118 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **240** | 5.00 | mg/kg | 05.05.2020 19:49 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.06.2020 13:17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.06.2020 13:17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.06.2020 13:17 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.06.2020 13:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 05.06.2020 13:17 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 05.06.2020 13:17 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-43 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-002 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 22:54 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 22:54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 22:54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.06.2020 22:54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 22:54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 22:54 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.06.2020 22:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 130 | % | 70-130 | 05.06.2020 22:54 | |
| 4-Bromofluorobenzene | 460-00-4 | 140 | % | 70-130 | 05.06.2020 22:54 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-44 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-003 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **200** | 5.01 | mg/kg | 05.06.2020 11:33 | X | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 13:37 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 13:37 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 13:37 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 13:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 05.06.2020 13:37 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-130 | 05.06.2020 13:37 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-44 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-003 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.06.2020 23:14 | U | 1 |
| **Toluene** | 108-88-3 | **0.00202** | 0.00200 | mg/kg | 05.06.2020 23:14 | | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.06.2020 23:14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.06.2020 23:14 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.06.2020 23:14 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.06.2020 23:14 | U | 1 |
| **Total BTEX** | | **0.00202** | 0.00200 | mg/kg | 05.06.2020 23:14 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 143 | % | 70-130 | 05.06.2020 23:14 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 172 | % | 70-130 | 05.06.2020 23:14 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-45 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-004 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **178** | 4.98 | mg/kg | 05.06.2020 11:53 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 13:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 13:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 13:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 13:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 05.06.2020 13:58 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 05.06.2020 13:58 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-45 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-004 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.06.2020 23:34 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.06.2020 23:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.06.2020 23:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.06.2020 23:34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.06.2020 23:34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.06.2020 23:34 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.06.2020 23:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 174 | % | 70-130 | 05.06.2020 23:34 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 139 | % | 70-130 | 05.06.2020 23:34 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-50 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-005 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **207** | 4.97 | mg/kg | 05.06.2020 11:58 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 14:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 14:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 14:19 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 14:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 05.06.2020 14:19 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.06.2020 14:19 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-50 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-005 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 23:54 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 23:54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 23:54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.06.2020 23:54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 23:54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.06.2020 23:54 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.06.2020 23:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 162 | % | 70-130 | 05.06.2020 23:54 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 137 | % | 70-130 | 05.06.2020 23:54 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-51 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-006 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **181** | 4.95 | mg/kg | 05.06.2020 12:04 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 14:40 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 14:40 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 14:40 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 14:40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.06.2020 14:40 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.06.2020 14:40 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-51 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-006 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 01:13 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 01:13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 01:13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 01:13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 01:13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 01:13 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 01:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 122 | % | 70-130 | 05.07.2020 01:13 | |
| 4-Bromofluorobenzene | 460-00-4 | 129 | % | 70-130 | 05.07.2020 01:13 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-52 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-007 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **228** | 5.03 | mg/kg | 05.06.2020 12:09 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.06.2020 15:02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.06.2020 15:02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.06.2020 15:02 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.06.2020 15:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 05.06.2020 15:02 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 05.06.2020 15:02 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-52 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-007 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 01:33 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 01:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 01:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.07.2020 01:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 01:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 01:33 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 01:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 172 | % | 70-130 | 05.07.2020 01:33 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 136 | % | 70-130 | 05.07.2020 01:33 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-53 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-008 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **235** | 5.01 | mg/kg | 05.06.2020 12:25 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 15:24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 15:24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 15:24 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 15:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 05.06.2020 15:24 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.06.2020 15:24 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-53 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-008 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Benzene** | 71-43-2 | **0.00662** | 0.00199 | mg/kg | 05.07.2020 01:53 | | 1 |
| **Toluene** | 108-88-3 | **0.00528** | 0.00199 | mg/kg | 05.07.2020 01:53 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00615** | 0.00199 | mg/kg | 05.07.2020 01:53 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00769** | 0.00398 | mg/kg | 05.07.2020 01:53 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00602** | 0.00199 | mg/kg | 05.07.2020 01:53 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0137** | 0.00199 | mg/kg | 05.07.2020 01:53 | | 1 |
| **Total BTEX** | | **0.0318** | 0.00199 | mg/kg | 05.07.2020 01:53 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 05.07.2020 01:53 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 05.07.2020 01:53 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-54 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-009 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **233** | 4.99 | mg/kg | 05.06.2020 12:30 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 15:45 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 15:45 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 15:45 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 15:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.06.2020 15:45 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.06.2020 15:45 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-54 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-009 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 02:13 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 02:13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 02:13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 02:13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 02:13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 02:13 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 02:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 187 | % | 70-130 | 05.07.2020 02:13 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 145 | % | 70-130 | 05.07.2020 02:13 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-55 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-010 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **242** | 5.00 | mg/kg | 05.06.2020 12:35 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 16:06 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 16:06 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 16:06 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 16:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 05.06.2020 16:06 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.06.2020 16:06 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-55 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-010 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 02:34 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 02:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 02:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.07.2020 02:34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 02:34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 02:34 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.07.2020 02:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 152 | % | 70-130 | 05.07.2020 02:34 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 195 | % | 70-130 | 05.07.2020 02:34 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-57 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-011 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **213** | 5.00 | mg/kg | 05.06.2020 12:40 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 16:48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 16:48 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 16:48 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 16:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 05.06.2020 16:48 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.06.2020 16:48 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-57 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-011 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 03:52 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 03:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 03:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.07.2020 03:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 03:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 03:52 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.07.2020 03:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 117 | % | 70-130 | 05.07.2020 03:52 | |
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 05.07.2020 03:52 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-59 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-013 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **138** | 5.00 | mg/kg | 05.06.2020 12:46 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 17:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 17:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 17:09 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 17:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.06.2020 17:09 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.06.2020 17:09 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-59 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-013 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 04:12 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 04:12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 04:12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 04:12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 04:12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 04:12 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 04:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 143 | % | 70-130 | 05.07.2020 04:12 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 165 | % | 70-130 | 05.07.2020 04:12 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-60 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-014 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **154** | 4.97 | mg/kg | 05.06.2020 12:51 | X | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 17:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 17:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 17:30 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 17:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 05.06.2020 17:30 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.06.2020 17:30 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-60 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-014 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 04:33 | U | 1 |
| **Toluene** | 108-88-3 | **0.00209** | 0.00198 | mg/kg | 05.07.2020 04:33 | | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 04:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.07.2020 04:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 04:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 04:33 | U | 1 |
| **Total BTEX** | | **0.00209** | 0.00198 | mg/kg | 05.07.2020 04:33 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 182 | % | 70-130 | 05.07.2020 04:33 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 134 | % | 70-130 | 05.07.2020 04:33 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-61 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-015 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **159** | 5.02 | mg/kg | 05.06.2020 13:07 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.06.2020 17:51 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.06.2020 17:51 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.06.2020 17:51 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.06.2020 17:51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.06.2020 17:51 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 05.06.2020 17:51 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-61 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-015 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 04:53 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 04:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 04:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.07.2020 04:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 04:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 04:53 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 04:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 185 | % | 70-130 | 05.07.2020 04:53 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 132 | % | 70-130 | 05.07.2020 04:53 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-65 5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-016 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **152** | 5.04 | mg/kg | 05.06.2020 13:12 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 18:12 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 18:12 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 18:12 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 18:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 05.06.2020 18:12 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.06.2020 18:12 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-65 5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-016 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:13 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 05:13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:13 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 181 | % | 70-130 | 05.07.2020 05:13 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 135 | % | 70-130 | 05.07.2020 05:13 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-66 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-017 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **142** | 5.03 | mg/kg | 05.06.2020 13:28 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:33 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 18:33 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:33 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.06.2020 18:33 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 05.06.2020 18:33 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-66 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-017 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 05:33 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 05:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 05:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.07.2020 05:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 05:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 05:33 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 05:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 135 | % | 70-130 | 05.07.2020 05:33 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 164 | % | 70-130 | 05.07.2020 05:33 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-67 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-018 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **205** | 4.97 | mg/kg | 05.06.2020 13:44 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 18:54 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:54 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.06.2020 18:54 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.06.2020 18:54 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-67 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-018 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:53 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 05:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:53 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 05:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 163 | % | 70-130 | 05.07.2020 05:53 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 134 | % | 70-130 | 05.07.2020 05:53 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-68 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-019 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **154** | 4.97 | mg/kg | 05.06.2020 13:49 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 19:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 19:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 19:15 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 19:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 05.06.2020 19:15 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.06.2020 19:15 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-68 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-019 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 06:13 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 06:13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 06:13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.07.2020 06:13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 06:13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 06:13 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.07.2020 06:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 134 | % | 70-130 | 05.07.2020 06:13 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 05.07.2020 06:13 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-70 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-020 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **164** | 5.03 | mg/kg | 05.06.2020 13:33 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 19:37 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 19:37 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 19:37 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 19:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 112 | % | 70-130 | 05.06.2020 19:37 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-130 | 05.06.2020 19:37 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-70 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-020 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 06:33 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 06:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 06:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 06:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 06:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 06:33 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 06:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 195 | % | 70-130 | 05.07.2020 06:33 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 147 | % | 70-130 | 05.07.2020 06:33 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-3** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-021 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 10:50 | Basis: | Wet Weight |
| Seq Number: | 3125241 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **183** | 4.99 | mg/kg | 05.06.2020 13:38 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:15 | Basis: | Wet Weight |
| Seq Number: | 3125265 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 19:59 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 19:59 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 19:59 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 19:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 05.06.2020 19:59 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-130 | 05.06.2020 19:59 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-3** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-021 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.06.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125270 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 06:54 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 06:54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 06:54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.07.2020 06:54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 06:54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 06:54 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 06:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 128 | % | 70-130 | 05.07.2020 06:54 | |
| 4-Bromofluorobenzene | 460-00-4 | 169 | % | 70-130 | 05.07.2020 06:54 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-2** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-022 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **149** | 4.99 | mg/kg | 05.06.2020 12:19 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 17:03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 17:03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 17:03 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 17:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 05.07.2020 17:03 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-130 | 05.07.2020 17:03 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-2** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-022 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 11:31 | U | 1 |
| **Toluene** | 108-88-3 | **0.00228** | 0.00202 | mg/kg | 05.07.2020 11:31 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00251** | 0.00202 | mg/kg | 05.07.2020 11:31 | | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.07.2020 11:31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 11:31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 11:31 | U | 1 |
| **Total BTEX** | | **0.00479** | 0.00202 | mg/kg | 05.07.2020 11:31 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 138 | % | 70-130 | 05.07.2020 11:31 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 191 | % | 70-130 | 05.07.2020 11:31 | ** |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-56** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-023 | Date Collected: | 05.05.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **236** | 4.95 | mg/kg | 05.06.2020 12:40 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 17:24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 17:24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 17:24 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 17:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 05.07.2020 17:24 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.07.2020 17:24 | |

# Certificate of Analytical Results 660650

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-56** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660650-023 | Date Collected: | 05.05.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 11:52 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 11:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 11:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 05.07.2020 11:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 11:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 11:52 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.07.2020 11:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 210 | % | 70-130 | 05.07.2020 11:52 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 137 | % | 70-130 | 05.07.2020 11:52 | ** |

# 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. **ND** Not Detected.

**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

# QC Summary 660650



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125118 — Matrix: Solid — Date Prep: 05.05.2020
MB Sample Id: 7702748-1-BLK — LCS Sample Id: 7702748-1-BKS — LCSD Sample Id: 7702748-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 258 | 103 | 244 | 98 | 90-110 | 6 | 20 | mg/kg | 05.05.2020 17:17 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125241 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702788-1-BLK — LCS Sample Id: 7702788-1-BKS — LCSD Sample Id: 7702788-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 243 | 97 | 246 | 98 | 90-110 | 1 | 20 | mg/kg | 05.06.2020 11:15 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125250 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702789-1-BLK — LCS Sample Id: 7702789-1-BKS — LCSD Sample Id: 7702789-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 268 | 107 | 268 | 107 | 90-110 | 0 | 20 | mg/kg | 05.06.2020 12:06 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125118 — Matrix: Soil — Date Prep: 05.05.2020
Parent Sample Id: 660520-004 — MS Sample Id: 660520-004 S — MSD Sample Id: 660520-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 22.7 | 252 | 274 | 100 | 278 | 101 | 90-110 | 1 | 20 | mg/kg | 05.05.2020 17:33 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125118 — Matrix: Soil — Date Prep: 05.05.2020
Parent Sample Id: 660570-006 — MS Sample Id: 660570-006 S — MSD Sample Id: 660570-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 96.2 | 250 | 322 | 90 | 330 | 94 | 90-110 | 2 | 20 | mg/kg | 05.05.2020 18:46 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125241 — Matrix: Soil — Date Prep: 05.06.2020
Parent Sample Id: 660650-003 — MS Sample Id: 660650-003 S — MSD Sample Id: 660650-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 200 | 251 | 421 | 88 | 432 | 92 | 90-110 | 3 | 20 | mg/kg | 05.06.2020 11:42 | X |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 660650



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125241 — Matrix: Soil — Date Prep: 05.06.2020
Parent Sample Id: 660650-014 — MS Sample Id: 660650-014 S — MSD Sample Id: 660650-014 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 154 | 249 | 352 | 80 | 389 | 94 | 90-110 | 10 | 20 | mg/kg | 05.06.2020 12:56 | X |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125250 — Matrix: Soil — Date Prep: 05.06.2020
Parent Sample Id: 660650-022 — MS Sample Id: 660650-022 S — MSD Sample Id: 660650-022 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 149 | 250 | 404 | 102 | 403 | 102 | 90-110 | 0 | 20 | mg/kg | 05.06.2020 12:26 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125250 — Matrix: Soil — Date Prep: 05.06.2020
Parent Sample Id: 660652-011 — MS Sample Id: 660652-011 S — MSD Sample Id: 660652-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 167 | 251 | 431 | 105 | 429 | 104 | 90-110 | 0 | 20 | mg/kg | 05.06.2020 14:02 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125265 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702813-1-BLK — LCS Sample Id: 7702813-1-BKS — LCSD Sample Id: 7702813-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 961 | 96 | 953 | 95 | 70-130 | 1 | 20 | mg/kg | 05.06.2020 11:30 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1060 | 106 | 1020 | 102 | 70-130 | 4 | 20 | mg/kg | 05.06.2020 11:30 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 100 | | 98 | | 107 | | 70-130 | % | 05.06.2020 11:30 |
| o-Terphenyl | 99 | | 101 | | 101 | | 70-130 | % | 05.06.2020 11:30 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125395 — Matrix: Solid — Date Prep: 05.07.2020
MB Sample Id: 7702848-1-BLK — LCS Sample Id: 7702848-1-BKS — LCSD Sample Id: 7702848-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 968 | 97 | 904 | 90 | 70-130 | 7 | 20 | mg/kg | 05.07.2020 11:42 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 948 | 95 | 869 | 87 | 70-130 | 9 | 20 | mg/kg | 05.07.2020 11:42 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 95 | | 98 | | 90 | | 70-130 | % | 05.07.2020 11:42 |
| o-Terphenyl | 100 | | 97 | | 90 | | 70-130 | % | 05.07.2020 11:42 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 660650



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3125265 Matrix: Solid Date Prep: 05.06.2020
MB Sample Id: 7702813-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.06.2020 11:09 | |

**Analytical Method:** **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3125395 Matrix: Solid Date Prep: 05.07.2020
MB Sample Id: 7702848-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.07.2020 11:21 | |

**Analytical Method:** **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3125265 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660650-001 MS Sample Id: 660650-001 S MSD Sample Id: 660650-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 999 | 848 | 85 | 851 | 85 | 70-130 | 0 | 20 | mg/kg | 05.06.2020 12:35 | |
| Diesel Range Organics (DRO) | <50.0 | 999 | 827 | 83 | 836 | 84 | 70-130 | 1 | 20 | mg/kg | 05.06.2020 12:35 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 103 | | 104 | | 70-130 | % | 05.06.2020 12:35 |
| o-Terphenyl | 94 | | 95 | | 70-130 | % | 05.06.2020 12:35 |

**Analytical Method:** **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3125395 Matrix: Soil Date Prep: 05.07.2020
Parent Sample Id: 660652-041 MS Sample Id: 660652-041 S MSD Sample Id: 660652-041 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 998 | 961 | 96 | 820 | 82 | 70-130 | 16 | 20 | mg/kg | 05.07.2020 12:45 | |
| Diesel Range Organics (DRO) | <49.9 | 998 | 936 | 94 | 832 | 83 | 70-130 | 12 | 20 | mg/kg | 05.07.2020 12:45 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 115 | | 92 | | 70-130 | % | 05.07.2020 12:45 |
| o-Terphenyl | 112 | | 92 | | 70-130 | % | 05.07.2020 12:45 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 660650



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125270 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702865-1-BLK — LCS Sample Id: 7702865-1-BKS — LCSD Sample Id: 7702865-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0757 | 76 | 0.0717 | 72 | 70-130 | 5 | 35 | mg/kg | 05.06.2020 20:16 | |
| Toluene | <0.00200 | 0.100 | 0.0877 | 88 | 0.0882 | 88 | 70-130 | 1 | 35 | mg/kg | 05.06.2020 20:16 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0949 | 95 | 0.0972 | 97 | 70-130 | 2 | 35 | mg/kg | 05.06.2020 20:16 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.193 | 97 | 0.199 | 100 | 70-130 | 3 | 35 | mg/kg | 05.06.2020 20:16 | |
| o-Xylene | <0.00200 | 0.100 | 0.0965 | 97 | 0.0997 | 100 | 70-130 | 3 | 35 | mg/kg | 05.06.2020 20:16 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 98 | | 122 | | 129 | | 70-130 | % | 05.06.2020 20:16 |
| 4-Bromofluorobenzene | 109 | | 181 | ** | 190 | ** | 70-130 | % | 05.06.2020 20:16 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125411 — Matrix: Solid — Date Prep: 05.07.2020
MB Sample Id: 7702947-1-BLK — LCS Sample Id: 7702947-1-BKS — LCSD Sample Id: 7702947-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0838 | 84 | 0.0842 | 84 | 70-130 | 0 | 35 | mg/kg | 05.07.2020 07:53 | |
| Toluene | <0.00200 | 0.100 | 0.0901 | 90 | 0.0918 | 92 | 70-130 | 2 | 35 | mg/kg | 05.07.2020 07:53 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0956 | 96 | 0.0975 | 98 | 70-130 | 2 | 35 | mg/kg | 05.07.2020 07:53 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.194 | 97 | 0.197 | 99 | 70-130 | 2 | 35 | mg/kg | 05.07.2020 07:53 | |
| o-Xylene | <0.00200 | 0.100 | 0.0985 | 99 | 0.101 | 101 | 70-130 | 3 | 35 | mg/kg | 05.07.2020 07:53 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 98 | | 123 | | 129 | | 70-130 | % | 05.07.2020 07:53 |
| 4-Bromofluorobenzene | 110 | | 195 | ** | 198 | ** | 70-130 | % | 05.07.2020 07:53 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125270 — Matrix: Soil — Date Prep: 05.06.2020
Parent Sample Id: 660650-001 — MS Sample Id: 660650-001 S — MSD Sample Id: 660650-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0996 | 0.0993 | 100 | 0.0905 | 91 | 70-130 | 9 | 35 | mg/kg | 05.06.2020 20:56 | |
| Toluene | <0.00199 | 0.0996 | 0.111 | 111 | 0.101 | 102 | 70-130 | 9 | 35 | mg/kg | 05.06.2020 20:56 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.120 | 120 | 0.109 | 110 | 70-130 | 10 | 35 | mg/kg | 05.06.2020 20:56 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.246 | 124 | 0.223 | 113 | 70-130 | 10 | 35 | mg/kg | 05.06.2020 20:56 | |
| o-Xylene | <0.00199 | 0.0996 | 0.121 | 121 | 0.110 | 111 | 70-130 | 10 | 35 | mg/kg | 05.06.2020 20:56 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 125 | | 119 | | 70-130 | % | 05.06.2020 20:56 |
| 4-Bromofluorobenzene | 184 | ** | 171 | ** | 70-130 | % | 05.06.2020 20:56 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 660650



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3125411 Matrix: Soil Date Prep: 05.07.2020

Parent Sample Id: 660652-001 MS Sample Id: 660652-001 S MSD Sample Id: 660652-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | 0.0992 | 0.0950 | 96 | 0.118 | 118 | 70-130 | 22 | 35 | mg/kg | 05.07.2020 08:33 | |
| Toluene | <0.00198 | 0.0992 | 0.107 | 108 | 0.119 | 119 | 70-130 | 11 | 35 | mg/kg | 05.07.2020 08:33 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.115 | 116 | 0.125 | 125 | 70-130 | 8 | 35 | mg/kg | 05.07.2020 08:33 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.235 | 119 | 0.251 | 126 | 70-130 | 7 | 35 | mg/kg | 05.07.2020 08:33 | |
| o-Xylene | <0.00198 | 0.0992 | 0.120 | 121 | 0.127 | 127 | 70-130 | 6 | 35 | mg/kg | 05.07.2020 08:33 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 140 | ** | 132 | ** | 70-130 | % | 05.07.2020 08:33 |
| 4-Bromofluorobenzene | 228 | ** | 207 | ** | 70-130 | % | 05.07.2020 08:33 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 West Wall, Suite 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

10/6050

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Ratllesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Mike C |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-37 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-43 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-44 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-45 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-50 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-51 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-52 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-53 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-54 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-55 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 5/5/2020 | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Received by: Date: 5/5/20 Time: 1500

**LAB USE ONLY**

Sample Temperature
1-3 1.0
-0.3 1.9

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 West Wall, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
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1dec0650

| | |
|---|---|
| Client Name: EOG | Site Manager: Mike Carmona |
| Project Name: Ratllesnake Reuse Pit | |
| Project Location: (county, state) Lea County, New Mexico | Project #: 212C-MD-01974 |
| Invoice to: Todd Wells | |
| Receiving Laboratory: Xenco | Sampler Signature: Mike C |
| Comments: | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-57 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-58 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-59 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-60 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-61 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-65 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-66 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-67 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-68 (5') | 5/5/2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BH-70 (5') | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

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| Relinquished by: | Date: 5/5/2020 | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: 5/5/20 Time: 1500

**LAB USE ONLY**

Sample Temperature 1-3/1-0

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 West Wall, Suite 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

160180

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Ratllesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Mike C |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NSW-3 | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | ESW-2 | 5/5/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
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| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| | 5/5/2020 | | | 5/5/20 | 15:00 |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

**LAB USE ONLY**

Sample Temperature 13/1.0

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 05.05.2020 03.00.00 PM

**Work Order #:** 660650

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : R9**

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | 1 | |
| #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? | **Yes** | HOLD SAMPLE 012 MISSING RECEIVED EXTRA SAMPLE, BH 56, ADDED TO WORK ORDER |
| #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** | BTEX was in bulk container |
| #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)? | **N/A** | |
| #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:** Brianna Teel Date: 05.06.2020

Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 05.06.2020

Jessica Kramer

# Certificate of Analysis Summary 660652

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County,New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.11.2020 15:47
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660652-001 | | 660652-002 | | 660652-003 | | 660652-004 | | 660652-005 | | 660652-006 | |
| | ***Field Id:*** | BH-71 (3') | | BH-72 (3') | | BH-73 (3') | | BH-74 (3') | | BH-75 (3') | | BH-78 (3') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.07.2020 08:00 | | 05.08.2020 12:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | |
| | ***Analyzed:*** | 05.07.2020 10:11 | | 05.08.2020 16:45 | | 05.07.2020 12:32 | | 05.07.2020 12:52 | | 05.07.2020 13:12 | | 05.07.2020 13:32 | |
| | ***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 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Toluene | | <0.00198 | 0.00198 | 0.00448 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| m,p-Xylenes | | <0.00396 | 0.00396 | <0.00400 | 0.00400 | <0.00401 | 0.00401 | <0.00403 | 0.00403 | <0.00403 | 0.00403 | <0.00403 | 0.00403 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Total BTEX | | <0.00198 | 0.00198 | 0.00448 | 0.00200 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 10:50 | | 05.06.2020 10:50 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | |
| | ***Analyzed:*** | 05.06.2020 13:54 | | 05.06.2020 14:00 | | 05.06.2020 12:47 | | 05.06.2020 12:54 | | 05.06.2020 13:00 | | 05.06.2020 13:21 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 817 | 4.98 | 1170 | 24.9 | 229 | 4.98 | 261 | 4.96 | 363 | 5.00 | 101 | 5.01 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | |
| | ***Analyzed:*** | 05.06.2020 12:13 | | 05.06.2020 13:17 | | 05.06.2020 13:37 | | 05.06.2020 13:58 | | 05.06.2020 14:19 | | 05.06.2020 14:40 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660652

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County,New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.11.2020 15:47
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660652-007 | | 660652-008 | | 660652-009 | | 660652-010 | | 660652-011 | | 660652-012 | |
| | ***Field Id:*** | BH-79 (3') | | BH-82 (3') | | BH-83 (3') | | BH-84 (3') | | BH-89 (3') | | BH-90 (3') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | |
| | ***Analyzed:*** | 05.07.2020 14:54 | | 05.07.2020 15:14 | | 05.07.2020 15:34 | | 05.07.2020 15:54 | | 05.07.2020 16:15 | | 05.07.2020 16:35 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | |
| | ***Analyzed:*** | 05.06.2020 13:28 | | 05.06.2020 13:35 | | 05.06.2020 13:41 | | 05.06.2020 13:48 | | 05.06.2020 13:55 | | 05.06.2020 14:16 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 280 | 5.05 | 134 | 4.97 | 276 | 4.99 | 231 | 4.96 | 167 | 5.01 | 865 | 5.02 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | |
| | ***Analyzed:*** | 05.06.2020 15:02 | | 05.06.2020 15:24 | | 05.06.2020 15:45 | | 05.06.2020 16:06 | | 05.06.2020 16:48 | | 05.06.2020 17:09 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660652

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County,New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.11.2020 15:47
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660652-013 | | 660652-014 | | 660652-015 | | 660652-016 | | 660652-017 | | 660652-018 | |
| | ***Field Id:*** | BH-91 (3') | | BH-93 (3') | | BH-95 (5.5) | | BH-98 (5') | | BH-96 (3') | | BH-97 (3') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | |
| | ***Analyzed:*** | 05.07.2020 16:55 | | 05.07.2020 17:15 | | 05.07.2020 17:35 | | 05.07.2020 17:55 | | 05.08.2020 05:16 | | 05.08.2020 05:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00402 | 0.00402 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 11:20 | |
| | ***Analyzed:*** | 05.06.2020 14:23 | | 05.06.2020 14:43 | | 05.06.2020 14:50 | | 05.06.2020 14:57 | | 05.06.2020 15:04 | | 05.06.2020 15:10 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 157 | 4.99 | 26.0 | 5.04 | 27.0 | 5.03 | 124 | 5.01 | 24.9 | 4.98 | 2720 | 25.0 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 11:00 | |
| | ***Analyzed:*** | 05.06.2020 17:30 | | 05.06.2020 17:51 | | 05.06.2020 18:12 | | 05.06.2020 18:33 | | 05.06.2020 18:54 | | 05.06.2020 19:15 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660652

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County,New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.11.2020 15:47
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660652-019 | | 660652-020 | | 660652-021 | | 660652-022 | | 660652-023 | | 660652-024 | |
| | ***Field Id:*** | BH-103 (5.5') | | BH-105 (3') | | BH-106 (5') | | BH-107 (5') | | BH-108 (5') | | BH-111 (3') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | |
| | ***Analyzed:*** | 05.08.2020 05:56 | | 05.08.2020 06:17 | | 05.08.2020 06:37 | | 05.08.2020 06:58 | | 05.08.2020 07:18 | | 05.08.2020 07:38 | |
| | ***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 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Toluene | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 11:20 | | 05.06.2020 11:20 | | 05.06.2020 12:20 | | 05.06.2020 12:20 | | 05.06.2020 12:20 | | 05.06.2020 12:20 | |
| | ***Analyzed:*** | 05.06.2020 15:17 | | 05.06.2020 15:24 | | 05.06.2020 18:13 | | 05.06.2020 18:18 | | 05.06.2020 18:23 | | 05.06.2020 18:28 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 27.7 | 5.00 | 241 | 5.00 | 96.3 | 5.04 | 946 | 24.9 | 204 | 4.95 | 207 | 4.98 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 11:00 | | 05.06.2020 11:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | |
| | ***Analyzed:*** | 05.06.2020 19:37 | | 05.06.2020 19:59 | | 05.07.2020 08:57 | | 05.07.2020 09:53 | | 05.07.2020 10:12 | | 05.07.2020 10:30 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660652

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County,New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.11.2020 15:47
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660652-025 | | 660652-026 | | 660652-027 | | 660652-028 | | 660652-029 | | 660652-030 | |
| | ***Field Id:*** | BH-112 (3') | | BH-113 (3') | | BH-114 (5') | | BH-115 (5') | | BH-119 (5') | | BH-120 (3') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | |
| | ***Analyzed:*** | 05.08.2020 08:35 | | 05.08.2020 08:56 | | 05.08.2020 10:19 | | 05.08.2020 10:40 | | 05.08.2020 11:00 | | 05.08.2020 11:20 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Toluene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00404 | 0.00404 | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | |
| | ***Analyzed:*** | 05.07.2020 10:05 | | 05.07.2020 10:26 | | 05.07.2020 10:33 | | 05.07.2020 10:40 | | 05.07.2020 10:46 | | 05.07.2020 11:07 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 10.5 X | 5.01 | 69.1 | 4.98 | 86.3 | 24.8 | 953 | 24.8 | 1860 | 49.8 | 1860 | 25.0 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | |
| | ***Analyzed:*** | 05.07.2020 10:49 | | 05.07.2020 11:08 | | 05.07.2020 11:27 | | 05.07.2020 11:45 | | 05.07.2020 12:04 | | 05.07.2020 13:38 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660652

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County,New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.11.2020 15:47
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660652-031 | | 660652-032 | | 660652-033 | | 660652-034 | | 660652-035 | | 660652-036 | |
| | ***Field Id:*** | BH-122 (5') | | BH-127 (3') | | BH-128 (6.5') | | BH-129 (6.5') | | BH-130 (3') | | BH-136 (3') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | | 05.07.2020 17:00 | |
| | ***Analyzed:*** | 05.08.2020 11:41 | | 05.08.2020 12:01 | | 05.08.2020 12:22 | | 05.08.2020 12:42 | | 05.08.2020 13:02 | | 05.08.2020 13:23 | |
| | ***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 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | |
| | ***Analyzed:*** | 05.07.2020 11:14 | | 05.07.2020 11:21 | | 05.07.2020 11:28 | | 05.07.2020 11:34 | | 05.07.2020 11:41 | | 05.07.2020 12:02 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 1010 | 4.97 | 67.0 | 4.95 | 143 | 5.02 | 160 | 4.99 | 217 | 4.98 | 211 | 4.99 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | |
| | ***Analyzed:*** | 05.07.2020 14:15 | | 05.07.2020 14:34 | | 05.07.2020 14:53 | | 05.07.2020 15:12 | | 05.07.2020 15:31 | | 05.07.2020 15:50 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660652

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County,New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.11.2020 15:47
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660652-037 | | 660652-038 | | 660652-039 | | 660652-040 | | 660652-041 | | 660652-042 | |
| | ***Field Id:*** | BH-135 (3') | | BH-141 (3') | | BH-142 (3') | | BH-143 (3') | | BH-149 (3') | | BH-150 (3') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.07.2020 16:30 | | 05.07.2020 16:30 | | 05.07.2020 16:30 | | 05.07.2020 16:30 | | 05.07.2020 16:30 | | 05.07.2020 16:30 | |
| | ***Analyzed:*** | 05.07.2020 18:22 | | 05.07.2020 18:43 | | 05.07.2020 19:03 | | 05.07.2020 19:24 | | 05.07.2020 19:44 | | 05.07.2020 20:05 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Toluene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00396 | 0.00396 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | | 05.06.2020 13:30 | |
| | ***Analyzed:*** | 05.07.2020 12:09 | | 05.07.2020 12:29 | | 05.07.2020 12:36 | | 05.07.2020 12:43 | | 05.07.2020 12:50 | | 05.07.2020 12:57 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 32.8 | 25.1 | 22.2 | 4.96 | 406 | 4.99 | 837 | 5.04 | 86.5 | 4.97 | 33.7 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.06.2020 13:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | |
| | ***Analyzed:*** | 05.07.2020 16:09 | | 05.07.2020 16:28 | | 05.07.2020 16:48 | | 05.07.2020 17:07 | | 05.07.2020 12:24 | | 05.07.2020 13:28 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660652

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County,New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.11.2020 15:47
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660652-043 | | 660652-044 | | 660652-045 | | 660652-046 | | 660652-047 | | 660652-048 | |
| | ***Field Id:*** | BH-144 (3') | | BH-152 (3') | | BH-158 (3') | | BH-159 (3') | | BH-160 (5.5') | | BH-161 (3') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | | 05.01.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.07.2020 16:30 | | 05.07.2020 16:30 | | 05.07.2020 16:30 | | 05.07.2020 16:30 | | 05.07.2020 16:30 | | 05.07.2020 16:30 | |
| | ***Analyzed:*** | 05.07.2020 20:25 | | 05.07.2020 20:46 | | 05.07.2020 21:06 | | 05.07.2020 21:27 | | 05.07.2020 22:49 | | 05.07.2020 23:10 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 13:45 | | 05.06.2020 13:45 | | 05.06.2020 13:45 | | 05.06.2020 13:45 | | 05.06.2020 13:45 | | 05.06.2020 13:45 | |
| | ***Analyzed:*** | 05.06.2020 19:00 | | 05.06.2020 19:16 | | 05.06.2020 19:21 | | 05.06.2020 19:26 | | 05.06.2020 19:32 | | 05.06.2020 19:48 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 11.4 X | 5.02 | 398 | 4.97 | 89.2 | 4.98 | 37.9 | 5.00 | 49.1 | 4.98 | 71.2 | 25.0 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | | 05.07.2020 08:00 | |
| | ***Analyzed:*** | 05.07.2020 13:49 | | 05.07.2020 14:11 | | 05.07.2020 14:32 | | 05.07.2020 14:54 | | 05.07.2020 15:15 | | 05.07.2020 15:37 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 660652

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County,New Mexico

**Date Received in Lab:** Tue 05.05.2020 15:00
**Report Date:** 05.11.2020 15:47
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 660652-049 | | 660652-050 | | | | | | | | | |
| | ***Field Id:*** | NSW-6 | | ESW-4 | | | | | | | | | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | | | | | | | | |
| | ***Sampled:*** | 05.01.2020 00:00 | | 05.01.2020 00:00 | | | | | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.07.2020 16:30 | | 05.07.2020 16:30 | | | | | | | | | |
| | ***Analyzed:*** | 05.07.2020 23:30 | | 05.07.2020 23:51 | | | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | | | | | |
| Benzene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | | | | | | | | |
| Toluene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | | | | | | | | |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | | | | | | | | |
| m,p-Xylenes | | <0.00401 | 0.00401 | <0.00397 | 0.00397 | | | | | | | | |
| o-Xylene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | | | | | | | | |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | | | | | | | | |
| Total BTEX | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | | | | | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.06.2020 13:45 | | 05.06.2020 13:45 | | | | | | | | | |
| | ***Analyzed:*** | 05.06.2020 19:53 | | 05.06.2020 19:58 | | | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | | | | | |
| Chloride | | 295 | 5.03 | 184 | 5.05 | | | | | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.07.2020 08:00 | | 05.07.2020 08:00 | | | | | | | | | |
| | ***Analyzed:*** | 05.07.2020 15:58 | | 05.07.2020 16:19 | | | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | | | | | | | | |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | | | | | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | | | | | | | | |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | | | | | | | | |

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

Jessica Kramer
Project Manager

# Analytical Report 660652

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**Rattlesnake Reuse Pit**

**212C-MD-01974**

**05.11.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.11.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **660652**
**Rattlesnake Reuse Pit**
Project Address: Lea County,New Mexico

**Mike Carmona**:

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) 660652. 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. 660652 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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

# Sample Cross Reference 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| BH-71 (3') | S | 05.01.2020 00:00 | | 660652-001 |
| BH-72 (3') | S | 05.01.2020 00:00 | | 660652-002 |
| BH-73 (3') | S | 05.01.2020 00:00 | | 660652-003 |
| BH-74 (3') | S | 05.01.2020 00:00 | | 660652-004 |
| BH-75 (3') | S | 05.01.2020 00:00 | | 660652-005 |
| BH-78 (3') | S | 05.01.2020 00:00 | | 660652-006 |
| BH-79 (3') | S | 05.01.2020 00:00 | | 660652-007 |
| BH-82 (3') | S | 05.01.2020 00:00 | | 660652-008 |
| BH-83 (3') | S | 05.01.2020 00:00 | | 660652-009 |
| BH-84 (3') | S | 05.01.2020 00:00 | | 660652-010 |
| BH-89 (3') | S | 05.01.2020 00:00 | | 660652-011 |
| BH-90 (3') | S | 05.01.2020 00:00 | | 660652-012 |
| BH-91 (3') | S | 05.01.2020 00:00 | | 660652-013 |
| BH-93 (3') | S | 05.01.2020 00:00 | | 660652-014 |
| BH-95 (5.5) | S | 05.01.2020 00:00 | | 660652-015 |
| BH-98 (5') | S | 05.01.2020 00:00 | | 660652-016 |
| BH-96 (3') | S | 05.01.2020 00:00 | | 660652-017 |
| BH-97 (3') | S | 05.01.2020 00:00 | | 660652-018 |
| BH-103 (5.5') | S | 05.01.2020 00:00 | | 660652-019 |
| BH-105 (3') | S | 05.01.2020 00:00 | | 660652-020 |
| BH-106 (5') | S | 05.01.2020 00:00 | | 660652-021 |
| BH-107 (5') | S | 05.01.2020 00:00 | | 660652-022 |
| BH-108 (5') | S | 05.01.2020 00:00 | | 660652-023 |
| BH-111 (3') | S | 05.01.2020 00:00 | | 660652-024 |
| BH-112 (3') | S | 05.01.2020 00:00 | | 660652-025 |
| BH-113 (3') | S | 05.01.2020 00:00 | | 660652-026 |
| BH-114 (5') | S | 05.01.2020 00:00 | | 660652-027 |
| BH-115 (5') | S | 05.01.2020 00:00 | | 660652-028 |
| BH-119 (5') | S | 05.01.2020 00:00 | | 660652-029 |
| BH-120 (3') | S | 05.01.2020 00:00 | | 660652-030 |
| BH-122 (5') | S | 05.01.2020 00:00 | | 660652-031 |
| BH-127 (3') | S | 05.01.2020 00:00 | | 660652-032 |
| BH-128 (6.5') | S | 05.01.2020 00:00 | | 660652-033 |
| BH-129 (6.5') | S | 05.01.2020 00:00 | | 660652-034 |
| BH-130 (3') | S | 05.01.2020 00:00 | | 660652-035 |
| BH-136 (3') | S | 05.01.2020 00:00 | | 660652-036 |
| BH-135 (3') | S | 05.01.2020 00:00 | | 660652-037 |
| BH-141 (3') | S | 05.01.2020 00:00 | | 660652-038 |
| BH-142 (3') | S | 05.01.2020 00:00 | | 660652-039 |
| BH-143 (3') | S | 05.01.2020 00:00 | | 660652-040 |
| BH-149 (3') | S | 05.01.2020 00:00 | | 660652-041 |
| BH-150 (3') | S | 05.01.2020 00:00 | | 660652-042 |
| BH-144 (3') | S | 05.01.2020 00:00 | | 660652-043 |

# Sample Cross Reference 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | |
|---|---|---|---|
| BH-152 (3') | S | 05.01.2020 00:00 | 660652-044 |
| BH-158 (3') | S | 05.01.2020 00:00 | 660652-045 |
| BH-159 (3') | S | 05.01.2020 00:00 | 660652-046 |
| BH-160 (5.5') | S | 05.01.2020 00:00 | 660652-047 |
| BH-161 (3') | S | 05.01.2020 00:00 | 660652-048 |
| NSW-6 | S | 05.01.2020 00:00 | 660652-049 |
| ESW-4 | S | 05.01.2020 00:00 | 660652-050 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *660652*

Report Date: *05.11.2020*
Date Received: *05.05.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3125258 Inorganic Anions by EPA 300/300.1
Lab Sample ID 660652-043 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 660652-043, -044, -045, -046, -047, -048, -049, -050.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3125310 Inorganic Anions by EPA 300/300.1
Lab Sample ID 660652-035 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: 660652-025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040, -041, -042.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3125405 BTEX by EPA 8021B
Lab Sample ID 660652-021 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, o-Xylene recovered below QC limits in the Matrix Spike. Ethylbenzene, Toluene, m,p-Xylenes 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: 660652-017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3125411 BTEX by EPA 8021B
Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 660652-001 S,660652-001 SD,660652-007,660652-005,660652-009,660652-010,660652-012,660652-013,660652-015,660652-016,660652-004,660652-003,660652-006,660652-008.
Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7702947-1-BKS,7702947-1-BSD,660652-001 S,660652-001 SD,660652-016,660652-015,660652-001,660652-003,660652-004,660652-005,660652-006,660652-007,660652-008,660652-009,660652-010,660652-011,660652-012,660652-013.

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *660652*

Report Date: *05.11.2020*
Date Received: *05.05.2020*

Batch: LBA-3125496 BTEX by EPA 8021B
Due to matrix, the initial run for sample 001 was performed at a dilution of 10X.

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-71 (3')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-001 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.06.2020 10:50 Basis: Wet Weight

Seq Number: 3125241

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **817** | 4.98 | mg/kg | 05.06.2020 13:54 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 11:00 Basis: Wet Weight

Seq Number: 3125263

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 12:13 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 12:13 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 12:13 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 12:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 05.06.2020 12:13 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 05.06.2020 12:13 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-71 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-001 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 10:11 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 10:11 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 10:11 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.07.2020 10:11 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 10:11 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 10:11 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.07.2020 10:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 152 | % | 70-130 | 05.07.2020 10:11 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 121 | % | 70-130 | 05.07.2020 10:11 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-72 (3')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-002 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.06.2020 10:50 Basis: Wet Weight

Seq Number: 3125241

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1170** | 24.9 | mg/kg | 05.06.2020 14:00 | | 5 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 11:00 Basis: Wet Weight

Seq Number: 3125263

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 13:17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 13:17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 13:17 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 13:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 05.06.2020 13:17 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 05.06.2020 13:17 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-72 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-002 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.08.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3125496 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 16:45 | U | 1 |
| **Toluene** | 108-88-3 | **0.00448** | 0.00200 | mg/kg | 05.08.2020 16:45 | | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 16:45 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.08.2020 16:45 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 16:45 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 16:45 | U | 1 |
| **Total BTEX** | | **0.00448** | 0.00200 | mg/kg | 05.08.2020 16:45 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.08.2020 16:45 | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.08.2020 16:45 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-73 (3')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-003 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.06.2020 11:20 Basis: Wet Weight

Seq Number: 3125250

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **229** | 4.98 | mg/kg | 05.06.2020 12:47 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 11:00 Basis: Wet Weight

Seq Number: 3125263

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.06.2020 13:37 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.06.2020 13:37 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.06.2020 13:37 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.06.2020 13:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 80 | % | 70-130 | 05.06.2020 13:37 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-130 | 05.06.2020 13:37 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-73 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-003 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 12:32 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 12:32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 12:32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.07.2020 12:32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 12:32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 12:32 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 12:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 147 | % | 70-130 | 05.07.2020 12:32 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 211 | % | 70-130 | 05.07.2020 12:32 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-74 (3')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-004 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.06.2020 11:20 Basis: Wet Weight

Seq Number: 3125250

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **261** | 4.96 | mg/kg | 05.06.2020 12:54 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 11:00 Basis: Wet Weight

Seq Number: 3125263

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 13:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 13:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 13:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 13:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-130 | 05.06.2020 13:58 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-130 | 05.06.2020 13:58 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-74 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-004 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 12:52 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 12:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 12:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.07.2020 12:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 12:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 12:52 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.07.2020 12:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 144 | % | 70-130 | 05.07.2020 12:52 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 186 | % | 70-130 | 05.07.2020 12:52 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-75 (3')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-005 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.06.2020 11:20 Basis: Wet Weight

Seq Number: 3125250

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **363** | 5.00 | mg/kg | 05.06.2020 13:00 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 11:00 Basis: Wet Weight

Seq Number: 3125263

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 14:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 14:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 14:19 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 14:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 05.06.2020 14:19 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 05.06.2020 14:19 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-75 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-005 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:12 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.07.2020 13:12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:12 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 199 | % | 70-130 | 05.07.2020 13:12 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 140 | % | 70-130 | 05.07.2020 13:12 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-78 (3')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-006 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.06.2020 11:20 Basis: Wet Weight

Seq Number: 3125250

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **101** | 5.01 | mg/kg | 05.06.2020 13:21 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 11:00 Basis: Wet Weight

Seq Number: 3125263

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 14:40 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 14:40 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 14:40 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 14:40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 05.06.2020 14:40 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.06.2020 14:40 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-78 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-006 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:32 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.07.2020 13:32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:32 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.07.2020 13:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 144 | % | 70-130 | 05.07.2020 13:32 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 216 | % | 70-130 | 05.07.2020 13:32 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-79 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-007 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **280** | 5.05 | mg/kg | 05.06.2020 13:28 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 15:02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 15:02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 15:02 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 15:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 05.06.2020 15:02 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.06.2020 15:02 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-79 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-007 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 14:54 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 14:54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 14:54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.07.2020 14:54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 14:54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 14:54 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.07.2020 14:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 171 | % | 70-130 | 05.07.2020 14:54 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 132 | % | 70-130 | 05.07.2020 14:54 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-82 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-008 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **134** | 4.97 | mg/kg | 05.06.2020 13:35 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 15:24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 15:24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 15:24 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 15:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 05.06.2020 15:24 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 05.06.2020 15:24 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-82 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-008 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:14 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:14 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.07.2020 15:14 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:14 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:14 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 133 | % | 70-130 | 05.07.2020 15:14 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 192 | % | 70-130 | 05.07.2020 15:14 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-83 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-009 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **276** | 4.99 | mg/kg | 05.06.2020 13:41 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 15:45 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 15:45 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 15:45 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 15:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 05.06.2020 15:45 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.06.2020 15:45 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-83 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-009 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 15:34 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 15:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 15:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 15:34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 15:34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 15:34 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 15:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 196 | % | 70-130 | 05.07.2020 15:34 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 140 | % | 70-130 | 05.07.2020 15:34 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-84 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-010 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **231** | 4.96 | mg/kg | 05.06.2020 13:48 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 16:06 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 16:06 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 16:06 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 16:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 05.06.2020 16:06 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 05.06.2020 16:06 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-84 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-010 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:54 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.07.2020 15:54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:54 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 15:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 137 | % | 70-130 | 05.07.2020 15:54 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 185 | % | 70-130 | 05.07.2020 15:54 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-89 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-011 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **167** | 5.01 | mg/kg | 05.06.2020 13:55 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 16:48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 16:48 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 16:48 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 16:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 05.06.2020 16:48 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 05.06.2020 16:48 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-89 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-011 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:15 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 16:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:15 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 129 | % | 70-130 | 05.07.2020 16:15 | |
| 4-Bromofluorobenzene | 460-00-4 | 137 | % | 70-130 | 05.07.2020 16:15 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-90 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-012 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **865** | 5.02 | mg/kg | 05.06.2020 14:16 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 17:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 17:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 17:09 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 17:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-130 | 05.06.2020 17:09 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.06.2020 17:09 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-90 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-012 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 16:35 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 16:35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 16:35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.07.2020 16:35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 16:35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 16:35 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 16:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 192 | % | 70-130 | 05.07.2020 16:35 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 138 | % | 70-130 | 05.07.2020 16:35 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-91 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-013 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **157** | 4.99 | mg/kg | 05.06.2020 14:23 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 17:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 17:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 17:30 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 17:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-130 | 05.06.2020 17:30 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.06.2020 17:30 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-91 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-013 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:55 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 16:55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:55 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 16:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 188 | % | 70-130 | 05.07.2020 16:55 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 134 | % | 70-130 | 05.07.2020 16:55 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-93 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-014 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **26.0** | 5.04 | mg/kg | 05.06.2020 14:43 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 17:51 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 17:51 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 17:51 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 17:51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 05.06.2020 17:51 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 05.06.2020 17:51 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-93 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-014 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:15 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.07.2020 17:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:15 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 05.07.2020 17:15 | |
| 1,4-Difluorobenzene | 540-36-3 | 121 | % | 70-130 | 05.07.2020 17:15 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-95 (5.5)** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-015 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.06.2020 11:20 Basis: Wet Weight

Seq Number: 3125250

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **27.0** | 5.03 | mg/kg | 05.06.2020 14:50 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 11:00 Basis: Wet Weight

Seq Number: 3125263

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:12 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 18:12 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:12 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 05.06.2020 18:12 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 05.06.2020 18:12 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-95 (5.5)** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-015 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 17:35 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 17:35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 17:35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.07.2020 17:35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 17:35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 17:35 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.07.2020 17:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 143 | % | 70-130 | 05.07.2020 17:35 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 184 | % | 70-130 | 05.07.2020 17:35 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-98 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-016 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **124** | 5.01 | mg/kg | 05.06.2020 14:57 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 18:33 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 18:33 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 18:33 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 18:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 05.06.2020 18:33 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.06.2020 18:33 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-98 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-016 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:55 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.07.2020 17:55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:55 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 17:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 138 | % | 70-130 | 05.07.2020 17:55 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 189 | % | 70-130 | 05.07.2020 17:55 | ** |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-96 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-017 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **24.9** | 4.98 | mg/kg | 05.06.2020 15:04 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 18:54 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:54 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 18:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-130 | 05.06.2020 18:54 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.06.2020 18:54 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-96 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-017 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 05:16 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 05:16 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 05:16 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.08.2020 05:16 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 05:16 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 05:16 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.08.2020 05:16 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 05.08.2020 05:16 | |
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 05.08.2020 05:16 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-97 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-018 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **2720** | 25.0 | mg/kg | 05.06.2020 15:10 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.06.2020 19:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.06.2020 19:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.06.2020 19:15 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.06.2020 19:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-130 | 05.06.2020 19:15 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 05.06.2020 19:15 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-97 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-018 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:36 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:36 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:36 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.08.2020 05:36 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:36 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:36 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 05.08.2020 05:36 | |
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 05.08.2020 05:36 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-103 (5.5')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-019 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.06.2020 11:20 Basis: Wet Weight

Seq Number: 3125250

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **27.7** | 5.00 | mg/kg | 05.06.2020 15:17 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 11:00 Basis: Wet Weight

Seq Number: 3125263

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.06.2020 19:37 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.06.2020 19:37 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.06.2020 19:37 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.06.2020 19:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-130 | 05.06.2020 19:37 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-130 | 05.06.2020 19:37 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-103 (5.5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-019 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:56 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:56 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:56 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.08.2020 05:56 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:56 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:56 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.08.2020 05:56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 05.08.2020 05:56 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.08.2020 05:56 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-105 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-020 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 11:20 | Basis: | Wet Weight |
| Seq Number: | 3125250 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **241** | 5.00 | mg/kg | 05.06.2020 15:24 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3125263 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.06.2020 19:59 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.06.2020 19:59 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.06.2020 19:59 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.06.2020 19:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-130 | 05.06.2020 19:59 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.06.2020 19:59 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-105 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-020 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 06:17 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 06:17 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 06:17 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.08.2020 06:17 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 06:17 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 06:17 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.08.2020 06:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 111 | % | 70-130 | 05.08.2020 06:17 | |
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 05.08.2020 06:17 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-106 (5')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-021 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 05.06.2020 12:20 Basis: Wet Weight

Seq Number: 3125254

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **96.3** | 5.04 | mg/kg | 05.06.2020 18:13 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 13:00 Basis: Wet Weight

Seq Number: 3125389

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 08:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 08:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 08:57 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 08:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-130 | 05.07.2020 08:57 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-130 | 05.07.2020 08:57 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-106 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-021 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:37 | UX | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:37 | UX | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:37 | UX | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.08.2020 06:37 | UX | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:37 | UX | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:37 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 114 | % | 70-130 | 05.08.2020 06:37 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 05.08.2020 06:37 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-107 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-022 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 12:20 | Basis: | Wet Weight |
| Seq Number: | 3125254 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **946** | 24.9 | mg/kg | 05.06.2020 18:18 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 09:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 09:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 09:53 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 09:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 05.07.2020 09:53 | |
| o-Terphenyl | 84-15-1 | 87 | % | 70-130 | 05.07.2020 09:53 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-107 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-022 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:58 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:58 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:58 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.08.2020 06:58 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:58 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:58 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.08.2020 06:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 05.08.2020 06:58 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.08.2020 06:58 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-108 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-023 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 12:20 | Basis: | Wet Weight |
| Seq Number: | 3125254 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **204** | 4.95 | mg/kg | 05.06.2020 18:23 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 10:12 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 10:12 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 10:12 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 10:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 77 | % | 70-130 | 05.07.2020 10:12 | |
| o-Terphenyl | 84-15-1 | 78 | % | 70-130 | 05.07.2020 10:12 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-108 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-023 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 07:18 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 07:18 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 07:18 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.08.2020 07:18 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 07:18 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 07:18 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.08.2020 07:18 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 05.08.2020 07:18 | |
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 05.08.2020 07:18 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-111 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-024 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 12:20 | Basis: | Wet Weight |
| Seq Number: | 3125254 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **207** | 4.98 | mg/kg | 05.06.2020 18:28 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.07.2020 10:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.07.2020 10:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.07.2020 10:30 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.07.2020 10:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 78 | % | 70-130 | 05.07.2020 10:30 | |
| o-Terphenyl | 84-15-1 | 79 | % | 70-130 | 05.07.2020 10:30 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-111 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-024 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 07:38 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 07:38 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 07:38 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.08.2020 07:38 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 07:38 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 07:38 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.08.2020 07:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 05.08.2020 07:38 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.08.2020 07:38 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-112 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-025 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.5** | 5.01 | mg/kg | 05.07.2020 10:05 | X | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 10:49 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 10:49 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 10:49 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 10:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 77 | % | 70-130 | 05.07.2020 10:49 | |
| o-Terphenyl | 84-15-1 | 77 | % | 70-130 | 05.07.2020 10:49 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-112 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-025 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:35 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.08.2020 08:35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:35 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.08.2020 08:35 | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 05.08.2020 08:35 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-113 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-026 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **69.1** | 4.98 | mg/kg | 05.07.2020 10:26 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 11:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 11:08 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 11:08 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 11:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 05.07.2020 11:08 | |
| o-Terphenyl | 84-15-1 | 84 | % | 70-130 | 05.07.2020 11:08 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-113 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-026 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:56 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:56 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:56 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 05.08.2020 08:56 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:56 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:56 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.08.2020 08:56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.08.2020 08:56 | |
| 1,4-Difluorobenzene | 540-36-3 | 111 | % | 70-130 | 05.08.2020 08:56 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-114 (5')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-027 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: SPC Date Prep: 05.06.2020 13:30 Basis: Wet Weight

Seq Number: 3125310

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **86.3** | 24.8 | mg/kg | 05.07.2020 10:33 | | 5 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 13:00 Basis: Wet Weight

Seq Number: 3125389

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 11:27 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 11:27 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 11:27 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 11:27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 78 | % | 70-130 | 05.07.2020 11:27 | |
| o-Terphenyl | 84-15-1 | 80 | % | 70-130 | 05.07.2020 11:27 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-114 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-027 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 10:19 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 10:19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 10:19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.08.2020 10:19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 10:19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.08.2020 10:19 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.08.2020 10:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 05.08.2020 10:19 | |
| 4-Bromofluorobenzene | 460-00-4 | 95 | % | 70-130 | 05.08.2020 10:19 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-115 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-028 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **953** | 24.8 | mg/kg | 05.07.2020 10:40 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 11:45 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 11:45 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 11:45 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 11:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-130 | 05.07.2020 11:45 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 05.07.2020 11:45 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-115 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-028 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 10:40 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 10:40 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 10:40 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.08.2020 10:40 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 10:40 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 10:40 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.08.2020 10:40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 05.08.2020 10:40 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.08.2020 10:40 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-119 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-029 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1860** | 49.8 | mg/kg | 05.07.2020 10:46 | | 10 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 12:04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 12:04 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 12:04 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 12:04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 79 | % | 70-130 | 05.07.2020 12:04 | |
| o-Terphenyl | 84-15-1 | 81 | % | 70-130 | 05.07.2020 12:04 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-119 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-029 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:00 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.08.2020 11:00 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:00 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 05.08.2020 11:00 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.08.2020 11:00 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-120 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-030 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1860** | 25.0 | mg/kg | 05.07.2020 11:07 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.07.2020 13:38 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.07.2020 13:38 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.07.2020 13:38 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.07.2020 13:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 81 | % | 70-130 | 05.07.2020 13:38 | |
| o-Terphenyl | 84-15-1 | 83 | % | 70-130 | 05.07.2020 13:38 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-120 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-030 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 11:20 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 11:20 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 11:20 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.08.2020 11:20 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 11:20 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 11:20 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.08.2020 11:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 05.08.2020 11:20 | |
| 1,4-Difluorobenzene | 540-36-3 | 115 | % | 70-130 | 05.08.2020 11:20 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-122 (5')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-031 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: SPC Date Prep: 05.06.2020 13:30 Basis: Wet Weight

Seq Number: 3125310

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1010** | 4.97 | mg/kg | 05.07.2020 11:14 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.06.2020 13:00 Basis: Wet Weight

Seq Number: 3125389

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 14:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 14:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 14:15 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 14:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 79 | % | 70-130 | 05.07.2020 14:15 | |
| o-Terphenyl | 84-15-1 | 79 | % | 70-130 | 05.07.2020 14:15 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-122 (5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-031 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:41 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.08.2020 11:41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:41 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.08.2020 11:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 05.08.2020 11:41 | |
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 05.08.2020 11:41 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-127 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-032 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **67.0** | 4.95 | mg/kg | 05.07.2020 11:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 14:34 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 14:34 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 14:34 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 14:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-130 | 05.07.2020 14:34 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 05.07.2020 14:34 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-127 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-032 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.08.2020 12:01 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.08.2020 12:01 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.08.2020 12:01 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.08.2020 12:01 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.08.2020 12:01 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.08.2020 12:01 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.08.2020 12:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 05.08.2020 12:01 | |
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 05.08.2020 12:01 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-128 (6.5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-033 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **143** | 5.02 | mg/kg | 05.07.2020 11:28 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 14:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 14:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 14:53 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 14:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 76 | % | 70-130 | 05.07.2020 14:53 | |
| o-Terphenyl | 84-15-1 | 75 | % | 70-130 | 05.07.2020 14:53 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-128 (6.5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-033 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 12:22 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 12:22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 12:22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.08.2020 12:22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 12:22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 12:22 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.08.2020 12:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 05.08.2020 12:22 | |
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 05.08.2020 12:22 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-129 (6.5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-034 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **160** | 4.99 | mg/kg | 05.07.2020 11:34 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 15:12 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 15:12 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 15:12 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 15:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 05.07.2020 15:12 | |
| o-Terphenyl | 84-15-1 | 85 | % | 70-130 | 05.07.2020 15:12 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-129 (6.5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-034 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 12:42 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 12:42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 12:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.08.2020 12:42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 12:42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.08.2020 12:42 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.08.2020 12:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 05.08.2020 12:42 | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 05.08.2020 12:42 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-130 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-035 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **217** | 4.98 | mg/kg | 05.07.2020 11:41 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.07.2020 15:31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.07.2020 15:31 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.07.2020 15:31 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.07.2020 15:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-130 | 05.07.2020 15:31 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-130 | 05.07.2020 15:31 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-130 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-035 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 13:02 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 13:02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 13:02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.08.2020 13:02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 13:02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.08.2020 13:02 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.08.2020 13:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.08.2020 13:02 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.08.2020 13:02 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-136 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-036 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **211** | 4.99 | mg/kg | 05.07.2020 12:02 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 15:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 15:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 15:50 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 15:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 80 | % | 70-130 | 05.07.2020 15:50 | |
| o-Terphenyl | 84-15-1 | 82 | % | 70-130 | 05.07.2020 15:50 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-136 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-036 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125405 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 13:23 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 13:23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 13:23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.08.2020 13:23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 13:23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.08.2020 13:23 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.08.2020 13:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 05.08.2020 13:23 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.08.2020 13:23 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-135 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-037 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **32.8** | 25.1 | mg/kg | 05.07.2020 12:09 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 16:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 16:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 16:09 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 16:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 76 | % | 70-130 | 05.07.2020 16:09 | |
| o-Terphenyl | 84-15-1 | 77 | % | 70-130 | 05.07.2020 16:09 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-135 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-037 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 18:22 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 18:22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 18:22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 18:22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 18:22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 18:22 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 18:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 05.07.2020 18:22 | |
| 1,4-Difluorobenzene | 540-36-3 | 111 | % | 70-130 | 05.07.2020 18:22 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-141 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-038 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **22.2** | 4.96 | mg/kg | 05.07.2020 12:29 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 16:28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 16:28 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 16:28 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 16:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-130 | 05.07.2020 16:28 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-130 | 05.07.2020 16:28 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-141 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-038 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 18:43 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 18:43 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 18:43 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.07.2020 18:43 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 18:43 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 18:43 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.07.2020 18:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 05.07.2020 18:43 | |
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 05.07.2020 18:43 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-142 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-039 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **406** | 4.99 | mg/kg | 05.07.2020 12:36 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 16:48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 16:48 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 16:48 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 16:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 77 | % | 70-130 | 05.07.2020 16:48 | |
| o-Terphenyl | 84-15-1 | 79 | % | 70-130 | 05.07.2020 16:48 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-142 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-039 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 19:03 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 19:03 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 19:03 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 19:03 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 19:03 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 19:03 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 19:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.07.2020 19:03 | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 05.07.2020 19:03 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-143 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-040 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **837** | 5.04 | mg/kg | 05.07.2020 12:43 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.06.2020 13:00 | Basis: | Wet Weight |
| Seq Number: | 3125389 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 17:07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 17:07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 17:07 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 17:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 76 | % | 70-130 | 05.07.2020 17:07 | |
| o-Terphenyl | 84-15-1 | 78 | % | 70-130 | 05.07.2020 17:07 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-143 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-040 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 19:24 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 19:24 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 19:24 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.07.2020 19:24 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 19:24 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 19:24 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 19:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 05.07.2020 19:24 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.07.2020 19:24 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-149 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-041 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **86.5** | 4.97 | mg/kg | 05.07.2020 12:50 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 12:24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 12:24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 12:24 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 12:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-130 | 05.07.2020 12:24 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-130 | 05.07.2020 12:24 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-149 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-041 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 19:44 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 19:44 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 19:44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.07.2020 19:44 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 19:44 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 19:44 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.07.2020 19:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 05.07.2020 19:44 | |
| 1,4-Difluorobenzene | 540-36-3 | 114 | % | 70-130 | 05.07.2020 19:44 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-150 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-042 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.06.2020 13:30 | Basis: | Wet Weight |
| Seq Number: | 3125310 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **33.7** | 5.00 | mg/kg | 05.07.2020 12:57 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 13:28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 13:28 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 13:28 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 13:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-130 | 05.07.2020 13:28 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-130 | 05.07.2020 13:28 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-150 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-042 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:05 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:05 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:05 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.07.2020 20:05 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:05 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:05 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 114 | % | 70-130 | 05.07.2020 20:05 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 05.07.2020 20:05 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-144 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-043 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 13:45 | Basis: | Wet Weight |
| Seq Number: | 3125258 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **11.4** | 5.02 | mg/kg | 05.06.2020 19:00 | X | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 13:49 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 13:49 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 13:49 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 13:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 05.07.2020 13:49 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 05.07.2020 13:49 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-144 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-043 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 20:25 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 20:25 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 20:25 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.07.2020 20:25 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 20:25 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.07.2020 20:25 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.07.2020 20:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 05.07.2020 20:25 | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 05.07.2020 20:25 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-152 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-044 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 13:45 | Basis: | Wet Weight |
| Seq Number: | 3125258 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **398** | 4.97 | mg/kg | 05.06.2020 19:16 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 14:11 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 14:11 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 14:11 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 14:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-130 | 05.07.2020 14:11 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.07.2020 14:11 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-152 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-044 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:46 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:46 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:46 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.07.2020 20:46 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:46 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:46 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 20:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.07.2020 20:46 | |
| 1,4-Difluorobenzene | 540-36-3 | 114 | % | 70-130 | 05.07.2020 20:46 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-158 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-045 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 13:45 | Basis: | Wet Weight |
| Seq Number: | 3125258 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **89.2** | 4.98 | mg/kg | 05.06.2020 19:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 14:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 14:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 14:32 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 14:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-130 | 05.07.2020 14:32 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 05.07.2020 14:32 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-158 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-045 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:06 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:06 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:06 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 21:06 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:06 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:06 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 114 | % | 70-130 | 05.07.2020 21:06 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 05.07.2020 21:06 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-159 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-046 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 13:45 | Basis: | Wet Weight |
| Seq Number: | 3125258 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **37.9** | 5.00 | mg/kg | 05.06.2020 19:26 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 14:54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 14:54 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 14:54 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 14:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 05.07.2020 14:54 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-130 | 05.07.2020 14:54 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-159 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-046 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:27 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:27 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 21:27 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:27 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:27 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 21:27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 05.07.2020 21:27 | |
| 1,4-Difluorobenzene | 540-36-3 | 114 | % | 70-130 | 05.07.2020 21:27 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

Sample Id: **BH-160 (5.5')** Matrix: Soil Date Received:05.05.2020 15:00

Lab Sample Id: 660652-047 Date Collected: 05.01.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight

Seq Number: 3125258

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **49.1** | 4.98 | mg/kg | 05.06.2020 19:32 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.07.2020 08:00 Basis: Wet Weight

Seq Number: 3125395

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 15:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 15:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 15:15 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 15:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 05.07.2020 15:15 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 05.07.2020 15:15 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-160 (5.5')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-047 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 22:49 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 22:49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 22:49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.07.2020 22:49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 22:49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.07.2020 22:49 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.07.2020 22:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.07.2020 22:49 | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 05.07.2020 22:49 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-161 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-048 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 13:45 | Basis: | Wet Weight |
| Seq Number: | 3125258 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **71.2** | 25.0 | mg/kg | 05.06.2020 19:48 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.07.2020 15:37 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.07.2020 15:37 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.07.2020 15:37 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.07.2020 15:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 05.07.2020 15:37 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-130 | 05.07.2020 15:37 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH-161 (3')** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-048 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:10 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.07.2020 23:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:10 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 111 | % | 70-130 | 05.07.2020 23:10 | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 05.07.2020 23:10 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-6** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-049 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 13:45 | Basis: | Wet Weight |
| Seq Number: | 3125258 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **295** | 5.03 | mg/kg | 05.06.2020 19:53 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.07.2020 15:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.07.2020 15:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.07.2020 15:58 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.07.2020 15:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 05.07.2020 15:58 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-130 | 05.07.2020 15:58 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-6** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-049 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:30 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.07.2020 23:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:30 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.07.2020 23:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 05.07.2020 23:30 | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 05.07.2020 23:30 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-4** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-050 | Date Collected: | 05.01.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.06.2020 13:45 | Basis: | Wet Weight |
| Seq Number: | 3125258 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **184** | 5.05 | mg/kg | 05.06.2020 19:58 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.07.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3125395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.07.2020 16:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.07.2020 16:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.07.2020 16:19 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.07.2020 16:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 05.07.2020 16:19 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 05.07.2020 16:19 | |

# Certificate of Analytical Results 660652

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-4** | Matrix: | Soil | Date Received: | 05.05.2020 15:00 |
| Lab Sample Id: | 660652-050 | Date Collected: | 05.01.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.07.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3125402 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 23:51 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 23:51 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 23:51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.07.2020 23:51 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 23:51 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.07.2020 23:51 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.07.2020 23:51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 05.07.2020 23:51 | |
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 05.07.2020 23:51 | |

# 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. **ND** Not Detected.

**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

# QC Summary 660652



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125241 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702788-1-BLK — LCS Sample Id: 7702788-1-BKS — LCSD Sample Id: 7702788-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 243 | 97 | 246 | 98 | 90-110 | 1 | 20 | mg/kg | 05.06.2020 11:15 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125250 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702789-1-BLK — LCS Sample Id: 7702789-1-BKS — LCSD Sample Id: 7702789-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 268 | 107 | 268 | 107 | 90-110 | 0 | 20 | mg/kg | 05.06.2020 12:06 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125254 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702796-1-BLK — LCS Sample Id: 7702796-1-BKS — LCSD Sample Id: 7702796-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 232 | 93 | 236 | 94 | 90-110 | 2 | 20 | mg/kg | 05.06.2020 15:56 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125310 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702806-1-BLK — LCS Sample Id: 7702806-1-BKS — LCSD Sample Id: 7702806-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 259 | 104 | 259 | 104 | 90-110 | 0 | 20 | mg/kg | 05.07.2020 09:52 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125258 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702807-1-BLK — LCS Sample Id: 7702807-1-BKS — LCSD Sample Id: 7702807-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 245 | 98 | 242 | 97 | 90-110 | 1 | 20 | mg/kg | 05.06.2020 18:50 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3125241 — Matrix: Soil — Date Prep: 05.06.2020
Parent Sample Id: 660650-003 — MS Sample Id: 660650-003 S — MSD Sample Id: 660650-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 200 | 251 | 421 | 88 | 432 | 92 | 90-110 | 3 | 20 | mg/kg | 05.06.2020 11:42 | X |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result



Final 1.000

# QC Summary 660652



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125241 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660650-014 MS Sample Id: 660650-014 S MSD Sample Id: 660650-014 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 154 | 249 | 352 | 80 | 389 | 94 | 90-110 | 10 | 20 | mg/kg | 05.06.2020 12:56 | X |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125250 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660650-022 MS Sample Id: 660650-022 S MSD Sample Id: 660650-022 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 149 | 250 | 404 | 102 | 403 | 102 | 90-110 | 0 | 20 | mg/kg | 05.06.2020 12:26 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125250 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660652-011 MS Sample Id: 660652-011 S MSD Sample Id: 660652-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 167 | 251 | 431 | 105 | 429 | 104 | 90-110 | 0 | 20 | mg/kg | 05.06.2020 14:02 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125254 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660696-001 MS Sample Id: 660696-001 S MSD Sample Id: 660696-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 16.8 | 248 | 248 | 93 | 262 | 99 | 90-110 | 5 | 20 | mg/kg | 05.06.2020 16:12 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125254 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660696-011 MS Sample Id: 660696-011 S MSD Sample Id: 660696-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 12.3 | 250 | 241 | 91 | 240 | 91 | 90-110 | 0 | 20 | mg/kg | 05.06.2020 17:25 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125310 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660652-025 MS Sample Id: 660652-025 S MSD Sample Id: 660652-025 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 10.5 | 251 | 303 | 117 | 303 | 117 | 90-110 | 0 | 20 | mg/kg | 05.07.2020 10:12 | X |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 660652



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125310 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660652-035 MS Sample Id: 660652-035 S MSD Sample Id: 660652-035 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 217 | 249 | 460 | 98 | 457 | 96 | 90-110 | 1 | 20 | mg/kg | 05.07.2020 11:48 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125258 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660570-013 MS Sample Id: 660570-013 S MSD Sample Id: 660570-013 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 23.2 | 249 | 251 | 91 | 260 | 95 | 90-110 | 4 | 20 | mg/kg | 05.06.2020 20:19 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125258 Matrix: Soil Date Prep: 05.06.2020
Parent Sample Id: 660652-043 MS Sample Id: 660652-043 S MSD Sample Id: 660652-043 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 11.4 | 251 | 238 | 90 | 233 | 88 | 90-110 | 2 | 20 | mg/kg | 05.06.2020 19:05 | X |

**Analytical Method:** TPH By SW8015 Mod Prep Method: SW8015P
Seq Number: 3125263 Matrix: Solid Date Prep: 05.06.2020
MB Sample Id: 7702812-1-BLK LCS Sample Id: 7702812-1-BKS LCSD Sample Id: 7702812-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 878 | 88 | 833 | 83 | 70-130 | 5 | 20 | mg/kg | 05.06.2020 11:30 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 951 | 95 | 887 | 89 | 70-130 | 7 | 20 | mg/kg | 05.06.2020 11:30 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 87 | | 87 | | 81 | | 70-130 | % | 05.06.2020 11:30 |
| o-Terphenyl | 97 | | 77 | | 72 | | 70-130 | % | 05.06.2020 11:30 |

**Analytical Method:** TPH By SW8015 Mod Prep Method: SW8015P
Seq Number: 3125389 Matrix: Solid Date Prep: 05.06.2020
MB Sample Id: 7702814-1-BLK LCS Sample Id: 7702814-1-BKS LCSD Sample Id: 7702814-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 924 | 92 | 988 | 99 | 70-130 | 7 | 20 | mg/kg | 05.07.2020 08:19 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1040 | 104 | 1080 | 108 | 70-130 | 4 | 20 | mg/kg | 05.07.2020 08:19 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 84 | | 100 | | 108 | | 70-130 | % | 05.07.2020 08:19 |
| o-Terphenyl | 87 | | 90 | | 94 | | 70-130 | % | 05.07.2020 08:19 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 660652



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125395 — Matrix: Solid — Date Prep: 05.07.2020
MB Sample Id: 7702848-1-BLK — LCS Sample Id: 7702848-1-BKS — LCSD Sample Id: 7702848-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 968 | 97 | 904 | 90 | 70-130 | 7 | 20 | mg/kg | 05.07.2020 11:42 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 948 | 95 | 869 | 87 | 70-130 | 9 | 20 | mg/kg | 05.07.2020 11:42 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 95 | | 98 | | 90 | | 70-130 | % | 05.07.2020 11:42 |
| o-Terphenyl | 100 | | 97 | | 90 | | 70-130 | % | 05.07.2020 11:42 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125263 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702812-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.06.2020 11:09 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125389 — Matrix: Solid — Date Prep: 05.06.2020
MB Sample Id: 7702814-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.07.2020 07:41 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125395 — Matrix: Solid — Date Prep: 05.07.2020
MB Sample Id: 7702848-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.07.2020 11:21 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125263 — Matrix: Soil — Date Prep: 05.06.2020
Parent Sample Id: 660652-001 — MS Sample Id: 660652-001 S — MSD Sample Id: 660652-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 915 | 92 | 916 | 92 | 70-130 | 0 | 20 | mg/kg | 05.06.2020 12:35 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 1010 | 101 | 1050 | 105 | 70-130 | 4 | 20 | mg/kg | 05.06.2020 12:35 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 86 | | 87 | | 70-130 | % | 05.06.2020 12:35 |
| o-Terphenyl | 76 | | 77 | | 70-130 | % | 05.06.2020 12:35 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



Final 1.000

# QC Summary 660652



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125389 — Matrix: Soil — Date Prep: 05.06.2020
Parent Sample Id: 660652-021 — MS Sample Id: 660652-021 S — MSD Sample Id: 660652-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 956 | 96 | 837 | 84 | 70-130 | 13 | 20 | mg/kg | 05.07.2020 09:15 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 950 | 95 | 858 | 86 | 70-130 | 10 | 20 | mg/kg | 05.07.2020 09:15 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 110 | | 91 | | 70-130 | % | 05.07.2020 09:15 |
| o-Terphenyl | 97 | | 85 | | 70-130 | % | 05.07.2020 09:15 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125395 — Matrix: Soil — Date Prep: 05.07.2020
Parent Sample Id: 660652-041 — MS Sample Id: 660652-041 S — MSD Sample Id: 660652-041 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 998 | 961 | 96 | 820 | 82 | 70-130 | 16 | 20 | mg/kg | 05.07.2020 12:45 | |
| Diesel Range Organics (DRO) | <49.9 | 998 | 936 | 94 | 832 | 83 | 70-130 | 12 | 20 | mg/kg | 05.07.2020 12:45 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 115 | | 92 | | 70-130 | % | 05.07.2020 12:45 |
| o-Terphenyl | 112 | | 92 | | 70-130 | % | 05.07.2020 12:45 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125411 — Matrix: Solid — Date Prep: 05.07.2020
MB Sample Id: 7702947-1-BLK — LCS Sample Id: 7702947-1-BKS — LCSD Sample Id: 7702947-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0838 | 84 | 0.0842 | 84 | 70-130 | 0 | 35 | mg/kg | 05.07.2020 07:53 | |
| Toluene | <0.00200 | 0.100 | 0.0901 | 90 | 0.0918 | 92 | 70-130 | 2 | 35 | mg/kg | 05.07.2020 07:53 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0956 | 96 | 0.0975 | 98 | 70-130 | 2 | 35 | mg/kg | 05.07.2020 07:53 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.194 | 97 | 0.197 | 99 | 70-130 | 2 | 35 | mg/kg | 05.07.2020 07:53 | |
| o-Xylene | <0.00200 | 0.100 | 0.0985 | 99 | 0.101 | 101 | 70-130 | 3 | 35 | mg/kg | 05.07.2020 07:53 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 98 | | 123 | | 129 | | 70-130 | % | 05.07.2020 07:53 |
| 4-Bromofluorobenzene | 110 | | 195 | ** | 198 | ** | 70-130 | % | 05.07.2020 07:53 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 660652



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125402 — Matrix: Solid — Date Prep: 05.07.2020
MB Sample Id: 7702945-1-BLK — LCS Sample Id: 7702945-1-BKS — LCSD Sample Id: 7702945-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0942 | 94 | 0.0886 | 89 | 70-130 | 6 | 35 | mg/kg | 05.07.2020 16:00 | |
| Toluene | <0.00200 | 0.100 | 0.0884 | 88 | 0.0822 | 82 | 70-130 | 7 | 35 | mg/kg | 05.07.2020 16:00 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0888 | 89 | 0.0823 | 82 | 70-130 | 8 | 35 | mg/kg | 05.07.2020 16:00 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.173 | 87 | 0.159 | 80 | 70-130 | 8 | 35 | mg/kg | 05.07.2020 16:00 | |
| o-Xylene | <0.00200 | 0.100 | 0.0893 | 89 | 0.0826 | 83 | 70-130 | 8 | 35 | mg/kg | 05.07.2020 16:00 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 105 | | 103 | | 104 | | 70-130 | % | 05.07.2020 16:00 |
| 4-Bromofluorobenzene | 90 | | 97 | | 94 | | 70-130 | % | 05.07.2020 16:00 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125405 — Matrix: Solid — Date Prep: 05.07.2020
MB Sample Id: 7702946-1-BLK — LCS Sample Id: 7702946-1-BKS — LCSD Sample Id: 7702946-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0924 | 92 | 0.0802 | 80 | 70-130 | 14 | 35 | mg/kg | 05.08.2020 14:02 | |
| Toluene | <0.00200 | 0.100 | 0.0931 | 93 | 0.0767 | 77 | 70-130 | 19 | 35 | mg/kg | 05.08.2020 14:02 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0991 | 99 | 0.0760 | 76 | 70-130 | 26 | 35 | mg/kg | 05.08.2020 14:02 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.193 | 97 | 0.147 | 74 | 70-130 | 27 | 35 | mg/kg | 05.08.2020 14:02 | |
| o-Xylene | <0.00200 | 0.100 | 0.100 | 100 | 0.0782 | 78 | 70-130 | 24 | 35 | mg/kg | 05.08.2020 14:02 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 103 | | 101 | | 103 | | 70-130 | % | 05.08.2020 14:02 |
| 4-Bromofluorobenzene | 95 | | 105 | | 98 | | 70-130 | % | 05.08.2020 14:02 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125496 — Matrix: Solid — Date Prep: 05.08.2020
MB Sample Id: 7703002-1-BLK — LCS Sample Id: 7703002-1-BKS — LCSD Sample Id: 7703002-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0852 | 85 | 0.0812 | 81 | 70-130 | 5 | 35 | mg/kg | 05.08.2020 14:43 | |
| Toluene | <0.00200 | 0.100 | 0.0853 | 85 | 0.0813 | 81 | 70-130 | 5 | 35 | mg/kg | 05.08.2020 14:43 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0900 | 90 | 0.0848 | 85 | 70-130 | 6 | 35 | mg/kg | 05.08.2020 14:43 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.175 | 88 | 0.164 | 82 | 70-130 | 6 | 35 | mg/kg | 05.08.2020 14:43 | |
| o-Xylene | <0.00200 | 0.100 | 0.0910 | 91 | 0.0855 | 86 | 70-130 | 6 | 35 | mg/kg | 05.08.2020 14:43 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 103 | | 102 | | 102 | | 70-130 | % | 05.08.2020 14:43 |
| 4-Bromofluorobenzene | 95 | | 103 | | 99 | | 70-130 | % | 05.08.2020 14:43 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result



Final 1.000

# QC Summary 660652



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125411 — Matrix: Soil — Date Prep: 05.07.2020
Parent Sample Id: 660652-001 — MS Sample Id: 660652-001 S — MSD Sample Id: 660652-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | 0.0992 | 0.0950 | 96 | 0.118 | 118 | 70-130 | 22 | 35 | mg/kg | 05.07.2020 08:33 | |
| Toluene | <0.00198 | 0.0992 | 0.107 | 108 | 0.119 | 119 | 70-130 | 11 | 35 | mg/kg | 05.07.2020 08:33 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.115 | 116 | 0.125 | 125 | 70-130 | 8 | 35 | mg/kg | 05.07.2020 08:33 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.235 | 119 | 0.251 | 126 | 70-130 | 7 | 35 | mg/kg | 05.07.2020 08:33 | |
| o-Xylene | <0.00198 | 0.0992 | 0.120 | 121 | 0.127 | 127 | 70-130 | 6 | 35 | mg/kg | 05.07.2020 08:33 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 140 | ** | 132 | ** | 70-130 | % | 05.07.2020 08:33 |
| 4-Bromofluorobenzene | 228 | ** | 207 | ** | 70-130 | % | 05.07.2020 08:33 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125402 — Matrix: Soil — Date Prep: 05.07.2020
Parent Sample Id: 660652-037 — MS Sample Id: 660652-037 S — MSD Sample Id: 660652-037 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0994 | 0.0874 | 88 | 0.0874 | 87 | 70-130 | 0 | 35 | mg/kg | 05.07.2020 16:41 | |
| Toluene | <0.00199 | 0.0994 | 0.0803 | 81 | 0.0793 | 79 | 70-130 | 1 | 35 | mg/kg | 05.07.2020 16:41 | |
| Ethylbenzene | <0.00199 | 0.0994 | 0.0794 | 80 | 0.0779 | 77 | 70-130 | 2 | 35 | mg/kg | 05.07.2020 16:41 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.154 | 77 | 0.150 | 74 | 70-130 | 3 | 35 | mg/kg | 05.07.2020 16:41 | |
| o-Xylene | <0.00199 | 0.0994 | 0.0808 | 81 | 0.0782 | 77 | 70-130 | 3 | 35 | mg/kg | 05.07.2020 16:41 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 106 | | 107 | | 70-130 | % | 05.07.2020 16:41 |
| 4-Bromofluorobenzene | 101 | | 97 | | 70-130 | % | 05.07.2020 16:41 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125405 — Matrix: Soil — Date Prep: 05.07.2020
Parent Sample Id: 660652-021 — MS Sample Id: 660652-021 S — MSD Sample Id: 660652-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0996 | 0.0506 | 51 | 0.0697 | 70 | 70-130 | 32 | 35 | mg/kg | 05.08.2020 03:35 | X |
| Toluene | <0.00199 | 0.0996 | 0.0512 | 51 | 0.0671 | 67 | 70-130 | 27 | 35 | mg/kg | 05.08.2020 03:35 | X |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0527 | 53 | 0.0674 | 67 | 70-130 | 24 | 35 | mg/kg | 05.08.2020 03:35 | X |
| m,p-Xylenes | <0.00398 | 0.199 | 0.105 | 53 | 0.131 | 66 | 70-130 | 22 | 35 | mg/kg | 05.08.2020 03:35 | X |
| o-Xylene | <0.00199 | 0.0996 | 0.0577 | 58 | 0.0699 | 70 | 70-130 | 19 | 35 | mg/kg | 05.08.2020 03:35 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 104 | | 103 | | 70-130 | % | 05.08.2020 03:35 |
| 4-Bromofluorobenzene | 111 | | 104 | | 70-130 | % | 05.08.2020 03:35 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



Final 1.000

# QC Summary 660652



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3125496 Matrix: Soil Date Prep: 05.08.2020

Parent Sample Id: 660426-024 MS Sample Id: 660426-024 S MSD Sample Id: 660426-024 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.0998 | 0.0912 | 91 | 0.0858 | 85 | 70-130 | 6 | 35 | mg/kg | 05.08.2020 15:24 | |
| Toluene | <0.00200 | 0.0998 | 0.0899 | 90 | 0.0825 | 82 | 70-130 | 9 | 35 | mg/kg | 05.08.2020 15:24 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0952 | 95 | 0.0859 | 85 | 70-130 | 10 | 35 | mg/kg | 05.08.2020 15:24 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.186 | 93 | 0.167 | 83 | 70-130 | 11 | 35 | mg/kg | 05.08.2020 15:24 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0956 | 96 | 0.0864 | 86 | 70-130 | 10 | 35 | mg/kg | 05.08.2020 15:24 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 103 | | 70-130 | % | 05.08.2020 15:24 |
| 4-Bromofluorobenzene | 104 | | 99 | | 70-130 | % | 05.08.2020 15:24 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Received by OCD: 6/29/2021 10:26:12 AM Page 166 of 1291

Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 West Wall, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

10/06/20 S2

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Ratllesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Nick T |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-71 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-72 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-73 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-74 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-75 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-78 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-79 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-82 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-83 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-84 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 5/5/2020 | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Received by: Date: 5/6/20 Time: 1500

**LAB USE ONLY**

Sample Temperature 1.3 1.0 -0.3 09

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Received by OCD: 6/29/2021 10:26:12 AM Page 167 of 1291

Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 West Wall, Suite 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

1RP-0652

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Ratllesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Nick T |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-89 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-90 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-91 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-93 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-95 (5.5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-98 (5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-96 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-97 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-103 (5.5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-105 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 5/5/2020 | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Received by: Date: 5/5/20 Time: 1500

Received by: Date: Time:

Received by: Date: Time:

**LAB USE ONLY**

Sample Temperature 1.3 | 1.0

**REMARKS:**

- ☐ STANDARD
- ☐ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 West Wall, Suite 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

1RP-1052

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Ratllesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Nick T |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-106 (5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-107 (5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-108 (5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-111 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-112 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-113 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-114 (5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-115 (5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-119 (5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH-120 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 5/5/2020 | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Received by: Date: 5/5/20 Time: 1500

**LAB USE ONLY**

Sample Temperature 1.3|1.0

**REMARKS:**

- ☐ STANDARD
- ☐ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 West Wall, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Lab# 680682

| | |
|---|---|
| Client Name: EOG | Site Manager: Mike Carmona |
| Project Name: Ratllesnake Reuse Pit | |
| Project Location: (county, state) Lea County, New Mexico | Project #: 212C-MD-01974 |
| Invoice to: Todd Wells | |
| Receiving Laboratory: Xenco | Sampler Signature: Nick T |
| Comments: | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | TIME | MATRIX WATER | SOIL | | PRESERVATIVE METHOD HCL | $HNO_3$ | ICE | None | | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-122 (5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-127 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-128 (6.5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-129 (6.5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-130 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-136 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-135 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-141 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-142 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-143 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-149 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-150 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 5/5/2020 | Time: | Received by: Date: 5/5/20 Time: 1500 |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |

**LAB USE ONLY**
Sample Temperature 1-3 | 1.0

**REMARKS:**
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 West Wall, Suite 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Lab 1652

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Ratllesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Nick T |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | BTEX 8260B | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-144 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-152 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-158 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-159 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-160 (5.5') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | X | | | | | | | | | | | | | X | | | | | | | |
| | BH-161 (3') | 5/1/2020 | | | X | | | | X | | | 1 | N | X | X | | | | | | | | | | | | | X | | | | | | | |
| | NSW-6 | 5/1/2020 | | | X | | | | X | | | 1 | N | X | X | | | | | | | | | | | | | X | | | | | | | |
| | ESW-4 | 5/1/2020 | | | X | | | | X | | | 1 | N | X | X | | | | | | | | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

BTEX 8260B (Geo-Dro-ORO)
TPH 8015M

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 5/5/2020 | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Received by: Date: 5/5/20 Time: 15W

**LAB USE ONLY**
Sample Temperature: 1.3/1.0

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 05.05.2020 03.00.00 PM

**Work Order #:** 660652

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : R9**

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | 1 | |
| #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** | BTEX was in bulk container |
| #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)? | **N/A** | |
| #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:** Brianna Teel Date: 05.06.2020
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 05.06.2020
Jessica Kramer

# Certificate of Analysis Summary 661169

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattle snake reuse pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 05.11.2020 12:51
**Report Date:** 05.13.2020 08:13
**Project Manager:** Jessica Kramer

| Analysis Requested | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Lab Id: | 661169-001 | | 661169-002 | | 661169-003 | | 661169-004 | | 661169-005 | | 661169-006 | |
| | Field Id: | Bottom Hole #176 (2'BEB | | Bottom Hole #177 (2'BEB | | Bottom Hole #178 (2.5'BE | | Bottom Hole #181 (2'BEB | | Bottom Hole #184 (2'BEB | | Bottom Hole #185 (2'BEB | |
| | Depth: | 2- ft | | 2- ft | | 2.5- ft | | 2- ft | | 2- ft | | 2- ft | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | 05.11.2020 00:00 | | 05.11.2020 00:00 | | 05.11.2020 00:00 | | 05.11.2020 00:00 | | 05.11.2020 00:00 | | 05.11.2020 00:00 | |
| **BTEX by EPA 8021B** | Extracted: | 05.11.2020 15:00 | | 05.11.2020 15:00 | | 05.11.2020 15:00 | | 05.11.2020 15:00 | | ** ** ** ** | | ** ** ** ** | |
| | Analyzed: | 05.12.2020 00:23 | | 05.12.2020 00:44 | | 05.12.2020 01:06 | | 05.12.2020 01:27 | | 05.12.2020 01:49 | | 05.12.2020 02:10 | |
| | 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 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00402 | 0.00402 | <0.00403 | 0.00403 | <0.00402 | 0.00402 | <0.00404 | 0.00404 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | Extracted: | 05.11.2020 16:00 | | 05.11.2020 16:00 | | 05.11.2020 16:00 | | 05.11.2020 16:00 | | 05.11.2020 16:00 | | 05.11.2020 16:00 | |
| | Analyzed: | 05.11.2020 18:59 | | 05.11.2020 19:05 | | 05.11.2020 19:11 | | 05.11.2020 19:16 | | 05.11.2020 19:22 | | 05.11.2020 19:28 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 120 | 10.0 | 32.9 | 10.1 | 53.1 | 9.96 | 72.4 | 10.1 | 148 | 10.1 | 100 | 10.1 |
| **TPH By SW8015 Mod** | Extracted: | 05.11.2020 17:00 | | 05.11.2020 17:00 | | 05.11.2020 17:00 | | 05.11.2020 17:00 | | 05.11.2020 17:00 | | 05.11.2020 17:00 | |
| | Analyzed: | 05.12.2020 12:27 | | 05.11.2020 22:18 | | 05.11.2020 22:38 | | 05.11.2020 22:59 | | 05.11.2020 23:19 | | 05.11.2020 23:39 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.2 | 50.2 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 | <50.2 | 50.2 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.2 | 50.2 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 | <50.2 | 50.2 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.2 | 50.2 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 | <50.2 | 50.2 | <49.9 | 49.9 |
| Total TPH | | <50.2 | 50.2 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 | <50.2 | 50.2 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 661169

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattle snake reuse pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 05.11.2020 12:51
**Report Date:** 05.13.2020 08:13
**Project Manager:** Jessica Kramer

| Analysis Requested | | 661169-007 | | 661169-008 | | 661169-009 | | 661169-010 | | 661169-011 | | 661169-012 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Id: | 3ottom Hole # 186 (2'BEB | | Bottom Hole #192 (2'BEB | | Bottom Hole #194 (2'BEB | | Bottom Hole #196 (2'BEB | | Bottom Hole #197 (2'BEB | | Bottom Hole #201 (2.5'BE | |
| | Depth: | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2.5- ft | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | 05.11.2020 00:00 | | 05.11.2020 00:00 | | 05.11.2020 00:00 | | 05.11.2020 00:00 | | 05.11.2020 00:00 | | 05.11.2020 00:00 | |
| **BTEX by EPA 8021B** | Extracted: | 05.11.2020 17:00 | | 05.11.2020 17:00 | | 05.11.2020 17:00 | | 05.11.2020 17:00 | | 05.11.2020 17:00 | | 05.11.2020 17:00 | |
| | Analyzed: | 05.12.2020 00:37 | | 05.12.2020 01:39 | | 05.12.2020 01:59 | | 05.12.2020 02:19 | | 05.12.2020 02:40 | | 05.12.2020 03:00 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| Toluene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00404 | 0.00404 | <0.00404 | 0.00404 | <0.00401 | 0.00401 | <0.00397 | 0.00397 | <0.00404 | 0.00404 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | Extracted: | 05.11.2020 17:02 | | 05.11.2020 17:02 | | 05.11.2020 17:02 | | 05.11.2020 17:02 | | 05.11.2020 17:02 | | 05.11.2020 17:02 | |
| | Analyzed: | 05.11.2020 20:03 | | 05.11.2020 20:21 | | 05.11.2020 20:27 | | 05.11.2020 20:33 | | 05.11.2020 20:39 | | 05.11.2020 20:56 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 47.9 | 9.98 | 35.1 | 9.92 | 171 | 9.98 | 85.7 | 10.0 | 57.7 | 10.0 | 317 | 10.1 |
| **TPH By SW8015 Mod** | Extracted: | 05.11.2020 17:00 | | 05.11.2020 17:30 | | 05.11.2020 17:30 | | 05.11.2020 17:30 | | 05.11.2020 17:30 | | 05.11.2020 17:30 | |
| | Analyzed: | 05.12.2020 00:00 | | 05.12.2020 02:22 | | 05.12.2020 03:23 | | 05.12.2020 03:43 | | 05.12.2020 04:03 | | 05.12.2020 04:24 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 |
| Total TPH | | <50.0 | 50.0 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 | <49.8 | 49.8 | <50.1 | 50.1 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 661169

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattle snake reuse pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 05.11.2020 12:51
**Report Date:** 05.13.2020 08:13
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 661169-013 | | 661169-014 | | 661169-015 | | | | | |
| | ***Field Id:*** | Bottom Hole #133 (2.5'BE | | Bottom Hole #134 (2.5'BE | | Bottom Hole #152 (2.5'BE | | | | | |
| | ***Depth:*** | 2.5- ft | | 2.5- ft | | 2.5- ft | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | 05.11.2020 00:00 | | 05.11.2020 00:00 | | 05.11.2020 00:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.11.2020 17:00 | | 05.11.2020 17:00 | | 05.11.2020 17:00 | | | | | |
| | ***Analyzed:*** | 05.12.2020 03:21 | | 05.12.2020 03:41 | | 05.12.2020 04:42 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| Toluene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | | | | |
| o-Xylene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| Total BTEX | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.11.2020 17:02 | | 05.11.2020 17:02 | | 05.11.2020 17:02 | | | | | |
| | ***Analyzed:*** | 05.11.2020 21:02 | | 05.11.2020 21:08 | | 05.11.2020 21:14 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 32.1 | 9.98 | <9.94 | 9.94 | 46.3 | 9.88 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.11.2020 17:30 | | 05.11.2020 17:30 | | 05.11.2020 17:30 | | | | | |
| | ***Analyzed:*** | 05.12.2020 04:44 | | 05.12.2020 05:05 | | 05.12.2020 05:25 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.1 | 50.1 | <50.3 | 50.3 | <50.1 | 50.1 | | | | |
| Diesel Range Organics (DRO) | | <50.1 | 50.1 | <50.3 | 50.3 | <50.1 | 50.1 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.1 | 50.1 | <50.3 | 50.3 | <50.1 | 50.1 | | | | |
| Total TPH | | <50.1 | 50.1 | <50.3 | 50.3 | <50.1 | 50.1 | | | | |

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Jessica Kramer
Project Manager

# Analytical Report 661169

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**Rattle snake reuse pit**

**212C-MD-01974**

**05.13.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.13.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **661169**
**Rattle snake reuse pit**
Project Address: Lea Co, NM

**Mike Carmona**:

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) 661169. 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. 661169 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

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# Sample Cross Reference 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| Bottom Hole #176 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-001 |
| Bottom Hole #177 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-002 |
| Bottom Hole #178 (2.5'BEB) | S | 05.11.2020 00:00 | 2.5 ft | 661169-003 |
| Bottom Hole #181 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-004 |
| Bottom Hole #184 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-005 |
| Bottom Hole #185 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-006 |
| Bottom Hole # 186 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-007 |
| Bottom Hole #192 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-008 |
| Bottom Hole #194 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-009 |
| Bottom Hole #196 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-010 |
| Bottom Hole #197 (2'BEB) | S | 05.11.2020 00:00 | 2 ft | 661169-011 |
| Bottom Hole #201 (2.5'BEB) | S | 05.11.2020 00:00 | 2.5 ft | 661169-012 |
| Bottom Hole #133 (2.5'BEB) | S | 05.11.2020 00:00 | 2.5 ft | 661169-013 |
| Bottom Hole #134 (2.5'BEB) | S | 05.11.2020 00:00 | 2.5 ft | 661169-014 |
| Bottom Hole #152 (2.5'BEB) | S | 05.11.2020 00:00 | 2.5 ft | 661169-015 |

# CASE NARRATIVE

***Client Name: Tetra Tech- Midland***

***Project Name: Rattle snake reuse pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *661169*

Report Date: *05.13.2020*
Date Received: *05.11.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #176 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-001 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3125633 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **120** | 10.0 | mg/kg | 05.11.2020 18:59 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125657 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 05.12.2020 12:27 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 05.12.2020 12:27 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 05.12.2020 12:27 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 05.12.2020 12:27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-135 | 05.12.2020 12:27 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-135 | 05.12.2020 12:27 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #176 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-001 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3125630 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 00:23 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 00:23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 00:23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.12.2020 00:23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 00:23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 00:23 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.12.2020 00:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.12.2020 00:23 | |
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 05.12.2020 00:23 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #177 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-002 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3125633 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **32.9** | 10.1 | mg/kg | 05.11.2020 19:05 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125657 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 05.11.2020 22:18 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 05.11.2020 22:18 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 05.11.2020 22:18 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 05.11.2020 22:18 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-135 | 05.11.2020 22:18 | |
| o-Terphenyl | 84-15-1 | 108 | % | 70-135 | 05.11.2020 22:18 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #177 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-002 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3125630 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 00:44 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 00:44 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 00:44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.12.2020 00:44 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 00:44 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 00:44 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.12.2020 00:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.12.2020 00:44 | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.12.2020 00:44 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #178 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-003 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3125633 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **53.1** | 9.96 | mg/kg | 05.11.2020 19:11 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125657 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.11.2020 22:38 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.11.2020 22:38 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.11.2020 22:38 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.11.2020 22:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 112 | % | 70-135 | 05.11.2020 22:38 | |
| o-Terphenyl | 84-15-1 | 122 | % | 70-135 | 05.11.2020 22:38 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #178 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-003 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3125630 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:06 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:06 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:06 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.12.2020 01:06 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:06 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:06 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 05.12.2020 01:06 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.12.2020 01:06 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #181 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-004 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3125633 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **72.4** | 10.1 | mg/kg | 05.11.2020 19:16 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125657 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 05.11.2020 22:59 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 05.11.2020 22:59 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 05.11.2020 22:59 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 05.11.2020 22:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 122 | % | 70-135 | 05.11.2020 22:59 | |
| o-Terphenyl | 84-15-1 | 134 | % | 70-135 | 05.11.2020 22:59 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #181 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-004 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3125630 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 01:27 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 01:27 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 01:27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.12.2020 01:27 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 01:27 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.12.2020 01:27 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.12.2020 01:27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.12.2020 01:27 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.12.2020 01:27 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #184 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-005 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3125633 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **148** | 10.1 | mg/kg | 05.11.2020 19:22 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125657 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 05.11.2020 23:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 05.11.2020 23:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 05.11.2020 23:19 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 05.11.2020 23:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 119 | % | 70-135 | 05.11.2020 23:19 | |
| o-Terphenyl | 84-15-1 | 122 | % | 70-135 | 05.11.2020 23:19 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #184 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-005 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3125630 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:49 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 05.12.2020 01:49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:49 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.12.2020 01:49 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 05.12.2020 01:49 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #185 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-006 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3125633 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **100** | 10.1 | mg/kg | 05.11.2020 19:28 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125657 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.11.2020 23:39 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.11.2020 23:39 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.11.2020 23:39 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.11.2020 23:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 125 | % | 70-135 | 05.11.2020 23:39 | |
| o-Terphenyl | 84-15-1 | 131 | % | 70-135 | 05.11.2020 23:39 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #185 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-006 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3125630 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 02:10 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 02:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 02:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.12.2020 02:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 02:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 02:10 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.12.2020 02:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 05.12.2020 02:10 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.12.2020 02:10 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole # 186 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-007 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:02 | Basis: | Wet Weight |
| Seq Number: | 3125634 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **47.9** | 9.98 | mg/kg | 05.11.2020 20:03 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125657 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.12.2020 00:00 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.12.2020 00:00 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.12.2020 00:00 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.12.2020 00:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-135 | 05.12.2020 00:00 | |
| o-Terphenyl | 84-15-1 | 122 | % | 70-135 | 05.12.2020 00:00 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole # 186 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-007 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125629 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 00:37 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 00:37 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 00:37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 05.12.2020 00:37 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 00:37 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 00:37 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.12.2020 00:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.12.2020 00:37 | |
| 4-Bromofluorobenzene | 460-00-4 | 95 | % | 70-130 | 05.12.2020 00:37 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #192 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-008 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:02 | Basis: | Wet Weight |
| Seq Number: | 3125634 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **35.1** | 9.92 | mg/kg | 05.11.2020 20:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3125703 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 05.12.2020 02:22 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 05.12.2020 02:22 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 05.12.2020 02:22 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 05.12.2020 02:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 05.12.2020 02:22 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-135 | 05.12.2020 02:22 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #192 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-008 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125629 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:39 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 05.12.2020 01:39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:39 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.12.2020 01:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.12.2020 01:39 | |
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 05.12.2020 01:39 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #194 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-009 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:02 | Basis: | Wet Weight |
| Seq Number: | 3125634 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **171** | 9.98 | mg/kg | 05.11.2020 20:27 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3125703 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.12.2020 03:23 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.12.2020 03:23 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.12.2020 03:23 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.12.2020 03:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-135 | 05.12.2020 03:23 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-135 | 05.12.2020 03:23 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #194 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-009 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125629 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 01:59 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 01:59 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 01:59 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.12.2020 01:59 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 01:59 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 01:59 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.12.2020 01:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 05.12.2020 01:59 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 05.12.2020 01:59 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #196 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-010 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:02 | Basis: | Wet Weight |
| Seq Number: | 3125634 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **85.7** | 10.0 | mg/kg | 05.11.2020 20:33 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3125703 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 05.12.2020 03:43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 05.12.2020 03:43 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 05.12.2020 03:43 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 05.12.2020 03:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-135 | 05.12.2020 03:43 | |
| o-Terphenyl | 84-15-1 | 82 | % | 70-135 | 05.12.2020 03:43 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #196 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-010 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125629 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.12.2020 02:19 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.12.2020 02:19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.12.2020 02:19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.12.2020 02:19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.12.2020 02:19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.12.2020 02:19 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.12.2020 02:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.12.2020 02:19 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 05.12.2020 02:19 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #197 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-011 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:02 | Basis: | Wet Weight |
| Seq Number: | 3125634 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **57.7** | 10.0 | mg/kg | 05.11.2020 20:39 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3125703 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.12.2020 04:03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.12.2020 04:03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.12.2020 04:03 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.12.2020 04:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-135 | 05.12.2020 04:03 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 05.12.2020 04:03 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #197 (2'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-011 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125629 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 02:40 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 02:40 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 02:40 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 05.12.2020 02:40 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 02:40 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.12.2020 02:40 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.12.2020 02:40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 05.12.2020 02:40 | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 05.12.2020 02:40 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #201 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-012 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:02 | Basis: | Wet Weight |
| Seq Number: | 3125634 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **317** | 10.1 | mg/kg | 05.11.2020 20:56 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3125703 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 05.12.2020 04:24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 05.12.2020 04:24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 05.12.2020 04:24 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 05.12.2020 04:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 05.12.2020 04:24 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-135 | 05.12.2020 04:24 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #201 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-012 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125629 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 03:00 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 03:00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 03:00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.12.2020 03:00 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 03:00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 03:00 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.12.2020 03:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 05.12.2020 03:00 | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 05.12.2020 03:00 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #133 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-013 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:02 | Basis: | Wet Weight |
| Seq Number: | 3125634 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **32.1** | 9.98 | mg/kg | 05.11.2020 21:02 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3125703 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 05.12.2020 04:44 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 05.12.2020 04:44 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 05.12.2020 04:44 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 05.12.2020 04:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-135 | 05.12.2020 04:44 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-135 | 05.12.2020 04:44 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #133 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-013 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125629 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:21 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:21 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:21 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.12.2020 03:21 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:21 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:21 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 05.12.2020 03:21 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 05.12.2020 03:21 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #134 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-014 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:02 | Basis: | Wet Weight |
| Seq Number: | 3125634 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <9.94 | 9.94 | mg/kg | 05.11.2020 21:08 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3125703 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | mg/kg | 05.12.2020 05:05 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.3 | 50.3 | mg/kg | 05.12.2020 05:05 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.3 | 50.3 | mg/kg | 05.12.2020 05:05 | U | 1 |
| Total TPH | PHC635 | <50.3 | 50.3 | mg/kg | 05.12.2020 05:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 05.12.2020 05:05 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-135 | 05.12.2020 05:05 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #134 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-014 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125629 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:41 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.12.2020 03:41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:41 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.12.2020 03:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.12.2020 03:41 | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 05.12.2020 03:41 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #152 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-015 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:02 | Basis: | Wet Weight |
| Seq Number: | 3125634 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **46.3** | 9.88 | mg/kg | 05.11.2020 21:14 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 05.11.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3125703 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 05.12.2020 05:25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 05.12.2020 05:25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 05.12.2020 05:25 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 05.12.2020 05:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 05.12.2020 05:25 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-135 | 05.12.2020 05:25 | |

# Certificate of Analytical Results 661169

## Tetra Tech- Midland, Midland, TX

Rattle snake reuse pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #152 (2.5'BEB)** | Matrix: | Soil | Date Received: | 05.11.2020 12:51 |
| Lab Sample Id: | 661169-015 | Date Collected: | 05.11.2020 00:00 | Sample Depth: | 2.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 05.11.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3125629 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 04:42 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 04:42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 04:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.12.2020 04:42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 04:42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.12.2020 04:42 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.12.2020 04:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 05.12.2020 04:42 | |
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.12.2020 04:42 | |

# 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. **ND** Not Detected.

**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

# QC Summary 661169



## Tetra Tech- Midland

Rattle snake reuse pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125633 Matrix: Solid Date Prep: 05.11.2020
MB Sample Id: 7703126-1-BLK LCS Sample Id: 7703126-1-BKS LCSD Sample Id: 7703126-1-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 | 249 | 100 | 249 | 100 | 90-110 | 0 | 20 | mg/kg | 05.11.2020 16:38 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125634 Matrix: Solid Date Prep: 05.11.2020
MB Sample Id: 7703128-1-BLK LCS Sample Id: 7703128-1-BKS LCSD Sample Id: 7703128-1-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 | 249 | 100 | 249 | 100 | 90-110 | 0 | 20 | mg/kg | 05.11.2020 19:52 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125633 Matrix: Soil Date Prep: 05.11.2020
Parent Sample Id: 661166-001 MS Sample Id: 661166-001 S MSD Sample Id: 661166-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 2780 | 101 | 2880 | 99 | 2890 | 109 | 90-110 | 0 | 20 | mg/kg | 05.11.2020 16:55 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125633 Matrix: Soil Date Prep: 05.11.2020
Parent Sample Id: 661166-011 MS Sample Id: 661166-011 S MSD Sample Id: 661166-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 140 | 200 | 343 | 102 | 344 | 102 | 90-110 | 0 | 20 | mg/kg | 05.11.2020 18:18 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125634 Matrix: Soil Date Prep: 05.11.2020
Parent Sample Id: 661169-007 MS Sample Id: 661169-007 S MSD Sample Id: 661169-007 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 47.9 | 200 | 232 | 92 | 232 | 92 | 90-110 | 0 | 20 | mg/kg | 05.11.2020 20:09 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3125634 Matrix: Soil Date Prep: 05.11.2020
Parent Sample Id: 661183-002 MS Sample Id: 661183-002 S MSD Sample Id: 661183-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 147 | 203 | 326 | 88 | 325 | 88 | 90-110 | 0 | 20 | mg/kg | 05.11.2020 21:31 | X |

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

# QC Summary 661169



## Tetra Tech- Midland

Rattle snake reuse pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125657 — Matrix: Solid — Date Prep: 05.11.2020
MB Sample Id: 7703145-1-BLK — LCS Sample Id: 7703145-1-BKS — LCSD Sample Id: 7703145-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 979 | 98 | 858 | 85 | 70-135 | 13 | 35 | mg/kg | 05.12.2020 10:23 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1140 | 114 | 983 | 97 | 70-135 | 15 | 35 | mg/kg | 05.12.2020 10:23 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 101 | | 117 | | 103 | | 70-135 | % | 05.12.2020 10:23 |
| o-Terphenyl | 108 | | 113 | | 102 | | 70-135 | % | 05.12.2020 10:23 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125703 — Matrix: Solid — Date Prep: 05.11.2020
MB Sample Id: 7703169-1-BLK — LCS Sample Id: 7703169-1-BKS — LCSD Sample Id: 7703169-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 871 | 87 | 804 | 80 | 70-135 | 8 | 35 | mg/kg | 05.12.2020 11:45 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 978 | 98 | 895 | 90 | 70-135 | 9 | 35 | mg/kg | 05.12.2020 11:45 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 90 | | 104 | | 97 | | 70-135 | % | 05.12.2020 11:45 |
| o-Terphenyl | 97 | | 98 | | 93 | | 70-135 | % | 05.12.2020 11:45 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125657 — Matrix: Solid — Date Prep: 05.11.2020
MB Sample Id: 7703145-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.11.2020 13:13 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125703 — Matrix: Solid — Date Prep: 05.11.2020
MB Sample Id: 7703169-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.11.2020 11:52 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 661169



## Tetra Tech- Midland

Rattle snake reuse pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125657 — Matrix: Soil — Date Prep: 05.11.2020
Parent Sample Id: 661166-001 — MS Sample Id: 661166-001 S — MSD Sample Id: 661166-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 1050 | 105 | 1010 | 102 | 70-135 | 4 | 35 | mg/kg | 05.11.2020 16:11 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 1210 | 121 | 1160 | 117 | 70-135 | 4 | 35 | mg/kg | 05.11.2020 16:11 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 119 | | 123 | | 70-135 | % | 05.11.2020 16:11 |
| o-Terphenyl | 124 | | 118 | | 70-135 | % | 05.11.2020 16:11 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125703 — Matrix: Soil — Date Prep: 05.11.2020
Parent Sample Id: 661169-008 — MS Sample Id: 661169-008 S — MSD Sample Id: 661169-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.2 | 1000 | 957 | 96 | 965 | 97 | 70-135 | 1 | 35 | mg/kg | 05.12.2020 02:42 | |
| Diesel Range Organics (DRO) | <50.2 | 1000 | 1110 | 111 | 1080 | 108 | 70-135 | 3 | 35 | mg/kg | 05.12.2020 02:42 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 113 | | 116 | | 70-135 | % | 05.12.2020 02:42 |
| o-Terphenyl | 113 | | 105 | | 70-135 | % | 05.12.2020 02:42 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125630 — Matrix: Solid — Date Prep: 05.11.2020
MB Sample Id: 7703123-1-BLK — LCS Sample Id: 7703123-1-BKS — LCSD Sample Id: 7703123-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.127 | 127 | 0.119 | 119 | 70-130 | 7 | 35 | mg/kg | 05.11.2020 16:33 | |
| Toluene | <0.00200 | 0.100 | 0.117 | 117 | 0.109 | 109 | 70-130 | 7 | 35 | mg/kg | 05.11.2020 16:33 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.110 | 110 | 0.103 | 103 | 71-129 | 7 | 35 | mg/kg | 05.11.2020 16:33 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.214 | 107 | 0.199 | 100 | 70-135 | 7 | 35 | mg/kg | 05.11.2020 16:33 | |
| o-Xylene | <0.00200 | 0.100 | 0.109 | 109 | 0.102 | 102 | 71-133 | 7 | 35 | mg/kg | 05.11.2020 16:33 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 113 | | 108 | | 107 | | 70-130 | % | 05.11.2020 16:33 |
| 4-Bromofluorobenzene | 104 | | 100 | | 98 | | 70-130 | % | 05.11.2020 16:33 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result



Final 1.000

# QC Summary 661169



## Tetra Tech- Midland

Rattle snake reuse pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125629 — Matrix: Solid — Date Prep: 05.11.2020
MB Sample Id: 7703122-1-BLK — LCS Sample Id: 7703122-1-BKS — LCSD Sample Id: 7703122-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.111 | 111 | 0.108 | 108 | 70-130 | 3 | 35 | mg/kg | 05.11.2020 22:55 | |
| Toluene | <0.00200 | 0.100 | 0.107 | 107 | 0.104 | 104 | 70-130 | 3 | 35 | mg/kg | 05.11.2020 22:55 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.100 | 100 | 0.0976 | 98 | 71-129 | 2 | 35 | mg/kg | 05.11.2020 22:55 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.205 | 103 | 0.201 | 101 | 70-135 | 2 | 35 | mg/kg | 05.11.2020 22:55 | |
| o-Xylene | <0.00200 | 0.100 | 0.104 | 104 | 0.102 | 102 | 71-133 | 2 | 35 | mg/kg | 05.11.2020 22:55 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 105 | | 102 | | 104 | | 70-130 | % | 05.11.2020 22:55 |
| 4-Bromofluorobenzene | 95 | | 91 | | 95 | | 70-130 | % | 05.11.2020 22:55 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125630 — Matrix: Soil — Date Prep: 05.11.2020
Parent Sample Id: 661166-001 — MS Sample Id: 661166-001 S — MSD Sample Id: 661166-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.127 | 127 | 0.123 | 123 | 70-130 | 3 | 35 | mg/kg | 05.11.2020 17:37 | |
| Toluene | <0.00200 | 0.100 | 0.116 | 116 | 0.112 | 112 | 70-130 | 4 | 35 | mg/kg | 05.11.2020 17:37 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.108 | 108 | 0.102 | 102 | 71-129 | 6 | 35 | mg/kg | 05.11.2020 17:37 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.208 | 104 | 0.195 | 98 | 70-135 | 6 | 35 | mg/kg | 05.11.2020 17:37 | |
| o-Xylene | <0.00200 | 0.100 | 0.105 | 105 | 0.0993 | 99 | 71-133 | 6 | 35 | mg/kg | 05.11.2020 17:37 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 109 | | 107 | | 70-130 | % | 05.11.2020 17:37 |
| 4-Bromofluorobenzene | 103 | | 101 | | 70-130 | % | 05.11.2020 17:37 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3125629 — Matrix: Soil — Date Prep: 05.11.2020
Parent Sample Id: 661169-007 — MS Sample Id: 661169-007 S — MSD Sample Id: 661169-007 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.0998 | 0.0854 | 86 | 0.107 | 106 | 70-130 | 22 | 35 | mg/kg | 05.11.2020 23:36 | |
| Toluene | <0.00200 | 0.0998 | 0.0824 | 83 | 0.101 | 100 | 70-130 | 20 | 35 | mg/kg | 05.11.2020 23:36 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0730 | 73 | 0.0895 | 89 | 71-129 | 20 | 35 | mg/kg | 05.11.2020 23:36 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.149 | 75 | 0.182 | 90 | 70-135 | 20 | 35 | mg/kg | 05.11.2020 23:36 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0778 | 78 | 0.0959 | 95 | 71-133 | 21 | 35 | mg/kg | 05.11.2020 23:36 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 103 | | 104 | | 70-130 | % | 05.11.2020 23:36 |
| 4-Bromofluorobenzene | 95 | | 94 | | 70-130 | % | 05.11.2020 23:36 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Analysis Request of Chain of Custody Record

Lab# 11169

Page 1 of 2

# Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmon

Project Name: Rattle snake reuse pit

Project Location: (county, state) Lea Co, Nm

Project #: 212C-MD-01974

Invoice to: Todd Wells

Receiving Laboratory: Xenco

Sampler Signature: Justin Flores

Comments:

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | # CONTAINERS | FILTERED (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Hole #176 (2' BEB) | 5/11/2020 | | | X | | | X | | | |
| | Bottom Hole #177 (2' BEB) | 5/11/2020 | | | X | | | X | | | |
| | Bottom Hole #178 (2.5' BEB) | 5/11/2020 | | | X | | | X | | | |
| | Bottom Hole #181 (2' BEB) | 5/11/2020 | | | X | | | X | | | |
| | Bottom Hole #184 (2' BEB) | 5/11/2020 | | | X | | | X | | | |
| | Bottom Hole #185 (2' BEB) | 5/11/2020 | | | X | | | X | | | |
| | Bottom Hole #186 (2' BEB) | 5/11/2020 | | | X | | | X | | | |
| | Bottom Hole # 192 (2' BEB) | 5/11/2020 | | | X | | | X | | | |
| | ~~Bottom Hole # 193 (2' BEB)~~ JF 5.11.20 | ~~5/11/2020~~ | | | ~~X~~ | | | ~~X~~ | | | |
| | Bottom Hole # 194 (2' BEB) | 5/11/2020 | | | X | | | X | | | |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| ~~X~~ | | ~~X~~ | | | | | | | | | | | | ~~X~~ | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |

Relinquished by: Justin Flores Date: 5.11.20 Time: 12:51

Received by: Date: 5/11/20 Time: 12:51

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 3.5

REMARKS:

- ☐ STANDARD
- ☐ RUSH: Same Day 24 hr 48 hr X72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Page 2 of 2

# Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmon

Project Name: Rattle snake reuse pit

Project Location: (county, state) Lea Co, Nm

Project #: 212C-MD-01974

Invoice to: Todd Wells

Receiving Laboratory: Xenco

Sampler Signature: Justin Flores

Comments:

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Hole #196 (2' BEB) | 5/11/2020 | | | X | | | | X | | | | |
| | Bottom Hole #197 (2' BEB) | 5/11/2020 | | | X | | | | X | | | | |
| | Bottom Hole # 201 (2.5' BEB) | 5/11/2020 | | | X | | | | X | | | | |
| | Bottom Hole #133 (2.5' BEB) | 5/11/2020 | | | X | | | | X | | | | |
| | Bottom Hole #134 (2.5' BEB) | 5/11/2020 | | | X | | | | X | | | | |
| | Bottom Hole #152 (2.5' BEB) | 5/11/2020 | | | X | | | | X | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | | |

Relinquished by: Justin Flores — Date: 5.11.20 — Time: 12:51

Received by: — Date: 5/11/20 — Time: 12:51

Relinquished by: — Date: — Time:

Received by: — Date: — Time:

Relinquished by: — Date: — Time:

Received by: — Date: — Time:

LAB USE ONLY

Sample Temperature: 3.5

REMARKS:

- ☐ STANDARD
- ☐ RUSH: Same Day 24 hr 48 hr X72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Page 44 of 45
Final 1.000
Released to Imaging: 7/15/2021 9:51:59 AM

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 05.11.2020 12.51.00 PM

**Work Order #:** 661169

**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)? | 3.5 | |
| #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** | Samples received in bulk containers. |
| #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: 05.11.2020

**Checklist reviewed by:** Jessica Kramer Date: 05.12.2020

Jessica Kramer

# Certificate of Analysis Summary 661817

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co. NM

**Date Received in Lab:** Mon 05.18.2020 09:10
**Report Date:** 05.20.2020 08:09
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 661817-001 | | 661817-002 | | 661817-003 | | 661817-004 | | 661817-005 | | 661817-006 | |
| | ***Field Id:*** | BH 71 (3.5') | | BH 72 (3.5') | | BH 90 (3.5') | | BH 97 (3.5') | | BH 107 (5.5') | | BH 115 (5.5') | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.18.2020 17:00 | | 05.18.2020 17:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | |
| | ***Analyzed:*** | 05.18.2020 20:33 | | 05.18.2020 20:53 | | 05.19.2020 06:48 | | 05.19.2020 07:08 | | 05.19.2020 07:29 | | 05.19.2020 07:49 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Toluene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00396 | 0.00396 | <0.00402 | 0.00402 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.18.2020 11:25 | | 05.18.2020 11:25 | | 05.18.2020 11:25 | | 05.18.2020 11:25 | | 05.18.2020 11:25 | | 05.18.2020 11:25 | |
| | ***Analyzed:*** | 05.18.2020 12:49 | | 05.18.2020 12:55 | | 05.18.2020 13:01 | | 05.18.2020 13:06 | | 05.18.2020 13:12 | | 05.18.2020 13:29 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 238 | 4.95 | 118 | 4.97 | 238 | 5.04 | 405 | 4.98 | 120 | 4.95 | 23.4 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | |
| | ***Analyzed:*** | 05.18.2020 12:53 | | 05.18.2020 13:58 | | 05.18.2020 14:20 | | 05.18.2020 14:41 | | 05.18.2020 15:03 | | 05.18.2020 15:25 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |

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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 Manager

# Certificate of Analysis Summary 661817

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co. NM

**Date Received in Lab:** Mon 05.18.2020 09:10
**Report Date:** 05.20.2020 08:09
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 661817-007 | | 661817-008 | | 661817-009 | | 661817-010 | | 661817-011 | | 661817-012 | |
| | ***Field Id:*** | BH 119 (5.5') | | BH 120 (3.5') | | BH 122 (5.5') | | BH 143 (3.5') | | BH 170 (2.5') | | ESW-1 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | |
| | ***Analyzed:*** | 05.19.2020 08:09 | | 05.19.2020 08:29 | | 05.19.2020 08:49 | | 05.19.2020 09:09 | | 05.19.2020 09:29 | | 05.19.2020 09:50 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00396 | 0.00396 | <0.00403 | 0.00403 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.18.2020 11:25 | | 05.18.2020 11:25 | | 05.18.2020 11:25 | | 05.18.2020 11:25 | | 05.18.2020 11:25 | | 05.18.2020 11:25 | |
| | ***Analyzed:*** | 05.18.2020 13:35 | | 05.18.2020 13:52 | | 05.18.2020 13:58 | | 05.18.2020 14:04 | | 05.18.2020 14:09 | | 05.18.2020 14:15 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 23.8 | 4.99 | 108 | 4.98 | 269 | 5.04 | 249 | 5.00 | 233 | 4.96 | 419 | 4.99 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | |
| | ***Analyzed:*** | 05.18.2020 15:46 | | 05.18.2020 16:08 | | 05.18.2020 16:30 | | 05.18.2020 16:52 | | 05.18.2020 17:35 | | 05.18.2020 17:57 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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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 Manager

# Certificate of Analysis Summary 661817

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co. NM

**Date Received in Lab:** Mon 05.18.2020 09:10
**Report Date:** 05.20.2020 08:09
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 661817-013 | | 661817-014 | | 661817-015 | | 661817-016 | | 661817-017 | | 661817-018 | |
| | ***Field Id:*** | ESW-3 | | SSW-1 | | SWW-3 | | WSW-1 | | WSW-2 | | NSW-5 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | |
| | ***Analyzed:*** | 05.19.2020 11:11 | | 05.19.2020 11:31 | | 05.19.2020 11:51 | | 05.19.2020 12:12 | | 05.19.2020 12:32 | | 05.19.2020 12:52 | |
| | ***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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Toluene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00396 | 0.00396 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.18.2020 11:25 | | 05.18.2020 11:25 | | 05.18.2020 11:40 | | 05.18.2020 11:40 | | 05.18.2020 11:40 | | 05.18.2020 11:40 | |
| | ***Analyzed:*** | 05.18.2020 14:21 | | 05.18.2020 14:26 | | 05.18.2020 15:01 | | 05.18.2020 15:18 | | 05.18.2020 15:24 | | 05.18.2020 15:29 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 199 | 5.00 | 143 | 5.04 | 78.5 | 4.96 | 76.8 | 5.00 | 223 | 4.99 | 290 | 5.04 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | |
| | ***Analyzed:*** | 05.18.2020 18:19 | | 05.18.2020 18:41 | | 05.18.2020 19:02 | | 05.18.2020 19:24 | | 05.18.2020 19:46 | | 05.18.2020 20:07 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 661817

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co. NM

**Date Received in Lab:** Mon 05.18.2020 09:10
**Report Date:** 05.20.2020 08:09
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 661817-019 | | 661817-020 | | 661817-021 | | 661817-022 | | 661817-023 | | 661817-024 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | NSW-7 | | ESW-6 | | WSW-4 | | WSW-5 | | WSW-7 | | SSW-6 | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | | 05.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | 05.18.2020 10:00 | | ** ** ** ** | | ** ** ** ** | |
| | *Analyzed:* | 05.19.2020 13:12 | | 05.19.2020 13:32 | | 05.19.2020 13:52 | | 05.19.2020 14:13 | | 05.18.2020 21:49 | | 05.18.2020 22:09 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00401 | 0.00401 | <0.00402 | 0.00402 | <0.00403 | 0.00403 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 05.18.2020 11:40 | | 05.18.2020 11:40 | | 05.18.2020 11:40 | | 05.18.2020 11:40 | | 05.18.2020 11:40 | | 05.18.2020 11:40 | |
| | *Analyzed:* | 05.18.2020 15:35 | | 05.18.2020 15:52 | | 05.18.2020 15:58 | | 05.18.2020 16:04 | | 05.18.2020 16:10 | | 05.18.2020 16:15 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 21.2 | 4.97 | 214 | 4.99 | 302 | 4.96 | 300 | 5.00 | 116 | 5.00 | 348 | 4.98 |
| **TPH By SW8015 Mod** | *Extracted:* | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | | 05.18.2020 11:00 | |
| | *Analyzed:* | 05.18.2020 20:29 | | 05.18.2020 20:50 | | 05.18.2020 12:53 | | 05.18.2020 13:58 | | 05.18.2020 14:20 | | 05.18.2020 14:41 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 661817

## Tetra Tech- Midland, Midland, TX

### Project Name: Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co. NM

**Date Received in Lab:** Mon 05.18.2020 09:10
**Report Date:** 05.20.2020 08:09
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | |
|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 661817-025 | | | | | |
| | ***Field Id:*** | NSW-9 | | | | | |
| | ***Depth:*** | | | | | | |
| | ***Matrix:*** | SOIL | | | | | |
| | ***Sampled:*** | 05.12.2020 00:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | ** ** ** ** | | | | | |
| | ***Analyzed:*** | 05.18.2020 22:29 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Benzene | | <0.00200 | 0.00200 | | | | |
| Toluene | | <0.00200 | 0.00200 | | | | |
| Ethylbenzene | | <0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | <0.00400 | 0.00400 | | | | |
| o-Xylene | | <0.00200 | 0.00200 | | | | |
| Total Xylenes | | <0.00200 | 0.00200 | | | | |
| Total BTEX | | <0.00200 | 0.00200 | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.18.2020 11:40 | | | | | |
| | ***Analyzed:*** | 05.18.2020 16:21 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Chloride | | 275 | 5.05 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.18.2020 11:00 | | | | | |
| | ***Analyzed:*** | 05.18.2020 15:03 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | | | | |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | | | | |
| Total TPH | | <49.8 | 49.8 | | | | |

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Jessica Kramer
Project Manager

# Analytical Report 661817

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**Rattlesnake Reuse Pit**

**212C-MD-01974**

**05.20.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.20.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **661817**
**Rattlesnake Reuse Pit**
Project Address: Lea Co. NM

**Mike Carmona**:

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) 661817. 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. 661817 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

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# Sample Cross Reference 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| BH 71 (3.5') | S | 05.12.2020 00:00 | | 661817-001 |
| BH 72 (3.5') | S | 05.12.2020 00:00 | | 661817-002 |
| BH 90 (3.5') | S | 05.12.2020 00:00 | | 661817-003 |
| BH 97 (3.5') | S | 05.12.2020 00:00 | | 661817-004 |
| BH 107 (5.5') | S | 05.12.2020 00:00 | | 661817-005 |
| BH 115 (5.5') | S | 05.12.2020 00:00 | | 661817-006 |
| BH 119 (5.5') | S | 05.12.2020 00:00 | | 661817-007 |
| BH 120 (3.5') | S | 05.12.2020 00:00 | | 661817-008 |
| BH 122 (5.5') | S | 05.12.2020 00:00 | | 661817-009 |
| BH 143 (3.5') | S | 05.12.2020 00:00 | | 661817-010 |
| BH 170 (2.5') | S | 05.12.2020 00:00 | | 661817-011 |
| ESW-1 | S | 05.12.2020 00:00 | | 661817-012 |
| ESW-3 | S | 05.12.2020 00:00 | | 661817-013 |
| SSW-1 | S | 05.12.2020 00:00 | | 661817-014 |
| SWW-3 | S | 05.12.2020 00:00 | | 661817-015 |
| WSW-1 | S | 05.12.2020 00:00 | | 661817-016 |
| WSW-2 | S | 05.12.2020 00:00 | | 661817-017 |
| NSW-5 | S | 05.12.2020 00:00 | | 661817-018 |
| NSW-7 | S | 05.12.2020 00:00 | | 661817-019 |
| ESW-6 | S | 05.12.2020 00:00 | | 661817-020 |
| WSW-4 | S | 05.12.2020 00:00 | | 661817-021 |
| WSW-5 | S | 05.12.2020 00:00 | | 661817-022 |
| WSW-7 | S | 05.12.2020 00:00 | | 661817-023 |
| SSW-6 | S | 05.12.2020 00:00 | | 661817-024 |
| NSW-9 | S | 05.12.2020 00:00 | | 661817-025 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *661817*

Report Date: *05.20.2020*
Date Received: *05.18.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3126361 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7703609-1-BLK.

Batch: LBA-3126399 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7703620-1-BLK.

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 71 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-001 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **238** | 4.95 | mg/kg | 05.18.2020 12:49 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.18.2020 12:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.18.2020 12:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.18.2020 12:53 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.18.2020 12:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 05.18.2020 12:53 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-130 | 05.18.2020 12:53 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 71 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-001 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126326 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.18.2020 20:33 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.18.2020 20:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.18.2020 20:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.18.2020 20:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.18.2020 20:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.18.2020 20:33 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.18.2020 20:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 05.18.2020 20:33 | |
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 05.18.2020 20:33 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 72 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-002 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **118** | 4.97 | mg/kg | 05.18.2020 12:55 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.18.2020 13:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.18.2020 13:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.18.2020 13:58 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.18.2020 13:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 05.18.2020 13:58 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 05.18.2020 13:58 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 72 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-002 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126326 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.18.2020 20:53 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.18.2020 20:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.18.2020 20:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.18.2020 20:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.18.2020 20:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.18.2020 20:53 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.18.2020 20:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 114 | % | 70-130 | 05.18.2020 20:53 | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.18.2020 20:53 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 90 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-003 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **238** | 5.04 | mg/kg | 05.18.2020 13:01 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 14:20 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 14:20 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 14:20 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 14:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 05.18.2020 14:20 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 05.18.2020 14:20 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 90 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-003 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 06:48 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 06:48 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 06:48 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.19.2020 06:48 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 06:48 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 06:48 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.19.2020 06:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 05.19.2020 06:48 | |
| 4-Bromofluorobenzene | 460-00-4 | 92 | % | 70-130 | 05.19.2020 06:48 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 97 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-004 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **405** | 4.98 | mg/kg | 05.18.2020 13:06 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.18.2020 14:41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.18.2020 14:41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.18.2020 14:41 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.18.2020 14:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 05.18.2020 14:41 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 05.18.2020 14:41 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 97 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-004 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 07:08 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 07:08 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 07:08 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.19.2020 07:08 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 07:08 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 07:08 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.19.2020 07:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 05.19.2020 07:08 | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 05.19.2020 07:08 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 107 (5.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-005 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **120** | 4.95 | mg/kg | 05.18.2020 13:12 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 15:03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 15:03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 15:03 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 15:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 05.18.2020 15:03 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.18.2020 15:03 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 107 (5.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-005 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 07:29 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 07:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 07:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.19.2020 07:29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 07:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 07:29 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.19.2020 07:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 05.19.2020 07:29 | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 05.19.2020 07:29 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 115 (5.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-006 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **23.4** | 4.95 | mg/kg | 05.18.2020 13:29 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 15:25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 15:25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 15:25 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 15:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 05.18.2020 15:25 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-130 | 05.18.2020 15:25 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 115 (5.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-006 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 07:49 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 07:49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 07:49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.19.2020 07:49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 07:49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 07:49 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.19.2020 07:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 05.19.2020 07:49 | |
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.19.2020 07:49 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 119 (5.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-007 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **23.8** | 4.99 | mg/kg | 05.18.2020 13:35 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.18.2020 15:46 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.18.2020 15:46 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.18.2020 15:46 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.18.2020 15:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 05.18.2020 15:46 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 05.18.2020 15:46 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 119 (5.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-007 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 08:09 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 08:09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 08:09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.19.2020 08:09 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 08:09 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 08:09 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.19.2020 08:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 05.19.2020 08:09 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 05.19.2020 08:09 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 120 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-008 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **108** | 4.98 | mg/kg | 05.18.2020 13:52 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 16:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 16:08 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 16:08 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 16:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 111 | % | 70-130 | 05.18.2020 16:08 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 05.18.2020 16:08 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 120 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-008 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 08:29 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 08:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 08:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.19.2020 08:29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 08:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 08:29 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.19.2020 08:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 05.19.2020 08:29 | |
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 05.19.2020 08:29 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 122 (5.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-009 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **269** | 5.04 | mg/kg | 05.18.2020 13:58 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.18.2020 16:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.18.2020 16:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.18.2020 16:30 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.18.2020 16:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 05.18.2020 16:30 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-130 | 05.18.2020 16:30 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 122 (5.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-009 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.19.2020 08:49 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.19.2020 08:49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.19.2020 08:49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.19.2020 08:49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.19.2020 08:49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.19.2020 08:49 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.19.2020 08:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.19.2020 08:49 | |
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 05.19.2020 08:49 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 143 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-010 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **249** | 5.00 | mg/kg | 05.18.2020 14:04 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.18.2020 16:52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.18.2020 16:52 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.18.2020 16:52 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.18.2020 16:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.18.2020 16:52 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-130 | 05.18.2020 16:52 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 143 (3.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-010 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 09:09 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 09:09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 09:09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.19.2020 09:09 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 09:09 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 09:09 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.19.2020 09:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 128 | % | 70-130 | 05.19.2020 09:09 | |
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 05.19.2020 09:09 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 170 (2.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-011 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **233** | 4.96 | mg/kg | 05.18.2020 14:09 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 17:35 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 17:35 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 17:35 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 17:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 05.18.2020 17:35 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 05.18.2020 17:35 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH 170 (2.5')** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-011 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 09:29 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 09:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 09:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.19.2020 09:29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 09:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 09:29 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.19.2020 09:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 05.19.2020 09:29 | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 05.19.2020 09:29 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-1** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-012 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **419** | 4.99 | mg/kg | 05.18.2020 14:15 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.18.2020 17:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.18.2020 17:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.18.2020 17:57 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.18.2020 17:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 05.18.2020 17:57 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 05.18.2020 17:57 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-1** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-012 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 09:50 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 09:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 09:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.19.2020 09:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 09:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 09:50 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.19.2020 09:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 05.19.2020 09:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.19.2020 09:50 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-3** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-013 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **199** | 5.00 | mg/kg | 05.18.2020 14:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 18:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 18:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 18:19 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 18:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 05.18.2020 18:19 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.18.2020 18:19 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-3** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-013 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 11:11 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 11:11 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 11:11 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.19.2020 11:11 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 11:11 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 11:11 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.19.2020 11:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 85 | % | 70-130 | 05.19.2020 11:11 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 05.19.2020 11:11 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SSW-1** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-014 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:25 | Basis: | Wet Weight |
| Seq Number: | 3126355 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **143** | 5.04 | mg/kg | 05.18.2020 14:26 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 18:41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 18:41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 18:41 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 18:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 05.18.2020 18:41 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.18.2020 18:41 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SSW-1** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-014 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 11:31 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 11:31 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 11:31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.19.2020 11:31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 11:31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 11:31 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.19.2020 11:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 05.19.2020 11:31 | |
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 05.19.2020 11:31 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SWW-3** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-015 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **78.5** | 4.96 | mg/kg | 05.18.2020 15:01 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 19:02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 19:02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 19:02 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 19:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.18.2020 19:02 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 05.18.2020 19:02 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SWW-3** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-015 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 11:51 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 11:51 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 11:51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.19.2020 11:51 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 11:51 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 11:51 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.19.2020 11:51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 05.19.2020 11:51 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 05.19.2020 11:51 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-1** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-016 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **76.8** | 5.00 | mg/kg | 05.18.2020 15:18 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.18.2020 19:24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.18.2020 19:24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.18.2020 19:24 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.18.2020 19:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 05.18.2020 19:24 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.18.2020 19:24 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-1** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-016 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 12:12 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 12:12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 12:12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.19.2020 12:12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 12:12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 12:12 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.19.2020 12:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 05.19.2020 12:12 | |
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 05.19.2020 12:12 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-2** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-017 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **223** | 4.99 | mg/kg | 05.18.2020 15:24 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 19:46 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 19:46 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 19:46 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 19:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 05.18.2020 19:46 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.18.2020 19:46 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-2** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-017 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 12:32 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 12:32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 12:32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.19.2020 12:32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 12:32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 12:32 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.19.2020 12:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 05.19.2020 12:32 | |
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 05.19.2020 12:32 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-5** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-018 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **290** | 5.04 | mg/kg | 05.18.2020 15:29 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 20:07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 20:07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 20:07 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 20:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 05.18.2020 20:07 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.18.2020 20:07 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-5** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-018 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 12:52 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 12:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 12:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.19.2020 12:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 12:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.19.2020 12:52 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.19.2020 12:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 05.19.2020 12:52 | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 05.19.2020 12:52 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-7** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-019 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **21.2** | 4.97 | mg/kg | 05.18.2020 15:35 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.18.2020 20:29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.18.2020 20:29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.18.2020 20:29 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.18.2020 20:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 05.18.2020 20:29 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.18.2020 20:29 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-7** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-019 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 13:12 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 13:12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 13:12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.19.2020 13:12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 13:12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.19.2020 13:12 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.19.2020 13:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 05.19.2020 13:12 | |
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 05.19.2020 13:12 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-6** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-020 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **214** | 4.99 | mg/kg | 05.18.2020 15:52 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126344 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.18.2020 20:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.18.2020 20:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.18.2020 20:50 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.18.2020 20:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 05.18.2020 20:50 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.18.2020 20:50 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **ESW-6** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-020 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:32 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.19.2020 13:32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:32 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 05.19.2020 13:32 | |
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 05.19.2020 13:32 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-4** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-021 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **302** | 4.96 | mg/kg | 05.18.2020 15:58 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126341 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.18.2020 12:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.18.2020 12:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.18.2020 12:53 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.18.2020 12:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-130 | 05.18.2020 12:53 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.18.2020 12:53 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-4** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-021 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:52 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.19.2020 13:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:52 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.19.2020 13:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 05.19.2020 13:52 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 05.19.2020 13:52 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-5** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-022 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **300** | 5.00 | mg/kg | 05.18.2020 16:04 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126341 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 13:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 13:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 13:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 13:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-130 | 05.18.2020 13:58 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.18.2020 13:58 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-5** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-022 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3126399 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 14:13 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 14:13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 14:13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.19.2020 14:13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 14:13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.19.2020 14:13 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.19.2020 14:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 05.19.2020 14:13 | |
| 4-Bromofluorobenzene | 460-00-4 | 84 | % | 70-130 | 05.19.2020 14:13 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-7** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-023 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **116** | 5.00 | mg/kg | 05.18.2020 16:10 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126341 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.18.2020 14:20 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.18.2020 14:20 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.18.2020 14:20 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.18.2020 14:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 05.18.2020 14:20 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 05.18.2020 14:20 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WSW-7** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-023 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3126361 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.18.2020 21:49 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.18.2020 21:49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.18.2020 21:49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.18.2020 21:49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.18.2020 21:49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.18.2020 21:49 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.18.2020 21:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 05.18.2020 21:49 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 05.18.2020 21:49 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SSW-6** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-024 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **348** | 4.98 | mg/kg | 05.18.2020 16:15 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126341 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.18.2020 14:41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.18.2020 14:41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.18.2020 14:41 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.18.2020 14:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 05.18.2020 14:41 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.18.2020 14:41 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SSW-6** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-024 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3126361 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:09 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.18.2020 22:09 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:09 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:09 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 05.18.2020 22:09 | |
| 4-Bromofluorobenzene | 460-00-4 | 91 | % | 70-130 | 05.18.2020 22:09 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-9** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-025 | Date Collected: | 05.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.18.2020 11:40 | Basis: | Wet Weight |
| Seq Number: | 3126358 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **275** | 5.05 | mg/kg | 05.18.2020 16:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.18.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126341 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.18.2020 15:03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.18.2020 15:03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.18.2020 15:03 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.18.2020 15:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-130 | 05.18.2020 15:03 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 05.18.2020 15:03 | |

# Certificate of Analytical Results 661817

## Tetra Tech- Midland, Midland, TX

Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NSW-9** | Matrix: | Soil | Date Received: | 05.18.2020 09:10 |
| Lab Sample Id: | 661817-025 | Date Collected: | 05.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 05.18.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3126361 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:29 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 05.18.2020 22:29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:29 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.18.2020 22:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 72 | % | 70-130 | 05.18.2020 22:29 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.18.2020 22:29 | |

# 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. **ND** Not Detected.

**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

# QC Summary 661817



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126355 Matrix: Solid Date Prep: 05.18.2020
MB Sample Id: 7703502-1-BLK LCS Sample Id: 7703502-1-BKS LCSD Sample Id: 7703502-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 246 | 98 | 239 | 96 | 90-110 | 3 | 20 | mg/kg | 05.18.2020 11:41 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126358 Matrix: Solid Date Prep: 05.18.2020
MB Sample Id: 7703503-1-BLK LCS Sample Id: 7703503-1-BKS LCSD Sample Id: 7703503-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 247 | 99 | 245 | 98 | 90-110 | 1 | 20 | mg/kg | 05.18.2020 14:49 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126355 Matrix: Soil Date Prep: 05.18.2020
Parent Sample Id: 661705-035 MS Sample Id: 661705-035 S MSD Sample Id: 661705-035 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 131 | 253 | 378 | 98 | 388 | 102 | 90-110 | 3 | 20 | mg/kg | 05.18.2020 11:58 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126355 Matrix: Soil Date Prep: 05.18.2020
Parent Sample Id: 661817-005 MS Sample Id: 661817-005 S MSD Sample Id: 661817-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 120 | 248 | 359 | 96 | 346 | 91 | 90-110 | 4 | 20 | mg/kg | 05.18.2020 13:18 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126358 Matrix: Soil Date Prep: 05.18.2020
Parent Sample Id: 661817-015 MS Sample Id: 661817-015 S MSD Sample Id: 661817-015 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 78.5 | 248 | 314 | 95 | 318 | 97 | 90-110 | 1 | 20 | mg/kg | 05.18.2020 15:07 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126358 Matrix: Soil Date Prep: 05.18.2020
Parent Sample Id: 661817-025 MS Sample Id: 661817-025 S MSD Sample Id: 661817-025 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 275 | 253 | 515 | 95 | 518 | 96 | 90-110 | 1 | 20 | mg/kg | 05.18.2020 16:27 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 661817



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126341 — Matrix: Solid — Date Prep: 05.18.2020
MB Sample Id: 7703507-1-BLK — LCS Sample Id: 7703507-1-BKS — LCSD Sample Id: 7703507-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 865 | 87 | 966 | 97 | 70-130 | 11 | 20 | mg/kg | 05.18.2020 12:11 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 847 | 85 | 973 | 97 | 70-130 | 14 | 20 | mg/kg | 05.18.2020 12:11 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 87 | | 84 | | 96 | | 70-130 | % | 05.18.2020 12:11 |
| o-Terphenyl | 94 | | 84 | | 97 | | 70-130 | % | 05.18.2020 12:11 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126344 — Matrix: Solid — Date Prep: 05.18.2020
MB Sample Id: 7703506-1-BLK — LCS Sample Id: 7703506-1-BKS — LCSD Sample Id: 7703506-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 911 | 91 | 910 | 91 | 70-130 | 0 | 20 | mg/kg | 05.18.2020 12:11 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 944 | 94 | 942 | 94 | 70-130 | 0 | 20 | mg/kg | 05.18.2020 12:11 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 100 | | 116 | | 114 | | 70-130 | % | 05.18.2020 12:11 |
| o-Terphenyl | 103 | | 110 | | 105 | | 70-130 | % | 05.18.2020 12:11 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126341 — Matrix: Solid — Date Prep: 05.18.2020
MB Sample Id: 7703507-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.18.2020 11:49 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126344 — Matrix: Solid — Date Prep: 05.18.2020
MB Sample Id: 7703506-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.18.2020 11:49 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 661817



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126341 — Matrix: Soil — Date Prep: 05.18.2020
Parent Sample Id: 661817-021 — MS Sample Id: 661817-021 S — MSD Sample Id: 661817-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.8 | 996 | 871 | 87 | 879 | 88 | 70-130 | 1 | 20 | mg/kg | 05.18.2020 13:15 | |
| Diesel Range Organics (DRO) | <49.8 | 996 | 875 | 88 | 904 | 90 | 70-130 | 3 | 20 | mg/kg | 05.18.2020 13:15 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 93 | | 93 | | 70-130 | % | 05.18.2020 13:15 |
| o-Terphenyl | 92 | | 96 | | 70-130 | % | 05.18.2020 13:15 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126344 — Matrix: Soil — Date Prep: 05.18.2020
Parent Sample Id: 661817-001 — MS Sample Id: 661817-001 S — MSD Sample Id: 661817-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 999 | 947 | 95 | 936 | 94 | 70-130 | 1 | 20 | mg/kg | 05.18.2020 13:15 | |
| Diesel Range Organics (DRO) | <50.0 | 999 | 960 | 96 | 971 | 97 | 70-130 | 1 | 20 | mg/kg | 05.18.2020 13:15 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 109 | | 108 | | 70-130 | % | 05.18.2020 13:15 |
| o-Terphenyl | 99 | | 96 | | 70-130 | % | 05.18.2020 13:15 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3126361 — Matrix: Solid — Date Prep: 05.18.2020
MB Sample Id: 7703609-1-BLK — LCS Sample Id: 7703609-1-BKS — LCSD Sample Id: 7703609-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0989 | 99 | 0.119 | 119 | 70-130 | 18 | 35 | mg/kg | 05.18.2020 17:29 | |
| Toluene | <0.00200 | 0.100 | 0.103 | 103 | 0.110 | 110 | 70-130 | 7 | 35 | mg/kg | 05.18.2020 17:29 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.109 | 109 | 0.114 | 114 | 70-130 | 4 | 35 | mg/kg | 05.18.2020 17:29 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.203 | 102 | 0.212 | 106 | 70-130 | 4 | 35 | mg/kg | 05.18.2020 17:29 | |
| o-Xylene | <0.00200 | 0.100 | 0.0989 | 99 | 0.103 | 103 | 70-130 | 4 | 35 | mg/kg | 05.18.2020 17:29 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 85 | | 96 | | 101 | | 70-130 | % | 05.18.2020 17:29 |
| 4-Bromofluorobenzene | 55 | ** | 124 | | 122 | | 70-130 | % | 05.18.2020 17:29 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result



Final 1.000

# QC Summary 661817



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3126399 — Matrix: Solid — Date Prep: 05.18.2020
MB Sample Id: 7703620-1-BLK — LCS Sample Id: 7703620-1-BKS — LCSD Sample Id: 7703620-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0940 | 94 | 0.100 | 100 | 70-130 | 6 | 35 | mg/kg | 05.19.2020 04:30 | |
| Toluene | <0.00200 | 0.100 | 0.0955 | 96 | 0.103 | 103 | 70-130 | 8 | 35 | mg/kg | 05.19.2020 04:30 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.102 | 102 | 0.111 | 111 | 70-130 | 8 | 35 | mg/kg | 05.19.2020 04:30 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.192 | 96 | 0.212 | 106 | 70-130 | 10 | 35 | mg/kg | 05.19.2020 04:30 | |
| o-Xylene | <0.00200 | 0.100 | 0.0972 | 97 | 0.108 | 108 | 70-130 | 11 | 35 | mg/kg | 05.19.2020 04:30 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 81 | | 100 | | 107 | | 70-130 | % | 05.19.2020 04:30 |
| 4-Bromofluorobenzene | 62 | ** | 129 | | 147 | ** | 70-130 | % | 05.19.2020 04:30 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3126326 — Matrix: Solid — Date Prep: 05.18.2020
MB Sample Id: 7703598-1-BLK — LCS Sample Id: 7703598-1-BKS — LCSD Sample Id: 7703598-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.102 | 102 | 0.0982 | 98 | 70-130 | 4 | 35 | mg/kg | 05.18.2020 17:15 | |
| Toluene | <0.00200 | 0.100 | 0.110 | 110 | 0.104 | 104 | 70-130 | 6 | 35 | mg/kg | 05.18.2020 17:15 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.105 | 105 | 0.0985 | 99 | 70-130 | 6 | 35 | mg/kg | 05.18.2020 17:15 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.210 | 105 | 0.197 | 99 | 70-130 | 6 | 35 | mg/kg | 05.18.2020 17:15 | |
| o-Xylene | <0.00200 | 0.100 | 0.101 | 101 | 0.0943 | 94 | 70-130 | 7 | 35 | mg/kg | 05.18.2020 17:15 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 104 | | 104 | | 104 | | 70-130 | % | 05.18.2020 17:15 |
| 4-Bromofluorobenzene | 90 | | 101 | | 100 | | 70-130 | % | 05.18.2020 17:15 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3126361 — Matrix: Soil — Date Prep: 05.18.2020
Parent Sample Id: 661697-011 — MS Sample Id: 661697-011 S — MSD Sample Id: 661697-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0996 | 0.0931 | 93 | 0.0841 | 84 | 70-130 | 10 | 35 | mg/kg | 05.18.2020 18:28 | |
| Toluene | <0.00199 | 0.0996 | 0.0927 | 93 | 0.0891 | 89 | 70-130 | 4 | 35 | mg/kg | 05.18.2020 18:28 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0900 | 90 | 0.0894 | 90 | 70-130 | 1 | 35 | mg/kg | 05.18.2020 18:28 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.166 | 83 | 0.164 | 82 | 70-130 | 1 | 35 | mg/kg | 05.18.2020 18:28 | |
| o-Xylene | <0.00199 | 0.0996 | 0.0822 | 83 | 0.0802 | 80 | 70-130 | 2 | 35 | mg/kg | 05.18.2020 18:28 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 97 | | 102 | | 70-130 | % | 05.18.2020 18:28 |
| 4-Bromofluorobenzene | 113 | | 94 | | 70-130 | % | 05.18.2020 18:28 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 661817



## Tetra Tech- Midland

Rattlesnake Reuse Pit

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3126399 Matrix: Soil Date Prep: 05.18.2020
Parent Sample Id: 661817-003 MS Sample Id: 661817-003 S MSD Sample Id: 661817-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.0998 | 0.0895 | 90 | 0.0788 | 79 | 70-130 | 13 | 35 | mg/kg | 05.19.2020 05:10 | |
| Toluene | <0.00200 | 0.0998 | 0.0947 | 95 | 0.0831 | 84 | 70-130 | 13 | 35 | mg/kg | 05.19.2020 05:10 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.103 | 103 | 0.0892 | 90 | 70-130 | 14 | 35 | mg/kg | 05.19.2020 05:10 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.194 | 97 | 0.167 | 84 | 70-130 | 15 | 35 | mg/kg | 05.19.2020 05:10 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0968 | 97 | 0.0849 | 86 | 70-130 | 13 | 35 | mg/kg | 05.19.2020 05:10 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 104 | | 70-130 | % | 05.19.2020 05:10 |
| 4-Bromofluorobenzene | 134 | ** | 132 | ** | 70-130 | % | 05.19.2020 05:10 |

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3126326 Matrix: Soil Date Prep: 05.18.2020
Parent Sample Id: 661896-001 MS Sample Id: 661896-001 S MSD Sample Id: 661896-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0996 | 0.0910 | 91 | 0.100 | 100 | 70-130 | 9 | 35 | mg/kg | 05.18.2020 18:08 | |
| Toluene | <0.00199 | 0.0996 | 0.0856 | 86 | 0.0978 | 98 | 70-130 | 13 | 35 | mg/kg | 05.18.2020 18:08 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0700 | 70 | 0.0860 | 86 | 70-130 | 21 | 35 | mg/kg | 05.18.2020 18:08 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.141 | 71 | 0.173 | 87 | 70-130 | 20 | 35 | mg/kg | 05.18.2020 18:08 | |
| o-Xylene | <0.00199 | 0.0996 | 0.0668 | 67 | 0.0828 | 83 | 70-130 | 21 | 35 | mg/kg | 05.18.2020 18:08 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 107 | | 108 | | 70-130 | % | 05.18.2020 18:08 |
| 4-Bromofluorobenzene | 99 | | 94 | | 70-130 | % | 05.18.2020 18:08 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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**Analysis Request of Chain of Custody Record**

LAO1817

Page 1 of 3

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co. NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | TIME | MATRIX WATER | SOIL | | PRESERVATIVE METHOD HCL | $HNO_3$ | ICE | None | | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH 71 (3.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH 72 (3.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH 90 (3.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH 97 (3.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH 107 (5.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH 115 (5.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH 119 (5.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH 120 (3.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH 122 (5.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | BH 143 (3.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Cassandra Mabry | Date: 5/18/20 | Time: 0919 | Received by: [signature] |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: 5/18 Time: 9:10

**LAB USE ONLY**

Sample Temperature 1.3/1.0

-0.3 B9

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 6/29/2021 10:26:12 AM
Page 66 of 69
Final 1.000
Released to Imaging: 7/15/2021 9:51:59 AM

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Analysis Request of Chain of Custody Record

6/8/17



# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co. NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | 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 | Sulfate | TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BTEX 8260B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BH-170 (2.5') | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | ESW - 1 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | ESW - 3 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | SSW - 1 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | SSW - 2 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | WSW - 1 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | WSW - 2 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | NSW - 5 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | NSW - 7 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | ESW - 6 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Connor Mealing | Date: 5/18/20 | Time: 0910 | Received by: [illegible] |
| Relinquished by: | Date: | Time: | Received by: |
| ~~Relinquished by:~~ | ~~Date:~~ | ~~Time:~~ | ~~Received by:~~ |

Date: 5/19 Time: 910

Date: Time:

Date: Time:

**LAB USE ONLY**

Sample Temperature 1.3/1.0

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ ~~Special Report Limits or TRRP Report~~

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Final 1.000
Released to Imaging: 7/15/2021 9:51:59 AM

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Analysis Request of Chain of Custody Record

Page 3 of 3

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co. NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | TIME | MATRIX WATER | SOIL | | PRESERVATIVE METHOD HCL | $HNO_3$ | ICE | None | | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WSW - 4 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WSW - 5 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WSW - 7 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | SSW - 6 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | NSW - 9 | 5/12/2020 | | | X | | | | X | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Relinquished by: Bonnie Mosley | Date: 5/18/20 | Time: 0914 | Received by: TRN | Date: 5/19 Time: 910 |
| Relinquished by: | Date: | Time: | Received by: | Date: Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: Time: |

**LAB USE ONLY**
Sample Temperature
1.3/1.0

**REMARKS:**
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/29/2021 10:26:12 AM
Released to Imaging: 7/15/2021 9:51:59 AM
Final 1.000
Page 68 of 69

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 05.18.2020 09.10.00 AM

**Work Order #:** 661817

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : R9**

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | 1 | |
| #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** | BTEX was in bulk container |
| #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)? | **N/A** | |
| #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:** Brianna Teel Date: 05.18.2020
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 05.18.2020
Jessica Kramer

# Certificate of Analysis Summary 662366

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co NM

**Date Received in Lab:** Fri 05.22.2020 09:45
**Report Date:** 05.28.2020 12:27
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 662366-001 | | 662366-002 | | 662366-003 | | 662366-004 | | 662366-005 | | 662366-006 | |
| | ***Field Id:*** | Sidewall - North 9 | | Sidewall - North 10 | | Sidewall - North 11 | | Sidewall - North 12 | | Sidewall - North 13 | | Sidewall - North 14 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | |
| | ***Analyzed:*** | 05.23.2020 06:29 | | 05.23.2020 06:49 | | 05.23.2020 07:09 | | 05.23.2020 07:30 | | 05.23.2020 07:50 | | 05.23.2020 08:10 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | |
| | ***Analyzed:*** | 05.22.2020 21:31 | | 05.22.2020 21:48 | | 05.22.2020 21:53 | | 05.22.2020 21:59 | | 05.22.2020 22:05 | | 05.22.2020 22:22 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 175 | 4.98 | 180 | 5.00 | 153 | 5.02 | 105 | 5.04 | 141 | 5.02 | 238 | 4.97 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | |
| | ***Analyzed:*** | 05.22.2020 13:30 | | 05.22.2020 14:36 | | 05.22.2020 14:58 | | 05.22.2020 15:20 | | 05.22.2020 15:42 | | 05.22.2020 16:04 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |

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

John Builes
Project Manager

# Certificate of Analysis Summary 662366

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co NM

**Date Received in Lab:** Fri 05.22.2020 09:45
**Report Date:** 05.28.2020 12:27
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 662366-007 | | 662366-008 | | 662366-009 | | 662366-010 | | 662366-011 | | 662366-012 | |
| | ***Field Id:*** | Sidewall - North 15 | | Sidewall - North 16 | | Sidewall - North 17 | | Sidewall - East 10 | | Sidewall - East 11 | | Sidewall - East 12 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | |
| | ***Analyzed:*** | 05.23.2020 08:30 | | 05.23.2020 08:50 | | 05.23.2020 09:10 | | 05.23.2020 09:30 | | 05.23.2020 10:50 | | 05.23.2020 11:10 | |
| | ***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 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00396 | 0.00396 | <0.00402 | 0.00402 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | |
| | ***Analyzed:*** | 05.22.2020 22:28 | | 05.22.2020 22:33 | | 05.22.2020 22:39 | | 05.22.2020 22:45 | | 05.22.2020 22:51 | | 05.22.2020 23:08 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 180 | 4.96 | 197 | 4.97 | 153 | 4.98 | 144 | 4.98 | 188 | 4.99 | 124 | 5.01 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | |
| | ***Analyzed:*** | 05.22.2020 16:26 | | 05.22.2020 16:48 | | 05.22.2020 17:09 | | 05.22.2020 17:31 | | 05.22.2020 18:14 | | 05.22.2020 18:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |

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

John Builes
Project Manager

# Certificate of Analysis Summary 662366

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co NM

**Date Received in Lab:** Fri 05.22.2020 09:45
**Report Date:** 05.28.2020 12:27
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 662366-013 | | 662366-014 | | 662366-015 | | 662366-016 | | 662366-017 | | 662366-018 | |
| | ***Field Id:*** | Sidewall - East 13 | | Sidewall - East 14 | | Sidewall - East 15 | | Sidewall - East 16 | | Sidewall - East 17 | | Sidewall - West 10 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | |
| | ***Analyzed:*** | 05.23.2020 11:31 | | 05.23.2020 11:51 | | 05.23.2020 12:11 | | 05.23.2020 12:31 | | 05.23.2020 12:51 | | 05.23.2020 13:11 | |
| | ***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 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | 0.00311 | 0.00199 |
| Toluene | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | 0.00234 | 0.00199 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00396 | 0.00396 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | 0.00545 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 12:30 | |
| | ***Analyzed:*** | 05.22.2020 23:13 | | 05.22.2020 23:31 | | 05.22.2020 23:36 | | 05.22.2020 23:42 | | 05.22.2020 23:48 | | 05.22.2020 23:53 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 116 | 5.03 | 96.6 | 4.99 | 106 | 4.98 | 131 | 4.96 | 111 | 4.95 | 132 | 5.04 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | |
| | ***Analyzed:*** | 05.22.2020 18:57 | | 05.22.2020 19:19 | | 05.22.2020 19:41 | | 05.22.2020 20:02 | | 05.22.2020 20:25 | | 05.22.2020 20:47 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |

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

John Builes
Project Manager

# Certificate of Analysis Summary 662366

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co NM

**Date Received in Lab:** Fri 05.22.2020 09:45
**Report Date:** 05.28.2020 12:27
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 662366-019 | | 662366-020 | | 662366-021 | | 662366-022 | | 662366-023 | | 662366-024 | |
| | ***Field Id:*** | Sidewall - West 11 | | Sidewall - West 12 | | Sidewall - West 13 | | Sidewall - South 6 | | Sidewall - South 7 | | Sidewall - South 8 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | |
| | ***Analyzed:*** | 05.23.2020 13:32 | | 05.23.2020 13:52 | | 05.22.2020 19:49 | | 05.22.2020 20:10 | | 05.22.2020 20:30 | | 05.22.2020 20:50 | |
| | ***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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Toluene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00396 | 0.00396 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00396 | 0.00396 | <0.00403 | 0.00403 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.22.2020 12:30 | | 05.22.2020 12:30 | | 05.22.2020 15:00 | | 05.22.2020 15:00 | | 05.22.2020 15:00 | | 05.22.2020 15:00 | |
| | ***Analyzed:*** | 05.22.2020 23:59 | | 05.23.2020 00:05 | | 05.22.2020 19:10 | | 05.22.2020 19:31 | | 05.22.2020 19:38 | | 05.22.2020 19:44 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 130 | 4.98 | 123 | 5.05 | 116 | 4.98 | 134 | 4.96 | 125 | 4.98 | 121 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | |
| | ***Analyzed:*** | 05.22.2020 21:09 | | 05.22.2020 21:31 | | 05.22.2020 18:57 | | 05.22.2020 19:19 | | 05.22.2020 19:41 | | 05.22.2020 20:02 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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

John Builes
Project Manager

# Certificate of Analysis Summary 662366

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co NM

**Date Received in Lab:** Fri 05.22.2020 09:45
**Report Date:** 05.28.2020 12:27
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 662366-025 | | 662366-026 | | 662366-027 | | | | | |
| | ***Field Id:*** | Sidewall - South 9 | | Sidewall - South 10 | | Sidewall - South 11 | | | | | |
| | ***Depth:*** | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | 05.21.2020 00:00 | | 05.21.2020 00:00 | | 05.21.2020 00:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 05.22.2020 17:00 | | 05.22.2020 17:00 | | 05.22.2020 17:00 | | | | | |
| | ***Analyzed:*** | 05.22.2020 21:10 | | 05.22.2020 21:30 | | 05.22.2020 21:50 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | |
| Toluene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | <0.00396 | 0.00396 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | | | | |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | |
| Total BTEX | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 05.22.2020 15:00 | | 05.22.2020 15:00 | | 05.22.2020 15:00 | | | | | |
| | ***Analyzed:*** | 05.22.2020 19:51 | | 05.22.2020 20:12 | | 05.22.2020 20:19 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 105 | 5.01 | 137 | 4.99 | 160 | 4.99 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 05.22.2020 11:00 | | 05.22.2020 11:00 | | 05.22.2020 11:00 | | | | | |
| | ***Analyzed:*** | 05.22.2020 20:25 | | 05.22.2020 20:47 | | 05.22.2020 21:09 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | | | | |

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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.

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John Builes
Project Manager

# Analytical Report 662366

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG - Rattlesnake Reuse Pit**

**212C-MD-01974**

**05.28.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.28.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **662366**
**EOG - Rattlesnake Reuse Pit**
Project Address: Lea Co NM

**Mike Carmona**:

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) 662366. 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. 662366 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,



**John Builes**
Project Manager

*A Small Business and Minority Company*

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# Sample Cross Reference 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| Sidewall - North 9 | S | 05.21.2020 00:00 | | 662366-001 |
| Sidewall - North 10 | S | 05.21.2020 00:00 | | 662366-002 |
| Sidewall - North 11 | S | 05.21.2020 00:00 | | 662366-003 |
| Sidewall - North 12 | S | 05.21.2020 00:00 | | 662366-004 |
| Sidewall - North 13 | S | 05.21.2020 00:00 | | 662366-005 |
| Sidewall - North 14 | S | 05.21.2020 00:00 | | 662366-006 |
| Sidewall - North 15 | S | 05.21.2020 00:00 | | 662366-007 |
| Sidewall - North 16 | S | 05.21.2020 00:00 | | 662366-008 |
| Sidewall - North 17 | S | 05.21.2020 00:00 | | 662366-009 |
| Sidewall - East 10 | S | 05.21.2020 00:00 | | 662366-010 |
| Sidewall - East 11 | S | 05.21.2020 00:00 | | 662366-011 |
| Sidewall - East 12 | S | 05.21.2020 00:00 | | 662366-012 |
| Sidewall - East 13 | S | 05.21.2020 00:00 | | 662366-013 |
| Sidewall - East 14 | S | 05.21.2020 00:00 | | 662366-014 |
| Sidewall - East 15 | S | 05.21.2020 00:00 | | 662366-015 |
| Sidewall - East 16 | S | 05.21.2020 00:00 | | 662366-016 |
| Sidewall - East 17 | S | 05.21.2020 00:00 | | 662366-017 |
| Sidewall - West 10 | S | 05.21.2020 00:00 | | 662366-018 |
| Sidewall - West 11 | S | 05.21.2020 00:00 | | 662366-019 |
| Sidewall - West 12 | S | 05.21.2020 00:00 | | 662366-020 |
| Sidewall - West 13 | S | 05.21.2020 00:00 | | 662366-021 |
| Sidewall - South 6 | S | 05.21.2020 00:00 | | 662366-022 |
| Sidewall - South 7 | S | 05.21.2020 00:00 | | 662366-023 |
| Sidewall - South 8 | S | 05.21.2020 00:00 | | 662366-024 |
| Sidewall - South 9 | S | 05.21.2020 00:00 | | 662366-025 |
| Sidewall - South 10 | S | 05.21.2020 00:00 | | 662366-026 |
| Sidewall - South 11 | S | 05.21.2020 00:00 | | 662366-027 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG - Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *662366*

Report Date: *05.28.2020*
Date Received: *05.22.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3126929 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7704034-1-BKS,7704034-1-BSD,662366-002 S,662366-002 SD,662366-019,662366-015,662366-009,662366-006,662366-020,662366-004.

Batch: LBA-3126951 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7704021-1-BKS,7704021-1-BSD,662366-021 S,662366-021 SD.

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 9** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-001 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **175** | 4.98 | mg/kg | 05.22.2020 21:31 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 13:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 13:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 13:30 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 13:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 05.22.2020 13:30 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 05.22.2020 13:30 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 9** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-001 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:29 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.23.2020 06:29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:29 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 05.23.2020 06:29 | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 05.23.2020 06:29 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 10** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-002 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **180** | 5.00 | mg/kg | 05.22.2020 21:48 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.22.2020 14:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.22.2020 14:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.22.2020 14:36 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.22.2020 14:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 05.22.2020 14:36 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 05.22.2020 14:36 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 10** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-002 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:49 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.23.2020 06:49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:49 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.23.2020 06:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 05.23.2020 06:49 | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 05.23.2020 06:49 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 11** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-003 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **153** | 5.02 | mg/kg | 05.22.2020 21:53 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 14:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 14:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 14:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 14:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 05.22.2020 14:58 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 05.22.2020 14:58 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 11** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-003 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 07:09 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 07:09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 07:09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.23.2020 07:09 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 07:09 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 07:09 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.23.2020 07:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 05.23.2020 07:09 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 05.23.2020 07:09 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 12** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-004 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **105** | 5.04 | mg/kg | 05.22.2020 21:59 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 15:20 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 15:20 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 15:20 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 15:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 05.22.2020 15:20 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 05.22.2020 15:20 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 12** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-004 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 07:30 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 07:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 07:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.23.2020 07:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 07:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 07:30 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.23.2020 07:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 147 | % | 70-130 | 05.23.2020 07:30 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 05.23.2020 07:30 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 13** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-005 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **141** | 5.02 | mg/kg | 05.22.2020 22:05 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.22.2020 15:42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.22.2020 15:42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.22.2020 15:42 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.22.2020 15:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 05.22.2020 15:42 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.22.2020 15:42 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 13** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-005 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 07:50 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 07:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 07:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.23.2020 07:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 07:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 07:50 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.23.2020 07:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.23.2020 07:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 05.23.2020 07:50 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 14** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-006 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **238** | 4.97 | mg/kg | 05.22.2020 22:22 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 16:04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 16:04 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 16:04 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 16:04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 05.22.2020 16:04 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 05.22.2020 16:04 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 14** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-006 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:10 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.23.2020 08:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:10 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 138 | % | 70-130 | 05.23.2020 08:10 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.23.2020 08:10 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 15** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-007 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **180** | 4.96 | mg/kg | 05.22.2020 22:28 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 16:26 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 16:26 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 16:26 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 16:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 05.22.2020 16:26 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.22.2020 16:26 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 15** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-007 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 08:30 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 08:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 08:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.23.2020 08:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 08:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 08:30 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.23.2020 08:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 05.23.2020 08:30 | |
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 05.23.2020 08:30 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 16** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-008 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **197** | 4.97 | mg/kg | 05.22.2020 22:33 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.22.2020 16:48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.22.2020 16:48 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.22.2020 16:48 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.22.2020 16:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 05.22.2020 16:48 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 05.22.2020 16:48 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 16** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-008 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:50 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.23.2020 08:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:50 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.23.2020 08:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 05.23.2020 08:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 05.23.2020 08:50 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 17** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-009 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **153** | 4.98 | mg/kg | 05.22.2020 22:39 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 17:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 17:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 17:09 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 17:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 05.22.2020 17:09 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 05.22.2020 17:09 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - North 17** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-009 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:10 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.23.2020 09:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:10 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 05.23.2020 09:10 | |
| 4-Bromofluorobenzene | 460-00-4 | 143 | % | 70-130 | 05.23.2020 09:10 | ** |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 10** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-010 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **144** | 4.98 | mg/kg | 05.22.2020 22:45 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.22.2020 17:31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.22.2020 17:31 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.22.2020 17:31 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.22.2020 17:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 05.22.2020 17:31 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 05.22.2020 17:31 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 10** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-010 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:30 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.23.2020 09:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:30 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.23.2020 09:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 05.23.2020 09:30 | |
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 05.23.2020 09:30 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 11** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-011 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **188** | 4.99 | mg/kg | 05.22.2020 22:51 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.22.2020 18:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.22.2020 18:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.22.2020 18:14 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.22.2020 18:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 05.22.2020 18:14 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 05.22.2020 18:14 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 11** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-011 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.23.2020 10:50 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.23.2020 10:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.23.2020 10:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.23.2020 10:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.23.2020 10:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.23.2020 10:50 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.23.2020 10:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 05.23.2020 10:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 05.23.2020 10:50 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 12** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-012 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **124** | 5.01 | mg/kg | 05.22.2020 23:08 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 18:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 18:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 18:36 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 18:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 05.22.2020 18:36 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 05.22.2020 18:36 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 12** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-012 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 11:10 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 11:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 11:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.23.2020 11:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 11:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 11:10 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.23.2020 11:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 88 | % | 70-130 | 05.23.2020 11:10 | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 05.23.2020 11:10 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 13** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-013 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **116** | 5.03 | mg/kg | 05.22.2020 23:13 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 18:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 18:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 18:57 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 18:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 05.22.2020 18:57 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 05.22.2020 18:57 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 13** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-013 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:31 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:31 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.23.2020 11:31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:31 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 05.23.2020 11:31 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 05.23.2020 11:31 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 14** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-014 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **96.6** | 4.99 | mg/kg | 05.22.2020 23:31 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.22.2020 19:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.22.2020 19:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.22.2020 19:19 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.22.2020 19:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 05.22.2020 19:19 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 05.22.2020 19:19 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 14** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-014 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:51 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:51 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.23.2020 11:51 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:51 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:51 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.23.2020 11:51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 79 | % | 70-130 | 05.23.2020 11:51 | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 05.23.2020 11:51 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 15** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-015 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **106** | 4.98 | mg/kg | 05.22.2020 23:36 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 05.22.2020 19:41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 05.22.2020 19:41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 05.22.2020 19:41 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 05.22.2020 19:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 05.22.2020 19:41 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 05.22.2020 19:41 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 15** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-015 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:11 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:11 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:11 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.23.2020 12:11 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:11 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:11 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 145 | % | 70-130 | 05.23.2020 12:11 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 05.23.2020 12:11 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 16** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-016 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **131** | 4.96 | mg/kg | 05.22.2020 23:42 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 20:02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:02 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 05.22.2020 20:02 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 05.22.2020 20:02 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 16** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-016 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:31 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:31 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.23.2020 12:31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:31 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.23.2020 12:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 05.23.2020 12:31 | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 05.23.2020 12:31 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 17** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-017 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **111** | 4.95 | mg/kg | 05.22.2020 23:48 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 20:25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:25 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 05.22.2020 20:25 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 05.22.2020 20:25 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - East 17** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-017 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 12:51 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 12:51 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 12:51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.23.2020 12:51 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 12:51 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.23.2020 12:51 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.23.2020 12:51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 05.23.2020 12:51 | |
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 05.23.2020 12:51 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - West 10** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-018 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **132** | 5.04 | mg/kg | 05.22.2020 23:53 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 20:47 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:47 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 05.22.2020 20:47 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 05.22.2020 20:47 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - West 10** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-018 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Benzene** | 71-43-2 | **0.00311** | 0.00199 | mg/kg | 05.23.2020 13:11 | | 1 |
| **Toluene** | 108-88-3 | **0.00234** | 0.00199 | mg/kg | 05.23.2020 13:11 | | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 13:11 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.23.2020 13:11 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 13:11 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 13:11 | U | 1 |
| **Total BTEX** | | **0.00545** | 0.00199 | mg/kg | 05.23.2020 13:11 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 77 | % | 70-130 | 05.23.2020 13:11 | |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 05.23.2020 13:11 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - West 11** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-019 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **130** | 4.98 | mg/kg | 05.22.2020 23:59 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.22.2020 21:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.22.2020 21:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.22.2020 21:09 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.22.2020 21:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 05.22.2020 21:09 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 05.22.2020 21:09 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - West 11** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-019 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 13:32 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 13:32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 13:32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.23.2020 13:32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 13:32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.23.2020 13:32 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.23.2020 13:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 134 | % | 70-130 | 05.23.2020 13:32 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 05.23.2020 13:32 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - West 12** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-020 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 05.22.2020 12:30 | Basis: | Wet Weight |
| Seq Number: | 3126839 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **123** | 5.05 | mg/kg | 05.23.2020 00:05 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126889 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.22.2020 21:31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.22.2020 21:31 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.22.2020 21:31 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.22.2020 21:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 05.22.2020 21:31 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 05.22.2020 21:31 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - West 12** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-020 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126929 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 13:52 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 13:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 13:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.23.2020 13:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 13:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.23.2020 13:52 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.23.2020 13:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 134 | % | 70-130 | 05.23.2020 13:52 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 05.23.2020 13:52 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - West 13** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-021 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.22.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3126840 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **116** | 4.98 | mg/kg | 05.22.2020 19:10 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126886 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 18:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 18:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 18:57 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 18:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-130 | 05.22.2020 18:57 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 05.22.2020 18:57 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - West 13** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-021 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126951 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 19:49 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 19:49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 19:49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.22.2020 19:49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 19:49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 19:49 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.22.2020 19:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 05.22.2020 19:49 | |
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 05.22.2020 19:49 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 6** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-022 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.22.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3126840 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **134** | 4.96 | mg/kg | 05.22.2020 19:31 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126886 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 19:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 19:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 19:19 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 19:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-130 | 05.22.2020 19:19 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 05.22.2020 19:19 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 6** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-022 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126951 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 20:10 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 20:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 20:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.22.2020 20:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 20:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 20:10 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.22.2020 20:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 126 | % | 70-130 | 05.22.2020 20:10 | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 05.22.2020 20:10 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 7** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-023 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.22.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3126840 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **125** | 4.98 | mg/kg | 05.22.2020 19:38 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126886 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 19:41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 19:41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 19:41 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 19:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-130 | 05.22.2020 19:41 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 05.22.2020 19:41 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 7** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-023 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126951 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 05.22.2020 20:30 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 05.22.2020 20:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 05.22.2020 20:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 05.22.2020 20:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 05.22.2020 20:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 05.22.2020 20:30 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 05.22.2020 20:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 05.22.2020 20:30 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 05.22.2020 20:30 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 8** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-024 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.22.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3126840 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **121** | 4.95 | mg/kg | 05.22.2020 19:44 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126886 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.22.2020 20:02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.22.2020 20:02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.22.2020 20:02 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.22.2020 20:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 79 | % | 70-130 | 05.22.2020 20:02 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-130 | 05.22.2020 20:02 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 8** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-024 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126951 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 20:50 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 20:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 20:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 05.22.2020 20:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 20:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 20:50 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.22.2020 20:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 05.22.2020 20:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 05.22.2020 20:50 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 9** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-025 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.22.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3126840 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **105** | 5.01 | mg/kg | 05.22.2020 19:51 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126886 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.22.2020 20:25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.22.2020 20:25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.22.2020 20:25 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.22.2020 20:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 81 | % | 70-130 | 05.22.2020 20:25 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-130 | 05.22.2020 20:25 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 9** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-025 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126951 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 21:10 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 21:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 21:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 05.22.2020 21:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 21:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.22.2020 21:10 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.22.2020 21:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 05.22.2020 21:10 | |
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 05.22.2020 21:10 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 10** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-026 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.22.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3126840 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **137** | 4.99 | mg/kg | 05.22.2020 20:12 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126886 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 05.22.2020 20:47 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:47 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 05.22.2020 20:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 79 | % | 70-130 | 05.22.2020 20:47 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 05.22.2020 20:47 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 10** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-026 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126951 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.22.2020 21:30 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.22.2020 21:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.22.2020 21:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.22.2020 21:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.22.2020 21:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.22.2020 21:30 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.22.2020 21:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 05.22.2020 21:30 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 05.22.2020 21:30 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 11** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-027 | Date Collected: | 05.21.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 05.22.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3126840 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **160** | 4.99 | mg/kg | 05.22.2020 20:19 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.22.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3126886 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 05.22.2020 21:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 05.22.2020 21:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 05.22.2020 21:09 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 05.22.2020 21:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 78 | % | 70-130 | 05.22.2020 21:09 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-130 | 05.22.2020 21:09 | |

# Certificate of Analytical Results 662366

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Sidewall - South 11** | Matrix: | Soil | Date Received: | 05.22.2020 09:45 |
| Lab Sample Id: | 662366-027 | Date Collected: | 05.21.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 05.22.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3126951 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 21:50 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 21:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 21:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.22.2020 21:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 21:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.22.2020 21:50 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.22.2020 21:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 05.22.2020 21:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 05.22.2020 21:50 | |

# 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. **ND** Not Detected.

**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

# QC Summary 662366



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126839 Matrix: Solid Date Prep: 05.22.2020
MB Sample Id: 7703933-1-BLK LCS Sample Id: 7703933-1-BKS LCSD Sample Id: 7703933-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 248 | 99 | 258 | 103 | 90-110 | 4 | 20 | mg/kg | 05.22.2020 21:19 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126840 Matrix: Solid Date Prep: 05.22.2020
MB Sample Id: 7703982-1-BLK LCS Sample Id: 7703982-1-BKS LCSD Sample Id: 7703982-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 249 | 100 | 248 | 99 | 90-110 | 0 | 20 | mg/kg | 05.22.2020 18:56 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126839 Matrix: Soil Date Prep: 05.22.2020
Parent Sample Id: 662366-011 MS Sample Id: 662366-011 S MSD Sample Id: 662366-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 188 | 250 | 433 | 98 | 438 | 100 | 90-110 | 1 | 20 | mg/kg | 05.22.2020 22:56 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126840 Matrix: Soil Date Prep: 05.22.2020
Parent Sample Id: 662365-004 MS Sample Id: 662365-004 S MSD Sample Id: 662365-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 86.1 | 250 | 326 | 96 | 326 | 96 | 90-110 | 0 | 20 | mg/kg | 05.22.2020 20:53 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3126840 Matrix: Soil Date Prep: 05.22.2020
Parent Sample Id: 662366-021 MS Sample Id: 662366-021 S MSD Sample Id: 662366-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 116 | 249 | 354 | 96 | 354 | 96 | 90-110 | 0 | 20 | mg/kg | 05.22.2020 19:17 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

# QC Summary 662366



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126886 — Matrix: Solid — Date Prep: 05.22.2020
MB Sample Id: 7703940-1-BLK — LCS Sample Id: 7703940-1-BKS — LCSD Sample Id: 7703940-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 839 | 84 | 831 | 83 | 70-130 | 1 | 20 | mg/kg | 05.22.2020 12:47 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 848 | 85 | 851 | 85 | 70-130 | 0 | 20 | mg/kg | 05.22.2020 12:47 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 88 | | 82 | | 81 | | 70-130 | % | 05.22.2020 12:47 |
| o-Terphenyl | 100 | | 95 | | 89 | | 70-130 | % | 05.22.2020 12:47 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126889 — Matrix: Solid — Date Prep: 05.22.2020
MB Sample Id: 7703941-1-BLK — LCS Sample Id: 7703941-1-BKS — LCSD Sample Id: 7703941-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 906 | 91 | 884 | 88 | 70-130 | 2 | 20 | mg/kg | 05.22.2020 12:47 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 900 | 90 | 890 | 89 | 70-130 | 1 | 20 | mg/kg | 05.22.2020 12:47 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 105 | | 101 | | 100 | | 70-130 | % | 05.22.2020 12:47 |
| o-Terphenyl | 110 | | 95 | | 103 | | 70-130 | % | 05.22.2020 12:47 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126886 — Matrix: Solid — Date Prep: 05.22.2020
MB Sample Id: 7703940-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.22.2020 12:25 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126889 — Matrix: Solid — Date Prep: 05.22.2020
MB Sample Id: 7703941-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 05.22.2020 12:25 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



Final 1.000

# QC Summary 662366



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126886 — Matrix: Soil — Date Prep: 05.22.2020
Parent Sample Id: 662293-001 — MS Sample Id: 662293-001 S — MSD Sample Id: 662293-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 879 | 88 | 856 | 86 | 70-130 | 3 | 20 | mg/kg | 05.22.2020 13:52 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 877 | 88 | 889 | 89 | 70-130 | 1 | 20 | mg/kg | 05.22.2020 13:52 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 83 | | 93 | | 70-130 | % | 05.22.2020 13:52 |
| o-Terphenyl | 92 | | 101 | | 70-130 | % | 05.22.2020 13:52 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126889 — Matrix: Soil — Date Prep: 05.22.2020
Parent Sample Id: 662366-001 — MS Sample Id: 662366-001 S — MSD Sample Id: 662366-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 998 | 909 | 91 | 921 | 92 | 70-130 | 1 | 20 | mg/kg | 05.22.2020 13:52 | |
| Diesel Range Organics (DRO) | <49.9 | 998 | 953 | 95 | 963 | 97 | 70-130 | 1 | 20 | mg/kg | 05.22.2020 13:52 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 100 | | 102 | | 70-130 | % | 05.22.2020 13:52 |
| o-Terphenyl | 106 | | 105 | | 70-130 | % | 05.22.2020 13:52 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3126929 — Matrix: Solid — Date Prep: 05.22.2020
MB Sample Id: 7704034-1-BLK — LCS Sample Id: 7704034-1-BKS — LCSD Sample Id: 7704034-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.107 | 107 | 0.105 | 105 | 70-130 | 2 | 35 | mg/kg | 05.23.2020 04:11 | |
| Toluene | <0.00200 | 0.100 | 0.0969 | 97 | 0.0913 | 91 | 70-130 | 6 | 35 | mg/kg | 05.23.2020 04:11 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0945 | 95 | 0.0912 | 91 | 70-130 | 4 | 35 | mg/kg | 05.23.2020 04:11 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.177 | 89 | 0.170 | 85 | 70-130 | 4 | 35 | mg/kg | 05.23.2020 04:11 | |
| o-Xylene | <0.00200 | 0.100 | 0.0917 | 92 | 0.0863 | 86 | 70-130 | 6 | 35 | mg/kg | 05.23.2020 04:11 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 87 | | 99 | | 93 | | 70-130 | % | 05.23.2020 04:11 |
| 4-Bromofluorobenzene | 98 | | 172 | ** | 149 | ** | 70-130 | % | 05.23.2020 04:11 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result



Final 1.000

# QC Summary 662366



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3126951 | Matrix: Solid | Date Prep: 05.22.2020
MB Sample Id: 7704021-1-BLK | LCS Sample Id: 7704021-1-BKS | LCSD Sample Id: 7704021-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.110 | 110 | 0.0998 | 100 | 70-130 | 10 | 35 | mg/kg | 05.22.2020 17:30 | |
| Toluene | <0.00200 | 0.100 | 0.109 | 109 | 0.0994 | 99 | 70-130 | 9 | 35 | mg/kg | 05.22.2020 17:30 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.115 | 115 | 0.104 | 104 | 70-130 | 10 | 35 | mg/kg | 05.22.2020 17:30 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.220 | 110 | 0.195 | 98 | 70-130 | 12 | 35 | mg/kg | 05.22.2020 17:30 | |
| o-Xylene | <0.00200 | 0.100 | 0.107 | 107 | 0.0967 | 97 | 70-130 | 10 | 35 | mg/kg | 05.22.2020 17:30 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 87 | | 102 | | 100 | | 70-130 | % | 05.22.2020 17:30 |
| 4-Bromofluorobenzene | 87 | | 156 | ** | 158 | ** | 70-130 | % | 05.22.2020 17:30 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3126929 | Matrix: Soil | Date Prep: 05.22.2020
Parent Sample Id: 662366-002 | MS Sample Id: 662366-002 S | MSD Sample Id: 662366-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.0998 | 0.0945 | 95 | 0.0992 | 100 | 70-130 | 5 | 35 | mg/kg | 05.23.2020 04:51 | |
| Toluene | <0.00200 | 0.0998 | 0.0867 | 87 | 0.0859 | 87 | 70-130 | 1 | 35 | mg/kg | 05.23.2020 04:51 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0798 | 80 | 0.0839 | 85 | 70-130 | 5 | 35 | mg/kg | 05.23.2020 04:51 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.151 | 76 | 0.156 | 79 | 70-130 | 3 | 35 | mg/kg | 05.23.2020 04:51 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0862 | 86 | 0.0803 | 81 | 70-130 | 7 | 35 | mg/kg | 05.23.2020 04:51 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 99 | | 70-130 | % | 05.23.2020 04:51 |
| 4-Bromofluorobenzene | 166 | ** | 163 | ** | 70-130 | % | 05.23.2020 04:51 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3126951 | Matrix: Soil | Date Prep: 05.22.2020
Parent Sample Id: 662366-021 | MS Sample Id: 662366-021 S | MSD Sample Id: 662366-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0994 | 0.0865 | 87 | 0.0953 | 95 | 70-130 | 10 | 35 | mg/kg | 05.22.2020 18:10 | |
| Toluene | <0.00199 | 0.0994 | 0.0908 | 91 | 0.0950 | 95 | 70-130 | 5 | 35 | mg/kg | 05.22.2020 18:10 | |
| Ethylbenzene | <0.00199 | 0.0994 | 0.0988 | 99 | 0.0994 | 100 | 70-130 | 1 | 35 | mg/kg | 05.22.2020 18:10 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.188 | 94 | 0.187 | 94 | 70-130 | 1 | 35 | mg/kg | 05.22.2020 18:10 | |
| o-Xylene | <0.00199 | 0.0994 | 0.0926 | 93 | 0.0927 | 93 | 70-130 | 0 | 35 | mg/kg | 05.22.2020 18:10 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 101 | | 108 | | 70-130 | % | 05.22.2020 18:10 |
| 4-Bromofluorobenzene | 155 | ** | 159 | ** | 70-130 | % | 05.22.2020 18:10 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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Analysis Request of Chain of Custody Record

6623666 Page 1 of 3

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | TIME | MATRIX WATER | SOIL | | PRESERVATIVE METHOD HCL | $HNO_3$ | ICE | None | | # CONTAINERS | FILTERED (Y/N) | BTEX 8260B | BTEX 8021B | 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 | Sulfate | TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sidewall - North 9 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Sidewall - North 10 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Sidewall - North 11 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Sidewall - North 12 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Sidewall - North 13 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Sidewall - North 14 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Sidewall - North 15 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Sidewall - North 16 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Sidewall - North 17 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Sidewall - East 10 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Adrian Garcia | Date: 5/22/20 | Time: 0945 | Received by: [illegible] |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: 5/22 Time: 945

**LAB USE ONLY**

Sample Temperature 3.2/2.9

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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**Analysis Request of Chain of Custody Record**

6623666 Page 2 of 3

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | 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 | Sulfate | TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sidewall - East 11 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - East 12 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - East 13 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - East 14 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - East 15 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - East 16 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - East 17 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Sidewal - West 10 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Sidewal - West 11 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |
| | Sidewal - West 12 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Corin Murray | Date: 5/22/20 | Time: 0945 | Received by: J KRAMER |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: 5/22 Time: 945

**LAB USE ONLY**
Sample Temperature

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Lt623666 Page 3 of 3

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - Todd Wells | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Adrian Garcia |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | HNO3 | ICE | None | | # CONTAINERS | FILTERED (Y/N) | 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 | Sulfate | TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sidewall - West 13 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - South 6 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - South 7 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - South 8 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - South 9 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - South 10 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | | |
| | Sidewall - South 11 | 5/21/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Courtney | Date: 5/22/20 | Time: 0945 | Received by: KRAMER |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: 5/22 Time: 945

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 05.22.2020 09.45.00 AM

**Work Order #:** 662366

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : R9**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 2.9 |
| #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)? | **N/A** |
| #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:** Allison Johnson Date: 05.22.2020

**Checklist reviewed by:** Jessica Kramer Date: 05.22.2020

Jessica Kramer

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-001 | | 664339-002 | | 664339-003 | | 664339-004 | | 664339-005 | | 664339-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-261 Comp 2' | | Bottomhole-262 Comp 2' | | Bottomhole-263 Comp 2' | | Bottomhole-264 Comp 2' | | Bottomhole-265 Comp 2' | | Bottomhole-266 Comp 2' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | |
| | *Analyzed:* | 06.17.2020 11:01 | | 06.17.2020 11:21 | | 06.17.2020 11:42 | | 06.17.2020 12:03 | | 06.17.2020 12:23 | | 06.17.2020 12:44 | |
| | *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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Toluene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00396 | 0.00396 | <0.00398 | 0.00398 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 16:15 | | 06.12.2020 16:15 | | 06.12.2020 16:15 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | |
| | *Analyzed:* | 06.13.2020 02:17 | | 06.13.2020 02:22 | | 06.13.2020 02:27 | | 06.12.2020 21:12 | | 06.12.2020 21:30 | | 06.12.2020 21:36 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 34.1 | 5.00 | 19.5 | 5.02 | 86.8 | 4.98 | 79.6 | 5.05 | 45.5 | 5.02 | 41.3 | 4.98 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | |
| | *Analyzed:* | 06.13.2020 13:32 | | 06.13.2020 14:31 | | 06.13.2020 14:50 | | 06.13.2020 15:10 | | 06.13.2020 15:30 | | 06.13.2020 15:49 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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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 Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-007 | | 664339-008 | | 664339-009 | | 664339-010 | | 664339-011 | | 664339-012 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-267 Comp 2' | | Bottomhole-268 Comp 2' | | Bottomhole-269 Comp 2' | | Bottomhole-270Comp 2' | | Bottomhole-271 Comp 2' | | Bottomhole-272 Comp 2' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | |
| | *Analyzed:* | 06.17.2020 13:05 | | 06.17.2020 13:25 | | 06.17.2020 13:46 | | 06.17.2020 14:07 | | 06.17.2020 15:28 | | 06.17.2020 15:48 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00201 | 0.00201 |
| Toluene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00402 | 0.00402 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | |
| | *Analyzed:* | 06.12.2020 21:42 | | 06.12.2020 21:49 | | 06.12.2020 22:07 | | 06.12.2020 22:13 | | 06.12.2020 22:19 | | 06.12.2020 22:26 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 15.0 | 4.96 | 46.2 | 5.00 | 62.3 | 4.95 | 107 | 4.95 | 35.1 | 5.04 | 84.8 | 4.98 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | |
| | *Analyzed:* | 06.13.2020 16:09 | | 06.13.2020 16:28 | | 06.13.2020 16:47 | | 06.13.2020 17:06 | | 06.13.2020 17:43 | | 06.13.2020 18:02 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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 Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-013 | | 664339-014 | | 664339-015 | | 664339-016 | | 664339-017 | | 664339-018 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-273 Comp 3' | | Bottomhole-274 Comp 3' | | Bottomhole-275 Comp 3' | | Bottomhole-276 Comp 3' | | Bottomhole-277 Comp 3' | | Bottomhole-278 Comp 3' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:30 | |
| | *Analyzed:* | 06.17.2020 16:19 | | 06.17.2020 16:39 | | 06.17.2020 17:00 | | 06.17.2020 17:20 | | 06.17.2020 17:41 | | 06.17.2020 18:01 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Toluene | | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00404 | 0.00404 | <0.00402 | 0.00402 | <0.00402 | 0.00402 | <0.00400 | 0.00400 | <0.00399 | 0.00399 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | |
| | *Analyzed:* | 06.12.2020 22:32 | | 06.12.2020 22:38 | | 06.12.2020 22:56 | | 06.12.2020 23:02 | | 06.12.2020 23:21 | | 06.12.2020 23:27 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 25.2 | 5.00 | 47.2 | 4.97 | 82.8 | 5.01 | 61.8 | 4.96 | 56.8 | 4.99 | 27.9 | 5.05 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.13.2020 09:00 | |
| | *Analyzed:* | 06.13.2020 18:21 | | 06.13.2020 18:39 | | 06.13.2020 18:58 | | 06.13.2020 19:17 | | 06.13.2020 19:36 | | 06.13.2020 19:55 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-019 | | 664339-020 | | 664339-021 | | 664339-022 | | 664339-023 | | 664339-024 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-279 Comp 3' | | Bottomhole-280 Comp 3' | | Bottomhole-281 Comp 3' | | Bottomhole-282 Comp 3' | | Bottomhole-283 Comp 3' | | Bottomhole-284 Comp 3' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 08:30 | | 06.17.2020 08:30 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | |
| | *Analyzed:* | 06.17.2020 18:22 | | 06.17.2020 18:42 | | 06.17.2020 21:46 | | 06.17.2020 22:06 | | 06.17.2020 22:27 | | 06.17.2020 22:47 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:30 | | 06.12.2020 17:45 | |
| | *Analyzed:* | 06.12.2020 23:33 | | 06.12.2020 23:39 | | 06.12.2020 23:45 | | 06.12.2020 23:52 | | 06.12.2020 23:58 | | 06.13.2020 02:57 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 20.2 | 5.00 | 28.7 | 4.95 | 50.7 | 5.02 | 27.9 | 4.98 | 64.3 | 4.98 | 31.2 | 5.00 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.13.2020 09:00 | | 06.13.2020 09:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.13.2020 20:13 | | 06.13.2020 20:32 | | 06.15.2020 12:50 | | 06.15.2020 13:54 | | 06.15.2020 14:15 | | 06.15.2020 14:36 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-025 | | 664339-026 | | 664339-027 | | 664339-028 | | 664339-029 | | 664339-030 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-285 Comp 2' | | Bottomhole-286 Comp 2' | | Bottomhole-287 Comp 2' | | Bottomhole-288 Comp 2' | | Bottomhole-289 Comp 2' | | Bottomhole-290 Comp 2' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | |
| | *Analyzed:* | 06.17.2020 23:08 | | 06.17.2020 23:28 | | 06.17.2020 23:48 | | 06.18.2020 00:09 | | 06.18.2020 00:29 | | 06.18.2020 00:50 | |
| | *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 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Toluene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00396 | 0.00396 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00400 | 0.00400 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | |
| | *Analyzed:* | 06.13.2020 03:13 | | 06.13.2020 03:18 | | 06.13.2020 03:23 | | 06.13.2020 03:28 | | 06.13.2020 03:43 | | 06.13.2020 03:48 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 19.0 | 4.97 | 85.2 | 5.00 | 99.5 | 4.99 | 13.3 | 5.04 | 12.0 | 4.98 | 75.0 | 5.00 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.15.2020 14:57 | | 06.15.2020 15:23 | | 06.15.2020 15:44 | | 06.15.2020 16:05 | | 06.15.2020 16:26 | | 06.15.2020 16:48 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-031 | | 664339-032 | | 664339-033 | | 664339-034 | | 664339-035 | | 664339-036 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-291 Comp 2' | | Bottomhole-292 Comp 2' | | Bottomhole-293 Comp 2' | | Bottomhole-294 Comp 2' | | Bottomhole-295 Comp 2' | | Bottomhole-296 Comp 2' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | |
| | *Analyzed:* | 06.18.2020 02:12 | | 06.18.2020 02:33 | | 06.18.2020 02:53 | | 06.18.2020 03:14 | | 06.18.2020 03:34 | | 06.18.2020 03:54 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Toluene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00400 | 0.00400 | <0.00396 | 0.00396 | <0.00396 | 0.00396 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | |
| | *Analyzed:* | 06.13.2020 03:53 | | 06.13.2020 03:58 | | 06.13.2020 04:03 | | 06.13.2020 04:08 | | 06.13.2020 04:23 | | 06.13.2020 04:28 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 10.7 | 4.96 | 21.4 | 5.03 | 10.1 | 5.05 | 10.9 | 4.98 | 10.7 | 5.00 | 17.4 | 4.97 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.15.2020 17:30 | | 06.15.2020 17:52 | | 06.15.2020 18:13 | | 06.15.2020 18:34 | | 06.15.2020 18:56 | | 06.15.2020 19:17 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-037 | | 664339-038 | | 664339-039 | | 664339-040 | | 664339-041 | | 664339-042 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-297 Comp 3' | | Bottomhole-298 Comp 3' | | Bottomhole-299 Comp 3' | | Bottomhole-300 Comp 3' | | Bottomhole-301 Comp 3' | | Bottomhole-302 Comp 3' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 08:45 | | 06.17.2020 16:00 | | 06.18.2020 15:00 | |
| | *Analyzed:* | 06.18.2020 04:15 | | 06.18.2020 04:35 | | 06.18.2020 04:56 | | 06.18.2020 05:16 | | 06.17.2020 19:29 | | 06.19.2020 01:40 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00396 | 0.00396 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.000990 | 0.000990 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.000990 | 0.000990 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.000990 | 0.000990 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | | 06.12.2020 17:45 | |
| | *Analyzed:* | 06.13.2020 04:44 | | 06.13.2020 04:49 | | 06.13.2020 04:54 | | 06.13.2020 04:59 | | 06.13.2020 05:04 | | 06.13.2020 05:09 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 80.6 | 4.95 | 84.7 | 5.04 | 84.0 | 4.98 | 79.0 | 4.96 | 10.8 | 5.00 | 113 | 5.00 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.15.2020 19:39 | | 06.15.2020 20:00 | | 06.15.2020 20:21 | | 06.15.2020 20:42 | | 06.15.2020 12:50 | | 06.15.2020 13:54 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-043 | | 664339-044 | | 664339-045 | | 664339-046 | | 664339-047 | | 664339-048 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-303 Comp 3' | | Bottomhole-304 Comp 3' | | Bottomhole-305 Comp 3' | | Bottomhole-306 Comp 3' | | Bottomhole-307 Comp 3' | | Bottomhole-308 Comp 3' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.18.2020 15:00 | | 06.18.2020 15:00 | | 06.18.2020 15:00 | | 06.18.2020 15:00 | | 06.17.2020 16:00 | | 06.17.2020 16:00 | |
| | *Analyzed:* | 06.19.2020 02:00 | | 06.19.2020 02:21 | | 06.19.2020 02:41 | | 06.19.2020 03:02 | | 06.19.2020 02:25 | | 06.18.2020 00:15 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00399 | 0.00399 | <0.00399 | 0.00399 | <0.00400 | 0.00400 | <0.00397 | 0.00397 |
| o-Xylene | | <0.000996 | 0.000996 | <0.000998 | 0.000998 | <0.000998 | 0.000998 | <0.000998 | 0.000998 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.000996 | 0.000996 | <0.000998 | 0.000998 | <0.000998 | 0.000998 | <0.000998 | 0.000998 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Total BTEX | | <0.000996 | 0.000996 | <0.000998 | 0.000998 | <0.000998 | 0.000998 | <0.000998 | 0.000998 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 17:45 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | |
| | *Analyzed:* | 06.13.2020 05:14 | | 06.13.2020 05:44 | | 06.13.2020 06:00 | | 06.13.2020 06:05 | | 06.13.2020 06:10 | | 06.13.2020 06:15 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 94.3 | 5.00 | 90.8 | 5.02 | 17.6 | 4.98 | 19.8 | 5.00 | 19.9 | 5.04 | 90.2 | 4.95 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.15.2020 14:15 | | 06.15.2020 14:36 | | 06.15.2020 14:57 | | 06.15.2020 15:23 | | 06.15.2020 15:44 | | 06.15.2020 16:05 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <49.8 | 49.8 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-049 | | 664339-050 | | 664339-051 | | 664339-052 | | 664339-053 | | 664339-054 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-309 Comp 2' | | Bottomhole-310 Comp 2' | | Bottomhole-311 Comp 2' | | Bottomhole-312 Comp 2' | | Bottomhole-313 Comp 2' | | Bottomhole-314 Comp 2' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 16:00 | | 06.17.2020 16:00 | | 06.17.2020 16:00 | | 06.17.2020 16:00 | | 06.17.2020 16:00 | | 06.17.2020 16:00 | |
| | *Analyzed:* | 06.18.2020 00:35 | | 06.18.2020 00:55 | | 06.18.2020 01:16 | | 06.18.2020 01:36 | | 06.18.2020 01:56 | | 06.18.2020 02:17 | |
| | *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 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Toluene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00396 | 0.00396 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | |
| | *Analyzed:* | 06.13.2020 06:30 | | 06.13.2020 06:35 | | 06.13.2020 06:40 | | 06.13.2020 06:45 | | 06.13.2020 06:50 | | 06.13.2020 06:55 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 34.7 | 5.00 | 31.8 | 5.03 | 19.5 | 4.98 | 23.8 | 4.95 | 32.7 | 5.04 | 18.6 | 5.00 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.15.2020 16:26 | | 06.15.2020 16:48 | | 06.15.2020 17:30 | | 06.15.2020 17:52 | | 06.15.2020 18:13 | | 06.15.2020 18:34 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-055 | | 664339-056 | | 664339-057 | | 664339-058 | | 664339-059 | | 664339-060 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-315 Comp 2' | | Bottomhole-316 Comp 2' | | Bottomhole-317 Comp 2' | | Bottomhole-318 Comp 2' | | Bottomhole-319 Comp 2' | | Bottomhole-320 Comp 2' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 16:00 | | 06.17.2020 16:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | |
| | *Analyzed:* | 06.18.2020 02:37 | | 06.18.2020 02:58 | | 06.18.2020 06:19 | | 06.18.2020 06:39 | | 06.18.2020 07:00 | | 06.18.2020 07:20 | |
| | *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 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00396 | 0.00396 | <0.00402 | 0.00402 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | |
| | *Analyzed:* | 06.13.2020 07:10 | | 06.13.2020 07:15 | | 06.13.2020 07:31 | | 06.13.2020 07:36 | | 06.13.2020 07:41 | | 06.13.2020 07:46 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 34.6 | 4.98 | 37.0 | 4.96 | 37.9 | 4.99 | 34.7 | 4.99 | 38.8 | 4.97 | 34.7 | 5.02 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.15.2020 18:56 | | 06.15.2020 19:17 | | 06.15.2020 19:39 | | 06.15.2020 20:00 | | 06.15.2020 20:21 | | 06.15.2020 20:42 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-061 | | 664339-062 | | 664339-063 | | 664339-064 | | 664339-065 | | 664339-066 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-321 Comp 3' | | Bottomhole-322 Comp 3' | | Bottomhole-323 Comp 3' | | Bottomhole-324 Comp 3' | | Bottomhole-325 Comp 3' | | Bottomhole-326 Comp 3' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | |
| | *Analyzed:* | 06.18.2020 07:41 | | 06.18.2020 08:01 | | 06.18.2020 08:21 | | 06.18.2020 08:42 | | 06.18.2020 09:02 | | 06.18.2020 09:23 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Toluene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00401 | 0.00401 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.12.2020 18:15 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | |
| | *Analyzed:* | 06.13.2020 07:51 | | 06.13.2020 07:56 | | 06.13.2020 08:01 | | 06.15.2020 11:18 | | 06.15.2020 11:34 | | 06.15.2020 11:39 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 19.1 | 5.00 | 19.0 | 4.95 | 27.6 | 4.97 | 19.6 | 5.03 | 31.5 | 4.96 | 35.2 | 5.00 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.15.2020 22:29 | | 06.15.2020 23:32 | | 06.15.2020 23:54 | | 06.16.2020 00:15 | | 06.16.2020 00:36 | | 06.16.2020 00:57 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-067 | | 664339-068 | | 664339-069 | | 664339-070 | | 664339-071 | | 664339-072 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-327 Comp 3' | | Bottomhole-328 Comp 3' | | Bottomhole-329 Comp 3' | | Bottomhole-330 Comp 3' | | Bottomhole-331 Comp 2' | | Bottomhole-332 Comp 2' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | |
| | *Analyzed:* | 06.18.2020 11:33 | | 06.18.2020 11:53 | | 06.18.2020 12:13 | | 06.18.2020 12:34 | | 06.18.2020 12:54 | | 06.18.2020 13:15 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00396 | 0.00396 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | |
| | *Analyzed:* | 06.15.2020 11:44 | | 06.15.2020 11:49 | | 06.15.2020 12:04 | | 06.15.2020 12:09 | | 06.15.2020 12:14 | | 06.15.2020 12:19 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 43.7 | 4.98 | 36.6 | 4.99 | 21.2 | 5.02 | 50.7 | 4.97 | 20.3 | 4.95 | 18.6 | 5.05 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.16.2020 01:18 | | 06.16.2020 01:40 | | 06.16.2020 02:01 | | 06.16.2020 02:22 | | 06.16.2020 03:04 | | 06.16.2020 03:25 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-073 | | 664339-074 | | 664339-075 | | 664339-076 | | 664339-077 | | 664339-078 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-333 Comp 2' | | Bottomhole-334 Comp 2' | | Bottomhole-335 Comp 2' | | Bottomhole-336 Comp 2' | | Bottomhole-337 Comp 2' | | Bottomhole-338 Comp 2' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | |
| | *Analyzed:* | 06.18.2020 13:35 | | 06.18.2020 13:56 | | 06.18.2020 14:17 | | 06.18.2020 14:38 | | 06.18.2020 08:41 | | 06.18.2020 09:02 | |
| | *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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00402 | 0.00402 | <0.00397 | 0.00397 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | |
| | *Analyzed:* | 06.15.2020 12:24 | | 06.15.2020 12:29 | | 06.15.2020 12:44 | | 06.15.2020 12:50 | | 06.15.2020 13:05 | | 06.15.2020 13:10 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 9.26 | 5.01 | 10.2 | 4.96 | 10.2 | 5.02 | 9.64 | 4.99 | 11.0 | 4.95 | 10.2 | 4.95 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 11:00 | |
| | *Analyzed:* | 06.16.2020 03:47 | | 06.16.2020 04:08 | | 06.16.2020 04:29 | | 06.16.2020 04:50 | | 06.16.2020 05:11 | | 06.16.2020 05:32 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.9 | 49.9 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-079 | | 664339-080 | | 664339-081 | | 664339-082 | | 664339-083 | | 664339-084 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-339 Comp 2' | | Bottomhole-340 Comp 2' | | Bottomhole-341 Comp 3' | | Bottomhole-342 Comp 3' | | Bottomhole-343 Comp 3' | | Bottomhole-344 Comp 3' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | |
| | *Analyzed:* | 06.18.2020 09:22 | | 06.18.2020 09:43 | | 06.18.2020 08:21 | | 06.18.2020 10:03 | | 06.18.2020 10:24 | | 06.18.2020 10:44 | |
| | *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 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Toluene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00396 | 0.00396 | <0.00401 | 0.00401 | <0.00396 | 0.00396 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:45 | | 06.15.2020 10:57 | |
| | *Analyzed:* | 06.15.2020 13:15 | | 06.15.2020 13:20 | | 06.15.2020 13:25 | | 06.15.2020 13:30 | | 06.15.2020 13:35 | | 06.15.2020 14:05 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 9.99 | 4.95 | 9.46 | 4.97 | 9.68 | 5.04 | 10.3 | 4.99 | 9.89 | 4.96 | 11.0 | 5.00 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 11:00 | | 06.15.2020 11:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | |
| | *Analyzed:* | 06.16.2020 05:53 | | 06.16.2020 06:14 | | 06.15.2020 22:29 | | 06.15.2020 23:32 | | 06.15.2020 23:54 | | 06.16.2020 00:15 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-085 | | 664339-086 | | 664339-087 | | 664339-088 | | 664339-089 | | 664339-090 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-345 Comp 3' | | Bottomhole-346 Comp 3' | | Bottomhole-347 Comp 3' | | Bottomhole-348 Comp 3' | | Bottomhole-349 Comp 3' | | Bottomhole-350 Comp 3' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | |
| | *Analyzed:* | 06.18.2020 11:05 | | 06.18.2020 11:25 | | 06.18.2020 14:49 | | 06.18.2020 15:10 | | 06.18.2020 15:30 | | 06.18.2020 15:51 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | |
| | *Analyzed:* | 06.15.2020 14:21 | | 06.15.2020 14:26 | | 06.15.2020 14:31 | | 06.15.2020 14:36 | | 06.15.2020 14:51 | | 06.15.2020 14:56 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 10.0 | 4.96 | 10.1 | 5.00 | 11.7 | 5.04 | 10.4 | 4.98 | 10.1 | 4.98 | 9.88 | 4.99 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | |
| | *Analyzed:* | 06.16.2020 00:36 | | 06.16.2020 00:57 | | 06.16.2020 01:18 | | 06.16.2020 01:40 | | 06.16.2020 02:01 | | 06.16.2020 02:22 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |

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

Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-091 | | 664339-092 | | 664339-093 | | 664339-094 | | 664339-095 | | 664339-096 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-351 Comp 2' | | Bottomhole-352 Comp 2' | | Bottomhole-353 Comp 2' | | Bottomhole-354 Comp 2' | | Bottomhole-355 Comp 2' | | Bottomhole-356 Comp 2' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | | 06.17.2020 17:00 | |
| | *Analyzed:* | 06.18.2020 16:11 | | 06.18.2020 16:32 | | 06.18.2020 16:52 | | 06.18.2020 17:13 | | 06.18.2020 17:33 | | 06.18.2020 17:53 | |
| | *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 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00401 | 0.00401 | <0.00397 | 0.00397 | <0.00396 | 0.00396 | <0.00399 | 0.00399 | <0.00400 | 0.00400 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | |
| | *Analyzed:* | 06.15.2020 15:01 | | 06.15.2020 15:06 | | 06.15.2020 15:11 | | 06.15.2020 15:16 | | 06.15.2020 15:42 | | 06.15.2020 15:47 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 8.97 | 4.97 | 9.78 | 5.00 | 9.85 | 5.04 | 9.38 | 4.95 | 9.09 | 4.97 | 9.65 | 5.02 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | |
| | *Analyzed:* | 06.16.2020 03:04 | | 06.16.2020 03:25 | | 06.16.2020 03:47 | | 06.16.2020 04:08 | | 06.16.2020 04:29 | | 06.16.2020 04:50 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-097 | | 664339-098 | | 664339-099 | | 664339-100 | | 664339-101 | | 664339-102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-357 Comp 2' | | Bottomhole-358 Comp 2' | | Bottomhole-359 Comp 2' | | Bottomhole-360 Comp 2' | | Bottomhole-361 Comp 3' | | Bottomhole-362 Comp 3' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.18.2020 17:00 | | 06.18.2020 17:00 | | 06.18.2020 17:00 | | 06.18.2020 17:00 | | 06.18.2020 17:00 | | 06.18.2020 17:00 | |
| | *Analyzed:* | 06.18.2020 18:36 | | 06.18.2020 18:57 | | 06.18.2020 19:17 | | 06.18.2020 19:38 | | 06.18.2020 18:16 | | 06.18.2020 19:58 | |
| | *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 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Toluene | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00403 | 0.00403 | <0.00401 | 0.00401 | <0.00404 | 0.00404 | <0.00402 | 0.00402 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | | 06.15.2020 10:57 | |
| | *Analyzed:* | 06.15.2020 16:02 | | 06.15.2020 16:07 | | 06.15.2020 16:12 | | 06.15.2020 16:17 | | 06.15.2020 16:22 | | 06.15.2020 16:27 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 8.83 | 4.95 | 9.16 | 5.00 | 9.68 | 5.00 | 9.00 | 5.00 | 9.12 | 5.03 | 9.36 | 4.99 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.15.2020 15:00 | | 06.16.2020 12:15 | | 06.16.2020 12:15 | |
| | *Analyzed:* | 06.16.2020 05:11 | | 06.16.2020 05:32 | | 06.16.2020 05:53 | | 06.16.2020 06:14 | | 06.16.2020 12:58 | | 06.16.2020 14:03 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 664339-103 | | 664339-104 | | 664339-105 | | 664339-106 | | 664339-107 | | 664339-108 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottomhole-363 Comp 3' | | Bottomhole-364 Comp 3' | | Bottomhole-365 Comp 3' | | Bottomhole-366 Comp 3' | | Bottomhole-367 Comp 3' | | Bottomhole-368 Comp 3' | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | | 06.12.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 06.18.2020 17:00 | | 06.18.2020 17:00 | | 06.18.2020 17:00 | | 06.18.2020 17:00 | | 06.18.2020 17:00 | | 06.18.2020 17:00 | |
| | *Analyzed:* | 06.18.2020 20:19 | | 06.18.2020 20:39 | | 06.18.2020 20:59 | | 06.18.2020 21:20 | | 06.18.2020 22:42 | | 06.18.2020 23:02 | |
| | *Units/RL:* | 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 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00403 | 0.00403 | <0.00402 | 0.00402 | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 06.15.2020 10:57 | | 06.15.2020 11:50 | | 06.15.2020 11:50 | | 06.15.2020 11:50 | | 06.15.2020 11:50 | | 06.15.2020 11:50 | |
| | *Analyzed:* | 06.15.2020 16:32 | | 06.15.2020 12:08 | | 06.15.2020 12:26 | | 06.15.2020 12:33 | | 06.15.2020 12:39 | | 06.15.2020 12:45 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 8.57 | 4.97 | <4.95 | 4.95 | <5.02 | 5.02 | <4.99 | 4.99 | <5.04 | 5.04 | <4.95 | 4.95 |
| **TPH By SW8015 Mod** | *Extracted:* | 06.16.2020 12:15 | | 06.16.2020 12:15 | | 06.16.2020 12:15 | | 06.16.2020 12:15 | | 06.16.2020 12:15 | | 06.16.2020 12:15 | |
| | *Analyzed:* | 06.16.2020 14:24 | | 06.16.2020 14:45 | | 06.16.2020 15:07 | | 06.16.2020 15:29 | | 06.16.2020 15:50 | | 06.16.2020 16:12 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |

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Jessica Kramer
Project Manager

# Certificate of Analysis Summary 664339

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG - Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea County NM

**Date Received in Lab:** Fri 06.12.2020 14:24
**Report Date:** 06.19.2020 14:08
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 664339-109 | | 664339-110 | | | | | |
| | ***Field Id:*** | Bottomhole-369 Comp 3' | | Bottomhole-370 Comp 3' | | | | | |
| | ***Depth:*** | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | 06.12.2020 00:00 | | 06.12.2020 00:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 06.18.2020 17:00 | | 06.18.2020 17:00 | | | | | |
| | ***Analyzed:*** | 06.18.2020 23:22 | | 06.18.2020 23:43 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Toluene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| m,p-Xylenes | | <0.00401 | 0.00401 | <0.00402 | 0.00402 | | | | |
| o-Xylene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Total BTEX | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 06.15.2020 11:50 | | 06.15.2020 11:50 | | | | | |
| | ***Analyzed:*** | 06.15.2020 13:03 | | 06.15.2020 13:09 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | <4.95 | 4.95 | <4.95 | 4.95 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 06.16.2020 12:15 | | 06.16.2020 12:15 | | | | | |
| | ***Analyzed:*** | 06.16.2020 16:33 | | 06.16.2020 16:55 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | | | | |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | | | | |

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Jessica Kramer
Project Manager

# Analytical Report 664339

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG - Rattlesnake Reuse Pit**

**212C-MD-01974**

**06.19.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

06.19.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **664339**
**EOG - Rattlesnake Reuse Pit**
Project Address: Lea County NM

**Mike Carmona**:

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) 664339. 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. 664339 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,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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

# Sample Cross Reference 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| Bottomhole-261 Comp 2' | S | 06.12.2020 00:00 | | 664339-001 |
| Bottomhole-262 Comp 2' | S | 06.12.2020 00:00 | | 664339-002 |
| Bottomhole-263 Comp 2' | S | 06.12.2020 00:00 | | 664339-003 |
| Bottomhole-264 Comp 2' | S | 06.12.2020 00:00 | | 664339-004 |
| Bottomhole-265 Comp 2' | S | 06.12.2020 00:00 | | 664339-005 |
| Bottomhole-266 Comp 2' | S | 06.12.2020 00:00 | | 664339-006 |
| Bottomhole-267 Comp 2' | S | 06.12.2020 00:00 | | 664339-007 |
| Bottomhole-268 Comp 2' | S | 06.12.2020 00:00 | | 664339-008 |
| Bottomhole-269 Comp 2' | S | 06.12.2020 00:00 | | 664339-009 |
| Bottomhole-270Comp 2' | S | 06.12.2020 00:00 | | 664339-010 |
| Bottomhole-271 Comp 2' | S | 06.12.2020 00:00 | | 664339-011 |
| Bottomhole-272 Comp 2' | S | 06.12.2020 00:00 | | 664339-012 |
| Bottomhole-273 Comp 3' | S | 06.12.2020 00:00 | | 664339-013 |
| Bottomhole-274 Comp 3' | S | 06.12.2020 00:00 | | 664339-014 |
| Bottomhole-275 Comp 3' | S | 06.12.2020 00:00 | | 664339-015 |
| Bottomhole-276 Comp 3' | S | 06.12.2020 00:00 | | 664339-016 |
| Bottomhole-277 Comp 3' | S | 06.12.2020 00:00 | | 664339-017 |
| Bottomhole-278 Comp 3' | S | 06.12.2020 00:00 | | 664339-018 |
| Bottomhole-279 Comp 3' | S | 06.12.2020 00:00 | | 664339-019 |
| Bottomhole-280 Comp 3' | S | 06.12.2020 00:00 | | 664339-020 |
| Bottomhole-281 Comp 3' | S | 06.12.2020 00:00 | | 664339-021 |
| Bottomhole-282 Comp 3' | S | 06.12.2020 00:00 | | 664339-022 |
| Bottomhole-283 Comp 3' | S | 06.12.2020 00:00 | | 664339-023 |
| Bottomhole-284 Comp 3' | S | 06.12.2020 00:00 | | 664339-024 |
| Bottomhole-285 Comp 2' | S | 06.12.2020 00:00 | | 664339-025 |
| Bottomhole-286 Comp 2' | S | 06.12.2020 00:00 | | 664339-026 |
| Bottomhole-287 Comp 2' | S | 06.12.2020 00:00 | | 664339-027 |
| Bottomhole-288 Comp 2' | S | 06.12.2020 00:00 | | 664339-028 |
| Bottomhole-289 Comp 2' | S | 06.12.2020 00:00 | | 664339-029 |
| Bottomhole-290 Comp 2' | S | 06.12.2020 00:00 | | 664339-030 |
| Bottomhole-291 Comp 2' | S | 06.12.2020 00:00 | | 664339-031 |
| Bottomhole-292 Comp 2' | S | 06.12.2020 00:00 | | 664339-032 |
| Bottomhole-293 Comp 2' | S | 06.12.2020 00:00 | | 664339-033 |
| Bottomhole-294 Comp 2' | S | 06.12.2020 00:00 | | 664339-034 |
| Bottomhole-295 Comp 2' | S | 06.12.2020 00:00 | | 664339-035 |
| Bottomhole-296 Comp 2' | S | 06.12.2020 00:00 | | 664339-036 |
| Bottomhole-297 Comp 3' | S | 06.12.2020 00:00 | | 664339-037 |
| Bottomhole-298 Comp 3' | S | 06.12.2020 00:00 | | 664339-038 |
| Bottomhole-299 Comp 3' | S | 06.12.2020 00:00 | | 664339-039 |
| Bottomhole-300 Comp 3' | S | 06.12.2020 00:00 | | 664339-040 |
| Bottomhole-301 Comp 3' | S | 06.12.2020 00:00 | | 664339-041 |
| Bottomhole-302 Comp 3' | S | 06.12.2020 00:00 | | 664339-042 |
| Bottomhole-303 Comp 3' | S | 06.12.2020 00:00 | | 664339-043 |

# Sample Cross Reference 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | |
|---|---|---|---|
| Bottomhole-304 Comp 3' | S | 06.12.2020 00:00 | 664339-044 |
| Bottomhole-305 Comp 3' | S | 06.12.2020 00:00 | 664339-045 |
| Bottomhole-306 Comp 3' | S | 06.12.2020 00:00 | 664339-046 |
| Bottomhole-307 Comp 3' | S | 06.12.2020 00:00 | 664339-047 |
| Bottomhole-308 Comp 3' | S | 06.12.2020 00:00 | 664339-048 |
| Bottomhole-309 Comp 2' | S | 06.12.2020 00:00 | 664339-049 |
| Bottomhole-310 Comp 2' | S | 06.12.2020 00:00 | 664339-050 |
| Bottomhole-311 Comp 2' | S | 06.12.2020 00:00 | 664339-051 |
| Bottomhole-312 Comp 2' | S | 06.12.2020 00:00 | 664339-052 |
| Bottomhole-313 Comp 2' | S | 06.12.2020 00:00 | 664339-053 |
| Bottomhole-314 Comp 2' | S | 06.12.2020 00:00 | 664339-054 |
| Bottomhole-315 Comp 2' | S | 06.12.2020 00:00 | 664339-055 |
| Bottomhole-316 Comp 2' | S | 06.12.2020 00:00 | 664339-056 |
| Bottomhole-317 Comp 2' | S | 06.12.2020 00:00 | 664339-057 |
| Bottomhole-318 Comp 2' | S | 06.12.2020 00:00 | 664339-058 |
| Bottomhole-319 Comp 2' | S | 06.12.2020 00:00 | 664339-059 |
| Bottomhole-320 Comp 2' | S | 06.12.2020 00:00 | 664339-060 |
| Bottomhole-321 Comp 3' | S | 06.12.2020 00:00 | 664339-061 |
| Bottomhole-322 Comp 3' | S | 06.12.2020 00:00 | 664339-062 |
| Bottomhole-323 Comp 3' | S | 06.12.2020 00:00 | 664339-063 |
| Bottomhole-324 Comp 3' | S | 06.12.2020 00:00 | 664339-064 |
| Bottomhole-325 Comp 3' | S | 06.12.2020 00:00 | 664339-065 |
| Bottomhole-326 Comp 3' | S | 06.12.2020 00:00 | 664339-066 |
| Bottomhole-327 Comp 3' | S | 06.12.2020 00:00 | 664339-067 |
| Bottomhole-328 Comp 3' | S | 06.12.2020 00:00 | 664339-068 |
| Bottomhole-329 Comp 3' | S | 06.12.2020 00:00 | 664339-069 |
| Bottomhole-330 Comp 3' | S | 06.12.2020 00:00 | 664339-070 |
| Bottomhole-331 Comp 2' | S | 06.12.2020 00:00 | 664339-071 |
| Bottomhole-332 Comp 2' | S | 06.12.2020 00:00 | 664339-072 |
| Bottomhole-333 Comp 2' | S | 06.12.2020 00:00 | 664339-073 |
| Bottomhole-334 Comp 2' | S | 06.12.2020 00:00 | 664339-074 |
| Bottomhole-335 Comp 2' | S | 06.12.2020 00:00 | 664339-075 |
| Bottomhole-336 Comp 2' | S | 06.12.2020 00:00 | 664339-076 |
| Bottomhole-337 Comp 2' | S | 06.12.2020 00:00 | 664339-077 |
| Bottomhole-338 Comp 2' | S | 06.12.2020 00:00 | 664339-078 |
| Bottomhole-339 Comp 2' | S | 06.12.2020 00:00 | 664339-079 |
| Bottomhole-340 Comp 2' | S | 06.12.2020 00:00 | 664339-080 |
| Bottomhole-341 Comp 3' | S | 06.12.2020 00:00 | 664339-081 |
| Bottomhole-342 Comp 3' | S | 06.12.2020 00:00 | 664339-082 |
| Bottomhole-343 Comp 3' | S | 06.12.2020 00:00 | 664339-083 |
| Bottomhole-344 Comp 3' | S | 06.12.2020 00:00 | 664339-084 |
| Bottomhole-345 Comp 3' | S | 06.12.2020 00:00 | 664339-085 |
| Bottomhole-346 Comp 3' | S | 06.12.2020 00:00 | 664339-086 |
| Bottomhole-347 Comp 3' | S | 06.12.2020 00:00 | 664339-087 |

# Sample Cross Reference 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | |
|---|---|---|---|
| Bottomhole-348 Comp 3' | S | 06.12.2020 00:00 | 664339-088 |
| Bottomhole-349 Comp 3' | S | 06.12.2020 00:00 | 664339-089 |
| Bottomhole-350 Comp 3' | S | 06.12.2020 00:00 | 664339-090 |
| Bottomhole-351 Comp 2' | S | 06.12.2020 00:00 | 664339-091 |
| Bottomhole-352 Comp 2' | S | 06.12.2020 00:00 | 664339-092 |
| Bottomhole-353 Comp 2' | S | 06.12.2020 00:00 | 664339-093 |
| Bottomhole-354 Comp 2' | S | 06.12.2020 00:00 | 664339-094 |
| Bottomhole-355 Comp 2' | S | 06.12.2020 00:00 | 664339-095 |
| Bottomhole-356 Comp 2' | S | 06.12.2020 00:00 | 664339-096 |
| Bottomhole-357 Comp 2' | S | 06.12.2020 00:00 | 664339-097 |
| Bottomhole-358 Comp 2' | S | 06.12.2020 00:00 | 664339-098 |
| Bottomhole-359 Comp 2' | S | 06.12.2020 00:00 | 664339-099 |
| Bottomhole-360 Comp 2' | S | 06.12.2020 00:00 | 664339-100 |
| Bottomhole-361 Comp 3' | S | 06.12.2020 00:00 | 664339-101 |
| Bottomhole-362 Comp 3' | S | 06.12.2020 00:00 | 664339-102 |
| Bottomhole-363 Comp 3' | S | 06.12.2020 00:00 | 664339-103 |
| Bottomhole-364 Comp 3' | S | 06.12.2020 00:00 | 664339-104 |
| Bottomhole-365 Comp 3' | S | 06.12.2020 00:00 | 664339-105 |
| Bottomhole-366 Comp 3' | S | 06.12.2020 00:00 | 664339-106 |
| Bottomhole-367 Comp 3' | S | 06.12.2020 00:00 | 664339-107 |
| Bottomhole-368 Comp 3' | S | 06.12.2020 00:00 | 664339-108 |
| Bottomhole-369 Comp 3' | S | 06.12.2020 00:00 | 664339-109 |
| Bottomhole-370 Comp 3' | S | 06.12.2020 00:00 | 664339-110 |

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG - Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *664339*

Report Date: *06.19.2020*
Date Received: *06.12.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3129045 Inorganic Anions by EPA 300/300.1

Lab Sample ID 664362-001 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: 664339-104, -105, -106, -107, -108, -109, -110.

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

Batch: LBA-3129287 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 664339-001,664339-014,664339-012.

Batch: LBA-3129289 BTEX by EPA 8021B

Lab Sample ID 664339-021 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene 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: 664339-021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040.

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

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 664339-023,664339-028,664339-040,664339-032,664339-038,664339-029.

Batch: LBA-3129294 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 664339-041 SD,664339-056,664339-054,664339-055,664339-052,664339-053.

Batch: LBA-3129350 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 664339-061 SD,664339-062,664339-063,664339-064,664339-065,664339-066,664339-067,664339-070,664339-071,664339-072,664339-073,664339-074,664339-075,664339-076,664339-061.

# CASE NARRATIVE



***Client Name: Tetra Tech- Midland***

***Project Name: EOG - Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *664339*

Report Date: *06.19.2020*
Date Received: *06.12.2020*

Batch: LBA-3129409 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7705778-1-BKS,7705778-1-BLK,7705778-1-BSD,664339-101 S,664339-101 SD,664339-102,664339-103,664339-104,664339-105,664339-106,664339-107,664339-108,664339-109,664339-110,664339-099,664339-098,664339-097,664339-101,664339-100.

Batch: LBA-3129411 BTEX by EPA 8021B

Lab Sample ID 664339-081 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 664339-077, -078, -079, -080, -081, -082, -083, -084, -085, -086, -087, -088, -089, -090, -091, -092, -093, -094, -095, -096.
The Laboratory Control Sample for Benzene is within laboratory Control Limits, therefore the data was accepted.

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-261 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-001 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.12.2020 16:15 Basis: Wet Weight

Seq Number: 3128895

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **34.1** | 5.00 | mg/kg | 06.13.2020 02:17 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.13.2020 09:00 Basis: Wet Weight

Seq Number: 3128940

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 13:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 13:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 13:32 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 13:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 06.13.2020 13:32 | |
| o-Terphenyl | 84-15-1 | 108 | % | 70-130 | 06.13.2020 13:32 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-261 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-001 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 11:01 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 11:01 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 11:01 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.17.2020 11:01 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 11:01 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 11:01 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.17.2020 11:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 06.17.2020 11:01 | |
| 4-Bromofluorobenzene | 460-00-4 | 135 | % | 70-130 | 06.17.2020 11:01 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-262 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-002 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.12.2020 16:15 Basis: Wet Weight

Seq Number: 3128895

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **19.5** | 5.02 | mg/kg | 06.13.2020 02:22 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.13.2020 09:00 Basis: Wet Weight

Seq Number: 3128940

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 14:31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 14:31 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 14:31 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 14:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 06.13.2020 14:31 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 06.13.2020 14:31 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-262 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-002 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 11:21 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 11:21 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 11:21 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.17.2020 11:21 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 11:21 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 11:21 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.17.2020 11:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 129 | % | 70-130 | 06.17.2020 11:21 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 06.17.2020 11:21 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-263 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-003 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 16:15 | Basis: | Wet Weight |
| Seq Number: | 3128895 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **86.8** | 4.98 | mg/kg | 06.13.2020 02:27 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.13.2020 14:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.13.2020 14:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.13.2020 14:50 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.13.2020 14:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 06.13.2020 14:50 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 06.13.2020 14:50 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-263 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-003 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 11:42 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 11:42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 11:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.17.2020 11:42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 11:42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 11:42 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.17.2020 11:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 06.17.2020 11:42 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 06.17.2020 11:42 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-264 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-004 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.12.2020 17:30 Basis: Wet Weight

Seq Number: 3128896

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **79.6** | 5.05 | mg/kg | 06.12.2020 21:12 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.13.2020 09:00 Basis: Wet Weight

Seq Number: 3128940

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 15:10 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 15:10 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 15:10 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 15:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 06.13.2020 15:10 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-130 | 06.13.2020 15:10 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-264 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-004 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 12:03 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 12:03 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 12:03 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.17.2020 12:03 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 12:03 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 12:03 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.17.2020 12:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 06.17.2020 12:03 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 06.17.2020 12:03 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-265 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-005 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **45.5** | 5.02 | mg/kg | 06.12.2020 21:30 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.13.2020 15:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.13.2020 15:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.13.2020 15:30 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.13.2020 15:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.13.2020 15:30 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 06.13.2020 15:30 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-265 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-005 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:23 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.17.2020 12:23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:23 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 06.17.2020 12:23 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 06.17.2020 12:23 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-266 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-006 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **41.3** | 4.98 | mg/kg | 06.12.2020 21:36 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.13.2020 15:49 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.13.2020 15:49 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.13.2020 15:49 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.13.2020 15:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 112 | % | 70-130 | 06.13.2020 15:49 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 06.13.2020 15:49 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-266 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-006 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:44 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:44 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.17.2020 12:44 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:44 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:44 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.17.2020 12:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 06.17.2020 12:44 | |
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 06.17.2020 12:44 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-267 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-007 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.12.2020 17:30 Basis: Wet Weight

Seq Number: 3128896

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **15.0** | 4.96 | mg/kg | 06.12.2020 21:42 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.13.2020 09:00 Basis: Wet Weight

Seq Number: 3128940

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 16:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 16:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 16:09 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 16:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.13.2020 16:09 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 06.13.2020 16:09 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-267 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-007 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 13:05 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 13:05 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 13:05 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 06.17.2020 13:05 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 13:05 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 13:05 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 06.17.2020 13:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 06.17.2020 13:05 | |
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 06.17.2020 13:05 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-268 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-008 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.12.2020 17:30 Basis: Wet Weight

Seq Number: 3128896

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **46.2** | 5.00 | mg/kg | 06.12.2020 21:49 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.13.2020 09:00 Basis: Wet Weight

Seq Number: 3128940

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 16:28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 16:28 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 16:28 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 16:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 06.13.2020 16:28 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-130 | 06.13.2020 16:28 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-268 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-008 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 13:25 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 13:25 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 13:25 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.17.2020 13:25 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 13:25 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 13:25 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.17.2020 13:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 06.17.2020 13:25 | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 06.17.2020 13:25 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-269 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-009 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **62.3** | 4.95 | mg/kg | 06.12.2020 22:07 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.13.2020 16:47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.13.2020 16:47 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.13.2020 16:47 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.13.2020 16:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.13.2020 16:47 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 06.13.2020 16:47 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-269 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-009 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 13:46 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 13:46 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 13:46 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.17.2020 13:46 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 13:46 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 13:46 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.17.2020 13:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 111 | % | 70-130 | 06.17.2020 13:46 | |
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 06.17.2020 13:46 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-270Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-010 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **107** | 4.95 | mg/kg | 06.12.2020 22:13 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 17:06 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 17:06 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 17:06 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 17:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.13.2020 17:06 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.13.2020 17:06 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-270Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-010 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 14:07 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 14:07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 14:07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.17.2020 14:07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 14:07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 14:07 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.17.2020 14:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 128 | % | 70-130 | 06.17.2020 14:07 | |
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 06.17.2020 14:07 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-271 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-011 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **35.1** | 5.04 | mg/kg | 06.12.2020 22:19 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 17:43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 17:43 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 17:43 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 17:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 06.13.2020 17:43 | |
| o-Terphenyl | 84-15-1 | 108 | % | 70-130 | 06.13.2020 17:43 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-271 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-011 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:28 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:28 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:28 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.17.2020 15:28 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:28 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:28 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 06.17.2020 15:28 | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 06.17.2020 15:28 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-272 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-012 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **84.8** | 4.98 | mg/kg | 06.12.2020 22:26 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.13.2020 18:02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.13.2020 18:02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.13.2020 18:02 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.13.2020 18:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 06.13.2020 18:02 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 06.13.2020 18:02 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-272 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-012 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:48 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:48 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:48 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.17.2020 15:48 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:48 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:48 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.17.2020 15:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 134 | % | 70-130 | 06.17.2020 15:48 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 06.17.2020 15:48 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-273 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-013 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **25.2** | 5.00 | mg/kg | 06.12.2020 22:32 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 18:21 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 18:21 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 18:21 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 18:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-130 | 06.13.2020 18:21 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.13.2020 18:21 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-273 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-013 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 16:19 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 16:19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 16:19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 06.17.2020 16:19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 16:19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 06.17.2020 16:19 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 06.17.2020 16:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 06.17.2020 16:19 | |
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 06.17.2020 16:19 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-274 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-014 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **47.2** | 4.97 | mg/kg | 06.12.2020 22:38 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 18:39 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 18:39 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 18:39 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 18:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.13.2020 18:39 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 06.13.2020 18:39 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-274 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-014 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 16:39 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 16:39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 16:39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.17.2020 16:39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 16:39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 16:39 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.17.2020 16:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 06.17.2020 16:39 | |
| 4-Bromofluorobenzene | 460-00-4 | 131 | % | 70-130 | 06.17.2020 16:39 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-275 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-015 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **82.8** | 5.01 | mg/kg | 06.12.2020 22:56 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.13.2020 18:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.13.2020 18:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.13.2020 18:58 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.13.2020 18:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 06.13.2020 18:58 | |
| o-Terphenyl | 84-15-1 | 108 | % | 70-130 | 06.13.2020 18:58 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-275 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-015 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 17:00 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 17:00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 17:00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.17.2020 17:00 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 17:00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 17:00 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.17.2020 17:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 06.17.2020 17:00 | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 06.17.2020 17:00 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-276 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-016 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **61.8** | 4.96 | mg/kg | 06.12.2020 23:02 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.13.2020 19:17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.13.2020 19:17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.13.2020 19:17 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.13.2020 19:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 06.13.2020 19:17 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 06.13.2020 19:17 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-276 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-016 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:20 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:20 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:20 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.17.2020 17:20 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:20 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:20 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 06.17.2020 17:20 | |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 06.17.2020 17:20 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-277 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-017 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **56.8** | 4.99 | mg/kg | 06.12.2020 23:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 19:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 19:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 19:36 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 19:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.13.2020 19:36 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 06.13.2020 19:36 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-277 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-017 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:41 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.17.2020 17:41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:41 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.17.2020 17:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 06.17.2020 17:41 | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 06.17.2020 17:41 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-278 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-018 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **27.9** | 5.05 | mg/kg | 06.12.2020 23:27 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 19:55 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 19:55 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 19:55 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 19:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.13.2020 19:55 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 06.13.2020 19:55 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-278 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-018 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 18:01 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 18:01 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 18:01 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.17.2020 18:01 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 18:01 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.17.2020 18:01 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.17.2020 18:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 06.17.2020 18:01 | |
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 06.17.2020 18:01 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-279 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-019 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **20.2** | 5.00 | mg/kg | 06.12.2020 23:33 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.13.2020 20:13 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.13.2020 20:13 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.13.2020 20:13 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.13.2020 20:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.13.2020 20:13 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.13.2020 20:13 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-279 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-019 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 18:22 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 18:22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 18:22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.17.2020 18:22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 18:22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 18:22 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.17.2020 18:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 06.17.2020 18:22 | |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.17.2020 18:22 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-280 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-020 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **28.7** | 4.95 | mg/kg | 06.12.2020 23:39 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.13.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3128940 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.13.2020 20:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.13.2020 20:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.13.2020 20:32 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.13.2020 20:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.13.2020 20:32 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.13.2020 20:32 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-280 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-020 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:30 | Basis: | Wet Weight |
| Seq Number: | 3129287 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 18:42 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 18:42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 18:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.17.2020 18:42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 18:42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 18:42 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.17.2020 18:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 06.17.2020 18:42 | |
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 06.17.2020 18:42 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-281 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-021 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **50.7** | 5.02 | mg/kg | 06.12.2020 23:45 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 12:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 12:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 12:50 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 12:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-130 | 06.15.2020 12:50 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 06.15.2020 12:50 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-281 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-021 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 21:46 | UX | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 21:46 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 21:46 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.17.2020 21:46 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 21:46 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 21:46 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.17.2020 21:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 06.17.2020 21:46 | |
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 06.17.2020 21:46 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-282 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-022 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:30 | Basis: | Wet Weight |
| Seq Number: | 3128896 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **27.9** | 4.98 | mg/kg | 06.12.2020 23:52 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 13:54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 13:54 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 13:54 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 13:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 06.15.2020 13:54 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 06.15.2020 13:54 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-282 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-022 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:06 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:06 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:06 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.17.2020 22:06 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:06 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:06 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.17.2020 22:06 | |
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 06.17.2020 22:06 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-283 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-023 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.12.2020 17:30 Basis: Wet Weight

Seq Number: 3128896

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **64.3** | 4.98 | mg/kg | 06.12.2020 23:58 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight

Seq Number: 3129072

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 14:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:15 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 06.15.2020 14:15 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 06.15.2020 14:15 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-283 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-023 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 22:27 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 22:27 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 22:27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.17.2020 22:27 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 22:27 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 22:27 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.17.2020 22:27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 06.17.2020 22:27 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 06.17.2020 22:27 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-284 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-024 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **31.2** | 5.00 | mg/kg | 06.13.2020 02:57 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 14:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 14:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 14:36 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 14:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 06.15.2020 14:36 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 06.15.2020 14:36 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-284 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-024 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:47 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:47 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:47 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.17.2020 22:47 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:47 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:47 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.17.2020 22:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 06.17.2020 22:47 | |
| 1,4-Difluorobenzene | 540-36-3 | 90 | % | 70-130 | 06.17.2020 22:47 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-285 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-025 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **19.0** | 4.97 | mg/kg | 06.13.2020 03:13 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 14:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:57 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 06.15.2020 14:57 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 06.15.2020 14:57 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-285 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-025 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 23:08 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 23:08 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 23:08 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.17.2020 23:08 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 23:08 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.17.2020 23:08 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.17.2020 23:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 06.17.2020 23:08 | |
| 4-Bromofluorobenzene | 460-00-4 | 130 | % | 70-130 | 06.17.2020 23:08 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-286 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-026 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **85.2** | 5.00 | mg/kg | 06.13.2020 03:18 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 15:23 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 15:23 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 15:23 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 15:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 06.15.2020 15:23 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 06.15.2020 15:23 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-286 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-026 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 23:28 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 23:28 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 23:28 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.17.2020 23:28 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 23:28 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 23:28 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.17.2020 23:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 06.17.2020 23:28 | |
| 4-Bromofluorobenzene | 460-00-4 | 130 | % | 70-130 | 06.17.2020 23:28 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-287 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-027 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **99.5** | 4.99 | mg/kg | 06.13.2020 03:23 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.15.2020 15:44 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.15.2020 15:44 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.15.2020 15:44 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.15.2020 15:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-130 | 06.15.2020 15:44 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 06.15.2020 15:44 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-287 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-027 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 23:48 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 23:48 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 23:48 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.17.2020 23:48 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 23:48 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.17.2020 23:48 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.17.2020 23:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 06.17.2020 23:48 | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 06.17.2020 23:48 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-288 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-028 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: CHE Date Prep: 06.12.2020 17:45 Basis: Wet Weight

Seq Number: 3128898

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **13.3** | 5.04 | mg/kg | 06.13.2020 03:28 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight

Seq Number: 3129072

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 16:05 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 16:05 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 16:05 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 16:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-130 | 06.15.2020 16:05 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 06.15.2020 16:05 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-288 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-028 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:09 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.18.2020 00:09 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:09 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:09 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 131 | % | 70-130 | 06.18.2020 00:09 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 06.18.2020 00:09 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-289 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-029 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **12.0** | 4.98 | mg/kg | 06.13.2020 03:43 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 16:26 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 16:26 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 16:26 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 16:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 06.15.2020 16:26 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.15.2020 16:26 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-289 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-029 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 00:29 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 00:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 00:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.18.2020 00:29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 00:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 00:29 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 00:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 06.18.2020 00:29 | |
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 06.18.2020 00:29 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-290 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-030 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **75.0** | 5.00 | mg/kg | 06.13.2020 03:48 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.15.2020 16:48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.15.2020 16:48 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.15.2020 16:48 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.15.2020 16:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.15.2020 16:48 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-130 | 06.15.2020 16:48 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-290 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-030 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:50 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 00:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:50 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 06.18.2020 00:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 06.18.2020 00:50 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-291 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-031 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.7** | 4.96 | mg/kg | 06.13.2020 03:53 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 17:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 17:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 17:30 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 17:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 06.15.2020 17:30 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.15.2020 17:30 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-291 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-031 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 02:12 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 02:12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 02:12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 02:12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 02:12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 02:12 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 02:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 06.18.2020 02:12 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 06.18.2020 02:12 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-292 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-032 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **21.4** | 5.03 | mg/kg | 06.13.2020 03:58 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 17:52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 17:52 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 17:52 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 17:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.15.2020 17:52 | |
| o-Terphenyl | 84-15-1 | 108 | % | 70-130 | 06.15.2020 17:52 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-292 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-032 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:33 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.18.2020 02:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:33 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 133 | % | 70-130 | 06.18.2020 02:33 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 06.18.2020 02:33 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-293 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-033 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: CHE Date Prep: 06.12.2020 17:45 Basis: Wet Weight

Seq Number: 3128898

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.1** | 5.05 | mg/kg | 06.13.2020 04:03 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight

Seq Number: 3129072

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:13 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 18:13 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:13 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.15.2020 18:13 | |
| o-Terphenyl | 84-15-1 | 108 | % | 70-130 | 06.15.2020 18:13 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-293 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-033 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:53 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.18.2020 02:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:53 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 06.18.2020 02:53 | |
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 06.18.2020 02:53 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-294 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-034 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.9** | 4.98 | mg/kg | 06.13.2020 04:08 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:34 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 18:34 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:34 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 06.15.2020 18:34 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.15.2020 18:34 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-294 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-034 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 03:14 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 03:14 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 03:14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.18.2020 03:14 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 03:14 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 03:14 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 03:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 129 | % | 70-130 | 06.18.2020 03:14 | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 06.18.2020 03:14 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-295 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-035 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.7** | 5.00 | mg/kg | 06.13.2020 04:23 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:56 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 18:56 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:56 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 06.15.2020 18:56 | |
| o-Terphenyl | 84-15-1 | 111 | % | 70-130 | 06.15.2020 18:56 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-295 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-035 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:34 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.18.2020 03:34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:34 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 03:34 | |
| 4-Bromofluorobenzene | 460-00-4 | 130 | % | 70-130 | 06.18.2020 03:34 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-296 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-036 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **17.4** | 4.97 | mg/kg | 06.13.2020 04:28 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 19:17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 19:17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 19:17 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 19:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 06.15.2020 19:17 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-130 | 06.15.2020 19:17 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-296 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-036 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:54 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.18.2020 03:54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:54 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 03:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 06.18.2020 03:54 | |
| 4-Bromofluorobenzene | 460-00-4 | 129 | % | 70-130 | 06.18.2020 03:54 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-297 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-037 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **80.6** | 4.95 | mg/kg | 06.13.2020 04:44 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 19:39 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 19:39 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 19:39 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 19:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 06.15.2020 19:39 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-130 | 06.15.2020 19:39 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-297 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-037 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:15 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 04:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:15 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 06.18.2020 04:15 | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 06.18.2020 04:15 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-298 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-038 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **84.7** | 5.04 | mg/kg | 06.13.2020 04:49 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 20:00 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 20:00 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 20:00 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 20:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 06.15.2020 20:00 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.15.2020 20:00 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-298 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-038 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 04:35 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 04:35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 04:35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 06.18.2020 04:35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 04:35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 04:35 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 06.18.2020 04:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 06.18.2020 04:35 | |
| 4-Bromofluorobenzene | 460-00-4 | 133 | % | 70-130 | 06.18.2020 04:35 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-299 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-039 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **84.0** | 4.98 | mg/kg | 06.13.2020 04:54 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 20:21 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 20:21 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 20:21 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 20:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 06.15.2020 20:21 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-130 | 06.15.2020 20:21 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-299 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-039 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:56 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:56 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:56 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 04:56 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:56 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:56 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 04:56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 129 | % | 70-130 | 06.18.2020 04:56 | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 06.18.2020 04:56 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-300 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-040 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **79.0** | 4.96 | mg/kg | 06.13.2020 04:59 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129072 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 20:42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 20:42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 20:42 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 20:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.15.2020 20:42 | |
| o-Terphenyl | 84-15-1 | 108 | % | 70-130 | 06.15.2020 20:42 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-300 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-040 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 08:45 | Basis: | Wet Weight |
| Seq Number: | 3129289 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 05:16 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 05:16 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 05:16 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 05:16 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 05:16 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 05:16 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 05:16 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 06.18.2020 05:16 | |
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 06.18.2020 05:16 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-301 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-041 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.8** | 5.00 | mg/kg | 06.13.2020 05:04 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 12:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 12:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 12:50 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 12:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.15.2020 12:50 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 06.15.2020 12:50 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-301 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-041 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 19:29 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 19:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 19:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.17.2020 19:29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 19:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.17.2020 19:29 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.17.2020 19:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 06.17.2020 19:29 | |
| 1,4-Difluorobenzene | 540-36-3 | 90 | % | 70-130 | 06.17.2020 19:29 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-302 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-042 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **113** | 5.00 | mg/kg | 06.13.2020 05:09 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 13:54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 13:54 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 13:54 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 13:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 06.15.2020 13:54 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 06.15.2020 13:54 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-302 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-042 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.19.2020 01:40 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.19.2020 01:40 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.19.2020 01:40 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.19.2020 01:40 | U | 1 |
| o-Xylene | 95-47-6 | <0.000990 | 0.000990 | mg/kg | 06.19.2020 01:40 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000990 | 0.000990 | mg/kg | 06.19.2020 01:40 | U | 1 |
| Total BTEX | | <0.000990 | 0.000990 | mg/kg | 06.19.2020 01:40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 06.19.2020 01:40 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-303 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-043 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 17:45 | Basis: | Wet Weight |
| Seq Number: | 3128898 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **94.3** | 5.00 | mg/kg | 06.13.2020 05:14 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 14:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:15 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.15.2020 14:15 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 06.15.2020 14:15 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-303 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-043 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.19.2020 02:00 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.19.2020 02:00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.19.2020 02:00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.19.2020 02:00 | U | 1 |
| o-Xylene | 95-47-6 | <0.000996 | 0.000996 | mg/kg | 06.19.2020 02:00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000996 | 0.000996 | mg/kg | 06.19.2020 02:00 | U | 1 |
| Total BTEX | | <0.000996 | 0.000996 | mg/kg | 06.19.2020 02:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 06.19.2020 02:00 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-304 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-044 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **90.8** | 5.02 | mg/kg | 06.13.2020 05:44 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 14:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 14:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 14:36 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 14:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.15.2020 14:36 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 06.15.2020 14:36 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-304 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-044 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:21 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:21 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:21 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.19.2020 02:21 | U | 1 |
| o-Xylene | 95-47-6 | <0.000998 | 0.000998 | mg/kg | 06.19.2020 02:21 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000998 | 0.000998 | mg/kg | 06.19.2020 02:21 | U | 1 |
| Total BTEX | | <0.000998 | 0.000998 | mg/kg | 06.19.2020 02:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 06.19.2020 02:21 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-305 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-045 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **17.6** | 4.98 | mg/kg | 06.13.2020 06:00 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 14:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:57 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 14:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 06.15.2020 14:57 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 06.15.2020 14:57 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-305 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-045 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:41 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.19.2020 02:41 | U | 1 |
| o-Xylene | 95-47-6 | <0.000998 | 0.000998 | mg/kg | 06.19.2020 02:41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000998 | 0.000998 | mg/kg | 06.19.2020 02:41 | U | 1 |
| Total BTEX | | <0.000998 | 0.000998 | mg/kg | 06.19.2020 02:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 06.19.2020 02:41 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-306 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-046 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **19.8** | 5.00 | mg/kg | 06.13.2020 06:05 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.15.2020 15:23 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.15.2020 15:23 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.15.2020 15:23 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.15.2020 15:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 06.15.2020 15:23 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 06.15.2020 15:23 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-306 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-046 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129395 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 03:02 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 03:02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 03:02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.19.2020 03:02 | U | 1 |
| o-Xylene | 95-47-6 | <0.000998 | 0.000998 | mg/kg | 06.19.2020 03:02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000998 | 0.000998 | mg/kg | 06.19.2020 03:02 | U | 1 |
| Total BTEX | | <0.000998 | 0.000998 | mg/kg | 06.19.2020 03:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 06.19.2020 03:02 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-307 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-047 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **19.9** | 5.04 | mg/kg | 06.13.2020 06:10 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 15:44 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 15:44 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 15:44 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 15:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 06.15.2020 15:44 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 06.15.2020 15:44 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-307 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-047 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:25 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:25 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:25 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.19.2020 02:25 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:25 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:25 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.19.2020 02:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 138 | % | 70-130 | 06.19.2020 02:25 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 06.19.2020 02:25 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-308 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-048 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **90.2** | 4.95 | mg/kg | 06.13.2020 06:15 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.15.2020 16:05 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.15.2020 16:05 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.15.2020 16:05 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.15.2020 16:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 06.15.2020 16:05 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 06.15.2020 16:05 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-308 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-048 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:15 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.18.2020 00:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:15 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 06.18.2020 00:15 | |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 06.18.2020 00:15 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-309 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-049 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **34.7** | 5.00 | mg/kg | 06.13.2020 06:30 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 16:26 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 16:26 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 16:26 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 16:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 06.15.2020 16:26 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 06.15.2020 16:26 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-309 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-049 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:35 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.18.2020 00:35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:35 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 00:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 90 | % | 70-130 | 06.18.2020 00:35 | |
| 4-Bromofluorobenzene | 460-00-4 | 130 | % | 70-130 | 06.18.2020 00:35 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-310 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-050 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.12.2020 18:15 Basis: Wet Weight

Seq Number: 3128899

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **31.8** | 5.03 | mg/kg | 06.13.2020 06:35 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight

Seq Number: 3129074

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 16:48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 16:48 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 16:48 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 16:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 06.15.2020 16:48 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 06.15.2020 16:48 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-310 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-050 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:55 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 00:55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:55 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 00:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 06.18.2020 00:55 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 06.18.2020 00:55 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-311 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-051 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **19.5** | 4.98 | mg/kg | 06.13.2020 06:40 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 17:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 17:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 17:30 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 17:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 06.15.2020 17:30 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 06.15.2020 17:30 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-311 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-051 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:16 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:16 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:16 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 01:16 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:16 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:16 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:16 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 06.18.2020 01:16 | |
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 06.18.2020 01:16 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-312 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-052 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **23.8** | 4.95 | mg/kg | 06.13.2020 06:45 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 17:52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 17:52 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 17:52 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 17:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-130 | 06.15.2020 17:52 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 06.15.2020 17:52 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-312 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-052 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:36 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:36 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:36 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 01:36 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:36 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:36 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 01:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 06.18.2020 01:36 | |
| 4-Bromofluorobenzene | 460-00-4 | 137 | % | 70-130 | 06.18.2020 01:36 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-313 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-053 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **32.7** | 5.04 | mg/kg | 06.13.2020 06:50 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:13 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 18:13 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:13 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 06.15.2020 18:13 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 06.15.2020 18:13 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-313 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-053 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 01:56 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 01:56 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 01:56 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 01:56 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 01:56 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 01:56 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 01:56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 137 | % | 70-130 | 06.18.2020 01:56 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 06.18.2020 01:56 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-314 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-054 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **18.6** | 5.00 | mg/kg | 06.13.2020 06:55 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 18:34 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 18:34 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 18:34 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 18:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 06.15.2020 18:34 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 06.15.2020 18:34 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-314 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-054 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:17 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:17 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:17 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 02:17 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:17 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:17 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 02:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 139 | % | 70-130 | 06.18.2020 02:17 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 06.18.2020 02:17 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-315 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-055 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **34.6** | 4.98 | mg/kg | 06.13.2020 07:10 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:56 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 18:56 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:56 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 18:56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 06.15.2020 18:56 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 06.15.2020 18:56 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-315 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-055 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:37 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:37 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.18.2020 02:37 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:37 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:37 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 133 | % | 70-130 | 06.18.2020 02:37 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 06.18.2020 02:37 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-316 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-056 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **37.0** | 4.96 | mg/kg | 06.13.2020 07:15 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 19:17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 19:17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 19:17 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 19:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 06.15.2020 19:17 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 06.15.2020 19:17 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-316 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-056 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3129294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:58 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:58 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:58 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.18.2020 02:58 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:58 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:58 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 02:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 139 | % | 70-130 | 06.18.2020 02:58 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 02:58 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-317 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-057 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **37.9** | 4.99 | mg/kg | 06.13.2020 07:31 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.15.2020 19:39 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.15.2020 19:39 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.15.2020 19:39 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.15.2020 19:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.15.2020 19:39 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 06.15.2020 19:39 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-317 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-057 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 06:19 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 06:19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 06:19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 06:19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 06:19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 06:19 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 06:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 06.18.2020 06:19 | |
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 06.18.2020 06:19 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-318 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-058 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **34.7** | 4.99 | mg/kg | 06.13.2020 07:36 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 20:00 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 20:00 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 20:00 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 20:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.15.2020 20:00 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 06.15.2020 20:00 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-318 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-058 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 06:39 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 06:39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 06:39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 06:39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 06:39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 06:39 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 06:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 06:39 | |
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 06.18.2020 06:39 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-319 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-059 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **38.8** | 4.97 | mg/kg | 06.13.2020 07:41 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 20:21 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 20:21 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 20:21 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 20:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.15.2020 20:21 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 06.15.2020 20:21 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-319 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-059 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:00 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 07:00 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:00 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 06.18.2020 07:00 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 06.18.2020 07:00 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-320 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-060 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **34.7** | 5.02 | mg/kg | 06.13.2020 07:46 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129074 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.15.2020 20:42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.15.2020 20:42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.15.2020 20:42 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.15.2020 20:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 06.15.2020 20:42 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 06.15.2020 20:42 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-320 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-060 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 07:20 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 07:20 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 07:20 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.18.2020 07:20 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 07:20 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 07:20 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 07:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 06.18.2020 07:20 | |
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 06.18.2020 07:20 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-321 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-061 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.12.2020 18:15 Basis: Wet Weight

Seq Number: 3128899

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **19.1** | 5.00 | mg/kg | 06.13.2020 07:51 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight

Seq Number: 3129073

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 22:29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 22:29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 22:29 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 22:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.15.2020 22:29 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 06.15.2020 22:29 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-321 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-061 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:41 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 07:41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:41 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 07:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 141 | % | 70-130 | 06.18.2020 07:41 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 07:41 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-322 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-062 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **19.0** | 4.95 | mg/kg | 06.13.2020 07:56 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 23:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 23:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 23:32 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 23:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.15.2020 23:32 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 06.15.2020 23:32 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-322 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-062 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:01 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:01 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:01 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.18.2020 08:01 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:01 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:01 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 143 | % | 70-130 | 06.18.2020 08:01 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 06.18.2020 08:01 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-323 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-063 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.12.2020 18:15 | Basis: | Wet Weight |
| Seq Number: | 3128899 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **27.6** | 4.97 | mg/kg | 06.13.2020 08:01 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 23:54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 23:54 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 23:54 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 23:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-130 | 06.15.2020 23:54 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-130 | 06.15.2020 23:54 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-323 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-063 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 08:21 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 08:21 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 08:21 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 08:21 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 08:21 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 08:21 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 08:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 06.18.2020 08:21 | |
| 4-Bromofluorobenzene | 460-00-4 | 138 | % | 70-130 | 06.18.2020 08:21 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-324 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-064 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **19.6** | 5.03 | mg/kg | 06.15.2020 11:18 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 00:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 00:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 00:15 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 00:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 06.16.2020 00:15 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 06.16.2020 00:15 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-324 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-064 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 08:42 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 08:42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 08:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.18.2020 08:42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 08:42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 08:42 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 08:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 135 | % | 70-130 | 06.18.2020 08:42 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 06.18.2020 08:42 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-325 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-065 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.15.2020 10:45 Basis: Wet Weight

Seq Number: 3129036

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **31.5** | 4.96 | mg/kg | 06.15.2020 11:34 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight

Seq Number: 3129073

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 00:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 00:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 00:36 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 00:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 06.16.2020 00:36 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 06.16.2020 00:36 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-325 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-065 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 09:02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 146 | % | 70-130 | 06.18.2020 09:02 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 06.18.2020 09:02 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-326 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-066 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **35.2** | 5.00 | mg/kg | 06.15.2020 11:39 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 00:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 00:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 00:57 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 00:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 06.16.2020 00:57 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 06.16.2020 00:57 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-326 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-066 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 09:23 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 09:23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 09:23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 09:23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 09:23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 09:23 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 09:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 139 | % | 70-130 | 06.18.2020 09:23 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 06.18.2020 09:23 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-327 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24
Lab Sample Id: 664339-067 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.15.2020 10:45 Basis: Wet Weight
Seq Number: 3129036

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **43.7** | 4.98 | mg/kg | 06.15.2020 11:44 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight
Seq Number: 3129073

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 01:18 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 01:18 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 01:18 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 01:18 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 01:18 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 06.16.2020 01:18 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-327 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-067 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:33 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 11:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:33 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 135 | % | 70-130 | 06.18.2020 11:33 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 06.18.2020 11:33 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-328 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-068 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **36.6** | 4.99 | mg/kg | 06.15.2020 11:49 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 01:40 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 01:40 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 01:40 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 01:40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 06.16.2020 01:40 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.16.2020 01:40 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-328 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-068 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 11:53 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 11:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 11:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.18.2020 11:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 11:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 11:53 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 11:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 128 | % | 70-130 | 06.18.2020 11:53 | |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 06.18.2020 11:53 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-329 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-069 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **21.2** | 5.02 | mg/kg | 06.15.2020 12:04 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 02:01 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 02:01 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 02:01 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 02:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 02:01 | |
| o-Terphenyl | 84-15-1 | 115 | % | 70-130 | 06.16.2020 02:01 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-329 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-069 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 12:13 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 12:13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 12:13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 12:13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 12:13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 12:13 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 12:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 06.18.2020 12:13 | |
| 4-Bromofluorobenzene | 460-00-4 | 124 | % | 70-130 | 06.18.2020 12:13 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-330 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-070 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.15.2020 10:45 Basis: Wet Weight

Seq Number: 3129036

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **50.7** | 4.97 | mg/kg | 06.15.2020 12:09 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight

Seq Number: 3129073

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 02:22 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 02:22 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 02:22 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 02:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 02:22 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 06.16.2020 02:22 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-330 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-070 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 12:34 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 12:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 12:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 12:34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 12:34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 12:34 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 12:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 06.18.2020 12:34 | |
| 4-Bromofluorobenzene | 460-00-4 | 131 | % | 70-130 | 06.18.2020 12:34 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-331 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24
Lab Sample Id: 664339-071 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.15.2020 10:45 Basis: Wet Weight
Seq Number: 3129036

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **20.3** | 4.95 | mg/kg | 06.15.2020 12:14 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight
Seq Number: 3129073

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.16.2020 03:04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.16.2020 03:04 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.16.2020 03:04 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.16.2020 03:04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.16.2020 03:04 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 06.16.2020 03:04 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-331 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-071 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 12:54 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 12:54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 12:54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.18.2020 12:54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 12:54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 12:54 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 12:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 06.18.2020 12:54 | |
| 4-Bromofluorobenzene | 460-00-4 | 140 | % | 70-130 | 06.18.2020 12:54 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-332 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-072 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **18.6** | 5.05 | mg/kg | 06.15.2020 12:19 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 03:25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 03:25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 03:25 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 03:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 06.16.2020 03:25 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 06.16.2020 03:25 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-332 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-072 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:15 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 13:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:15 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 143 | % | 70-130 | 06.18.2020 13:15 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 06.18.2020 13:15 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-333 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-073 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.26** | 5.01 | mg/kg | 06.15.2020 12:24 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 03:47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 03:47 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 03:47 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 03:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 03:47 | |
| o-Terphenyl | 84-15-1 | 111 | % | 70-130 | 06.16.2020 03:47 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-333 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-073 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 13:35 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 13:35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 13:35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.18.2020 13:35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 13:35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 13:35 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 13:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 141 | % | 70-130 | 06.18.2020 13:35 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 13:35 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-334 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-074 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.2** | 4.96 | mg/kg | 06.15.2020 12:29 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 04:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 04:08 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 04:08 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 04:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.16.2020 04:08 | |
| o-Terphenyl | 84-15-1 | 111 | % | 70-130 | 06.16.2020 04:08 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-334 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-074 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:56 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:56 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:56 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 13:56 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:56 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:56 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 13:56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 06.18.2020 13:56 | |
| 4-Bromofluorobenzene | 460-00-4 | 142 | % | 70-130 | 06.18.2020 13:56 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-335 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-075 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.2** | 5.02 | mg/kg | 06.15.2020 12:44 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 04:29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 04:29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 04:29 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 04:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 06.16.2020 04:29 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.16.2020 04:29 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-335 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-075 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:17 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:17 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:17 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 14:17 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:17 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:17 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 90 | % | 70-130 | 06.18.2020 14:17 | |
| 4-Bromofluorobenzene | 460-00-4 | 144 | % | 70-130 | 06.18.2020 14:17 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-336 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24
Lab Sample Id: 664339-076 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.15.2020 10:45 Basis: Wet Weight
Seq Number: 3129036

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.64** | 4.99 | mg/kg | 06.15.2020 12:50 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 06.15.2020 11:00 Basis: Wet Weight
Seq Number: 3129073

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.16.2020 04:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.16.2020 04:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.16.2020 04:50 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.16.2020 04:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 111 | % | 70-130 | 06.16.2020 04:50 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 06.16.2020 04:50 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-336 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-076 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129350 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 14:38 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 14:38 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 14:38 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 14:38 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 14:38 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 14:38 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 14:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 139 | % | 70-130 | 06.18.2020 14:38 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 06.18.2020 14:38 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-337 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-077 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **11.0** | 4.95 | mg/kg | 06.15.2020 13:05 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 05:11 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 05:11 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 05:11 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 05:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 06.16.2020 05:11 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.16.2020 05:11 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-337 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-077 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:41 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.18.2020 08:41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:41 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 88 | % | 70-130 | 06.18.2020 08:41 | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 06.18.2020 08:41 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-338 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-078 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.2** | 4.95 | mg/kg | 06.15.2020 13:10 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 05:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 05:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 05:32 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 05:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 05:32 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-130 | 06.16.2020 05:32 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-338 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-078 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.18.2020 09:02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 06.18.2020 09:02 | |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 09:02 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-339 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-079 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.99** | 4.95 | mg/kg | 06.15.2020 13:15 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 05:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 05:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 05:53 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 05:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 06.16.2020 05:53 | |
| o-Terphenyl | 84-15-1 | 115 | % | 70-130 | 06.16.2020 05:53 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-339 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-079 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 09:22 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 09:22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 09:22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.18.2020 09:22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 09:22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 09:22 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 09:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 126 | % | 70-130 | 06.18.2020 09:22 | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 06.18.2020 09:22 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-340 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-080 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.46** | 4.97 | mg/kg | 06.15.2020 13:20 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 11:00 | Basis: | Wet Weight |
| Seq Number: | 3129073 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 06:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 06:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 06:14 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 06:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 06:14 | |
| o-Terphenyl | 84-15-1 | 111 | % | 70-130 | 06.16.2020 06:14 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-340 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-080 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:43 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:43 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:43 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 09:43 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:43 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:43 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 09:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 06.18.2020 09:43 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 06.18.2020 09:43 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-341 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-081 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.15.2020 10:45 Basis: Wet Weight

Seq Number: 3129036

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.68** | 5.04 | mg/kg | 06.15.2020 13:25 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 15:00 Basis: Wet Weight

Seq Number: 3129075

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 22:29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 22:29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 22:29 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 22:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 06.15.2020 22:29 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 06.15.2020 22:29 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-341 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-081 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:21 | UX | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:21 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:21 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.18.2020 08:21 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:21 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:21 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 08:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 06.18.2020 08:21 | |
| 1,4-Difluorobenzene | 540-36-3 | 90 | % | 70-130 | 06.18.2020 08:21 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-342 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-082 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:45 | Basis: | Wet Weight |
| Seq Number: | 3129036 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.3** | 4.99 | mg/kg | 06.15.2020 13:30 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.15.2020 23:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.15.2020 23:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.15.2020 23:32 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.15.2020 23:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 111 | % | 70-130 | 06.15.2020 23:32 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 06.15.2020 23:32 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-342 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-082 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 10:03 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 10:03 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 10:03 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 10:03 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 10:03 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 10:03 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 10:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 06.18.2020 10:03 | |
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 06.18.2020 10:03 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-343 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-083 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.15.2020 10:45 Basis: Wet Weight

Seq Number: 3129036

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.89** | 4.96 | mg/kg | 06.15.2020 13:35 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 15:00 Basis: Wet Weight

Seq Number: 3129075

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.15.2020 23:54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.15.2020 23:54 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.15.2020 23:54 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.15.2020 23:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.15.2020 23:54 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 06.15.2020 23:54 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-343 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-083 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:24 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:24 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:24 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 10:24 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:24 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:24 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 06.18.2020 10:24 | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 06.18.2020 10:24 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-344 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-084 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **11.0** | 5.00 | mg/kg | 06.15.2020 14:05 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 00:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 00:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 00:15 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 00:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 00:15 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 06.16.2020 00:15 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-344 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-084 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:44 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:44 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 10:44 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:44 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:44 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 10:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 06.18.2020 10:44 | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 06.18.2020 10:44 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-345 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-085 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.0** | 4.96 | mg/kg | 06.15.2020 14:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.16.2020 00:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.16.2020 00:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.16.2020 00:36 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.16.2020 00:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-130 | 06.16.2020 00:36 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 06.16.2020 00:36 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-345 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-085 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 11:05 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 11:05 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 11:05 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 06.18.2020 11:05 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 11:05 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 11:05 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 06.18.2020 11:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 06.18.2020 11:05 | |
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 06.18.2020 11:05 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-346 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24
Lab Sample Id: 664339-086 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.15.2020 10:57 Basis: Wet Weight
Seq Number: 3129040

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.1** | 5.00 | mg/kg | 06.15.2020 14:26 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 06.15.2020 15:00 Basis: Wet Weight
Seq Number: 3129075

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 00:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 00:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 00:57 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 00:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 00:57 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 06.16.2020 00:57 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-346 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-086 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:25 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:25 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:25 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 11:25 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:25 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:25 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 11:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 06.18.2020 11:25 | |
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 06.18.2020 11:25 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-347 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-087 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **11.7** | 5.04 | mg/kg | 06.15.2020 14:31 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.16.2020 01:18 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.16.2020 01:18 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.16.2020 01:18 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.16.2020 01:18 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.16.2020 01:18 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-130 | 06.16.2020 01:18 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-347 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-087 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:49 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.18.2020 14:49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:49 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 14:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 06.18.2020 14:49 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 06.18.2020 14:49 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-348 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24
Lab Sample Id: 664339-088 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.15.2020 10:57 Basis: Wet Weight
Seq Number: 3129040

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.4** | 4.98 | mg/kg | 06.15.2020 14:36 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 06.15.2020 15:00 Basis: Wet Weight
Seq Number: 3129075

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 01:40 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 01:40 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 01:40 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 01:40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-130 | 06.16.2020 01:40 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 06.16.2020 01:40 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-348 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-088 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 15:10 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 15:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 15:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.18.2020 15:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 15:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 15:10 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 15:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 06.18.2020 15:10 | |
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 06.18.2020 15:10 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-349 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-089 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.1** | 4.98 | mg/kg | 06.15.2020 14:51 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 02:01 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 02:01 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 02:01 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 02:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 06.16.2020 02:01 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 06.16.2020 02:01 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-349 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-089 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 15:30 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 15:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 15:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 15:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 15:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 15:30 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 15:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 06.18.2020 15:30 | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 06.18.2020 15:30 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-350 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-090 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.88** | 4.99 | mg/kg | 06.15.2020 14:56 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 02:22 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 02:22 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 02:22 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 02:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.16.2020 02:22 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 06.16.2020 02:22 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-350 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-090 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 15:51 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 15:51 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 15:51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 15:51 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 15:51 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 15:51 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 15:51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 06.18.2020 15:51 | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 06.18.2020 15:51 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-351 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-091 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.97** | 4.97 | mg/kg | 06.15.2020 15:01 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 03:04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 03:04 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 03:04 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 03:04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.16.2020 03:04 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 06.16.2020 03:04 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-351 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-091 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 16:11 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 16:11 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 16:11 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 16:11 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 16:11 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 16:11 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 16:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 06.18.2020 16:11 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 06.18.2020 16:11 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-352 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-092 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.78** | 5.00 | mg/kg | 06.15.2020 15:06 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 03:25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 03:25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 03:25 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 03:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 06.16.2020 03:25 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 06.16.2020 03:25 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-352 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-092 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:32 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.18.2020 16:32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:32 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 06.18.2020 16:32 | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 06.18.2020 16:32 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-353 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-093 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.85** | 5.04 | mg/kg | 06.15.2020 15:11 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 03:47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 03:47 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 03:47 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 03:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-130 | 06.16.2020 03:47 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-130 | 06.16.2020 03:47 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-353 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-093 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:52 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.18.2020 16:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:52 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.18.2020 16:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 06.18.2020 16:52 | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 06.18.2020 16:52 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-354 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-094 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.38** | 4.95 | mg/kg | 06.15.2020 15:16 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 04:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 04:08 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 04:08 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 04:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 06.16.2020 04:08 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 06.16.2020 04:08 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-354 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-094 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:13 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.18.2020 17:13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:13 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 06.18.2020 17:13 | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 06.18.2020 17:13 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-355 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-095 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.09** | 4.97 | mg/kg | 06.15.2020 15:42 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 04:29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 04:29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 04:29 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 04:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 04:29 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 06.16.2020 04:29 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-355 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-095 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:33 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.18.2020 17:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:33 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 87 | % | 70-130 | 06.18.2020 17:33 | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 06.18.2020 17:33 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-356 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24
Lab Sample Id: 664339-096 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.15.2020 10:57 Basis: Wet Weight
Seq Number: 3129040

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.65** | 5.02 | mg/kg | 06.15.2020 15:47 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 06.15.2020 15:00 Basis: Wet Weight
Seq Number: 3129075

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 04:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 04:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 04:50 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 04:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-130 | 06.16.2020 04:50 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 06.16.2020 04:50 | |

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## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-356 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-096 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.17.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129411 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:53 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.18.2020 17:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:53 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 17:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 06.18.2020 17:53 | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 06.18.2020 17:53 | |

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## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-357 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-097 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.83** | 4.95 | mg/kg | 06.15.2020 16:02 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 05:11 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 05:11 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 05:11 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 05:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 06.16.2020 05:11 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 06.16.2020 05:11 | |

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## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-357 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-097 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 18:36 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 18:36 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 18:36 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.18.2020 18:36 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 18:36 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 18:36 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 18:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 131 | % | 70-130 | 06.18.2020 18:36 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 06.18.2020 18:36 | |

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## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-358 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-098 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.16** | 5.00 | mg/kg | 06.15.2020 16:07 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 05:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 05:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 05:32 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 05:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 06.16.2020 05:32 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-130 | 06.16.2020 05:32 | |

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## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-358 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-098 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 18:57 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 18:57 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 18:57 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 06.18.2020 18:57 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 18:57 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 18:57 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 06.18.2020 18:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 133 | % | 70-130 | 06.18.2020 18:57 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 06.18.2020 18:57 | |

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## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-359 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-099 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.68** | 5.00 | mg/kg | 06.15.2020 16:12 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.15.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3129075 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 05:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 05:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 05:53 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 05:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 06.16.2020 05:53 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 06.16.2020 05:53 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-359 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-099 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 19:17 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 19:17 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 19:17 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 19:17 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 19:17 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 19:17 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 19:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 137 | % | 70-130 | 06.18.2020 19:17 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 06.18.2020 19:17 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-360 Comp 2'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-100 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.15.2020 10:57 Basis: Wet Weight

Seq Number: 3129040

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.00** | 5.00 | mg/kg | 06.15.2020 16:17 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.15.2020 15:00 Basis: Wet Weight

Seq Number: 3129075

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 06:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 06:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 06:14 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 06:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 06.16.2020 06:14 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 06.16.2020 06:14 | |

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## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-360 Comp 2'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-100 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 19:38 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 19:38 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 19:38 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 06.18.2020 19:38 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 19:38 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 19:38 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 06.18.2020 19:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 06.18.2020 19:38 | |
| 4-Bromofluorobenzene | 460-00-4 | 146 | % | 70-130 | 06.18.2020 19:38 | ** |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-361 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-101 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 10:57 | Basis: | Wet Weight |
| Seq Number: | 3129040 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.12** | 5.03 | mg/kg | 06.15.2020 16:22 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.16.2020 12:15 | Basis: | Wet Weight |
| Seq Number: | 3129216 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 12:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 12:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 12:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 12:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.16.2020 12:58 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 06.16.2020 12:58 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-361 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-101 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 18:16 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 18:16 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 18:16 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 18:16 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 18:16 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 18:16 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 18:16 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 06.18.2020 18:16 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 18:16 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-362 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24

Lab Sample Id: 664339-102 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.15.2020 10:57 Basis: Wet Weight

Seq Number: 3129040

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.36** | 4.99 | mg/kg | 06.15.2020 16:27 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 06.16.2020 12:15 Basis: Wet Weight

Seq Number: 3129216

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 14:03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 14:03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 14:03 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 14:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 06.16.2020 14:03 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 06.16.2020 14:03 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-362 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-102 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 19:58 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 19:58 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 19:58 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 19:58 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 19:58 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 19:58 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 19:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 145 | % | 70-130 | 06.18.2020 19:58 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 06.18.2020 19:58 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-363 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24
Lab Sample Id: 664339-103 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.15.2020 10:57 Basis: Wet Weight
Seq Number: 3129040

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.57** | 4.97 | mg/kg | 06.15.2020 16:32 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 06.16.2020 12:15 Basis: Wet Weight
Seq Number: 3129216

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 14:24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 14:24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 14:24 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 14:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 06.16.2020 14:24 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 06.16.2020 14:24 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-363 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-103 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:19 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 20:19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:19 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 149 | % | 70-130 | 06.18.2020 20:19 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 20:19 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-364 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-104 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 11:50 | Basis: | Wet Weight |
| Seq Number: | 3129045 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 06.15.2020 12:08 | UX | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.16.2020 12:15 | Basis: | Wet Weight |
| Seq Number: | 3129216 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 14:45 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 14:45 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 14:45 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 14:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 06.16.2020 14:45 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 06.16.2020 14:45 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-364 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-104 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 20:39 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 20:39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 20:39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 06.18.2020 20:39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 20:39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 06.18.2020 20:39 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 06.18.2020 20:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 151 | % | 70-130 | 06.18.2020 20:39 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 20:39 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-365 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-105 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 11:50 | Basis: | Wet Weight |
| Seq Number: | 3129045 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.02 | 5.02 | mg/kg | 06.15.2020 12:26 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.16.2020 12:15 | Basis: | Wet Weight |
| Seq Number: | 3129216 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 15:07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 15:07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 15:07 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 15:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 06.16.2020 15:07 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 06.16.2020 15:07 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-365 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-105 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:59 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:59 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:59 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 20:59 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:59 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:59 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 20:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 150 | % | 70-130 | 06.18.2020 20:59 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 06.18.2020 20:59 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-366 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-106 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 11:50 | Basis: | Wet Weight |
| Seq Number: | 3129045 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.99 | 4.99 | mg/kg | 06.15.2020 12:33 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.16.2020 12:15 | Basis: | Wet Weight |
| Seq Number: | 3129216 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 15:29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 15:29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 15:29 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 15:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 06.16.2020 15:29 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 06.16.2020 15:29 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-366 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-106 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 21:20 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 21:20 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 21:20 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 21:20 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 21:20 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 21:20 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 21:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 149 | % | 70-130 | 06.18.2020 21:20 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 06.18.2020 21:20 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-367 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24
Lab Sample Id: 664339-107 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.15.2020 11:50 Basis: Wet Weight
Seq Number: 3129045

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.04 | 5.04 | mg/kg | 06.15.2020 12:39 | U | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 06.16.2020 12:15 Basis: Wet Weight
Seq Number: 3129216

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 06.16.2020 15:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 06.16.2020 15:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 06.16.2020 15:50 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 06.16.2020 15:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 06.16.2020 15:50 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 06.16.2020 15:50 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-367 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-107 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 22:42 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 22:42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 22:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.18.2020 22:42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 22:42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.18.2020 22:42 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.18.2020 22:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 133 | % | 70-130 | 06.18.2020 22:42 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 06.18.2020 22:42 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

Sample Id: **Bottomhole-368 Comp 3'** Matrix: Soil Date Received:06.12.2020 14:24
Lab Sample Id: 664339-108 Date Collected: 06.12.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.15.2020 11:50 Basis: Wet Weight
Seq Number: 3129045

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 06.15.2020 12:45 | U | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 06.16.2020 12:15 Basis: Wet Weight
Seq Number: 3129216

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 16:12 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 16:12 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 16:12 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 16:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 06.16.2020 16:12 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 06.16.2020 16:12 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-368 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-108 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:02 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.18.2020 23:02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:02 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 134 | % | 70-130 | 06.18.2020 23:02 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 06.18.2020 23:02 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-369 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-109 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 11:50 | Basis: | Wet Weight |
| Seq Number: | 3129045 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 06.15.2020 13:03 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.16.2020 12:15 | Basis: | Wet Weight |
| Seq Number: | 3129216 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 06.16.2020 16:33 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.16.2020 16:33 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.16.2020 16:33 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.16.2020 16:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 06.16.2020 16:33 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 06.16.2020 16:33 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-369 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-109 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:22 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.18.2020 23:22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:22 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.18.2020 23:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 134 | % | 70-130 | 06.18.2020 23:22 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 06.18.2020 23:22 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-370 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-110 | Date Collected: | 06.12.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 06.15.2020 11:50 | Basis: | Wet Weight |
| Seq Number: | 3129045 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 06.15.2020 13:09 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.16.2020 12:15 | Basis: | Wet Weight |
| Seq Number: | 3129216 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 06.16.2020 16:55 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 06.16.2020 16:55 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 06.16.2020 16:55 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 06.16.2020 16:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 06.16.2020 16:55 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 06.16.2020 16:55 | |

# Certificate of Analytical Results 664339

## Tetra Tech- Midland, Midland, TX

EOG - Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottomhole-370 Comp 3'** | Matrix: | Soil | Date Received: | 06.12.2020 14:24 |
| Lab Sample Id: | 664339-110 | Date Collected: | 06.12.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 06.18.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3129409 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 23:43 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 23:43 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 23:43 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.18.2020 23:43 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 23:43 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.18.2020 23:43 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.18.2020 23:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 06.18.2020 23:43 | |
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 06.18.2020 23:43 | ** |

# 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. **ND** Not Detected.

**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

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3128895 — Matrix: Solid — Date Prep: 06.12.2020
MB Sample Id: 7705369-1-BLK — LCS Sample Id: 7705369-1-BKS — LCSD Sample Id: 7705369-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 240 | 96 | 231 | 92 | 90-110 | 4 | 20 | mg/kg | 06.13.2020 00:00 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3128896 — Matrix: Solid — Date Prep: 06.12.2020
MB Sample Id: 7705377-1-BLK — LCS Sample Id: 7705377-1-BKS — LCSD Sample Id: 7705377-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 261 | 104 | 258 | 103 | 90-110 | 1 | 20 | mg/kg | 06.12.2020 20:59 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3128898 — Matrix: Solid — Date Prep: 06.12.2020
MB Sample Id: 7705384-1-BLK — LCS Sample Id: 7705384-1-BKS — LCSD Sample Id: 7705384-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 238 | 95 | 242 | 97 | 90-110 | 2 | 20 | mg/kg | 06.13.2020 02:47 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3128899 — Matrix: Solid — Date Prep: 06.12.2020
MB Sample Id: 7705390-1-BLK — LCS Sample Id: 7705390-1-BKS — LCSD Sample Id: 7705390-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 240 | 96 | 238 | 95 | 90-110 | 1 | 20 | mg/kg | 06.13.2020 05:34 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3129036 — Matrix: Solid — Date Prep: 06.15.2020
MB Sample Id: 7705452-1-BLK — LCS Sample Id: 7705452-1-BKS — LCSD Sample Id: 7705452-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 236 | 94 | 236 | 94 | 90-110 | 0 | 20 | mg/kg | 06.15.2020 11:08 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3129040 — Matrix: Solid — Date Prep: 06.15.2020
MB Sample Id: 7705453-1-BLK — LCS Sample Id: 7705453-1-BKS — LCSD Sample Id: 7705453-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 242 | 97 | 240 | 96 | 90-110 | 1 | 20 | mg/kg | 06.15.2020 13:55 | |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3129045 Matrix: Solid Date Prep: 06.15.2020
MB Sample Id: 7705455-1-BLK LCS Sample Id: 7705455-1-BKS LCSD Sample Id: 7705455-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 257 | 103 | 258 | 103 | 90-110 | 0 | 20 | mg/kg | 06.15.2020 11:56 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3128895 Matrix: Soil Date Prep: 06.12.2020
Parent Sample Id: 664315-076 MS Sample Id: 664315-076 S MSD Sample Id: 664315-076 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 13.6 | 248 | 255 | 97 | 256 | 98 | 90-110 | 0 | 20 | mg/kg | 06.13.2020 00:16 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3128895 Matrix: Soil Date Prep: 06.12.2020
Parent Sample Id: 664315-086 MS Sample Id: 664315-086 S MSD Sample Id: 664315-086 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 12.1 | 248 | 256 | 98 | 256 | 98 | 90-110 | 0 | 20 | mg/kg | 06.13.2020 01:26 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3128896 Matrix: Soil Date Prep: 06.12.2020
Parent Sample Id: 664339-004 MS Sample Id: 664339-004 S MSD Sample Id: 664339-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 79.6 | 253 | 349 | 106 | 348 | 106 | 90-110 | 0 | 20 | mg/kg | 06.12.2020 21:18 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3128896 Matrix: Soil Date Prep: 06.12.2020
Parent Sample Id: 664339-014 MS Sample Id: 664339-014 S MSD Sample Id: 664339-014 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 47.2 | 249 | 315 | 108 | 312 | 106 | 90-110 | 1 | 20 | mg/kg | 06.12.2020 22:44 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3128898 Matrix: Soil Date Prep: 06.12.2020
Parent Sample Id: 664339-024 MS Sample Id: 664339-024 S MSD Sample Id: 664339-024 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 31.2 | 250 | 276 | 98 | 276 | 98 | 90-110 | 0 | 20 | mg/kg | 06.13.2020 03:02 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3128898 — Matrix: Soil — Date Prep: 06.12.2020
Parent Sample Id: 664339-034 — MS Sample Id: 664339-034 S — MSD Sample Id: 664339-034 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 10.9 | 249 | 255 | 98 | 256 | 98 | 90-110 | 0 | 20 | mg/kg | 06.13.2020 04:13 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3128899 — Matrix: Soil — Date Prep: 06.12.2020
Parent Sample Id: 664339-044 — MS Sample Id: 664339-044 S — MSD Sample Id: 664339-044 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 90.8 | 251 | 349 | 103 | 345 | 101 | 90-110 | 1 | 20 | mg/kg | 06.13.2020 05:49 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3128899 — Matrix: Soil — Date Prep: 06.12.2020
Parent Sample Id: 664339-054 — MS Sample Id: 664339-054 S — MSD Sample Id: 664339-054 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 18.6 | 250 | 278 | 104 | 283 | 106 | 90-110 | 2 | 20 | mg/kg | 06.13.2020 07:00 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3129036 — Matrix: Soil — Date Prep: 06.15.2020
Parent Sample Id: 664339-064 — MS Sample Id: 664339-064 S — MSD Sample Id: 664339-064 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 19.6 | 252 | 263 | 97 | 268 | 99 | 90-110 | 2 | 20 | mg/kg | 06.15.2020 11:23 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3129036 — Matrix: Soil — Date Prep: 06.15.2020
Parent Sample Id: 664339-074 — MS Sample Id: 664339-074 S — MSD Sample Id: 664339-074 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 10.2 | 248 | 234 | 90 | 235 | 91 | 90-110 | 0 | 20 | mg/kg | 06.15.2020 12:34 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3129040 — Matrix: Soil — Date Prep: 06.15.2020
Parent Sample Id: 664339-084 — MS Sample Id: 664339-084 S — MSD Sample Id: 664339-084 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 11.0 | 250 | 263 | 101 | 267 | 102 | 90-110 | 2 | 20 | mg/kg | 06.15.2020 16:37 | |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3129040 — Matrix: Soil — Date Prep: 06.15.2020
Parent Sample Id: 664339-094 — MS Sample Id: 664339-094 S — MSD Sample Id: 664339-094 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 9.38 | 248 | 248 | 96 | 251 | 97 | 90-110 | 1 | 20 | mg/kg | 06.15.2020 15:31 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3129045 — Matrix: Soil — Date Prep: 06.15.2020
Parent Sample Id: 664339-104 — MS Sample Id: 664339-104 S — MSD Sample Id: 664339-104 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.95 | 248 | 278 | 112 | 275 | 111 | 90-110 | 1 | 20 | mg/kg | 06.15.2020 12:14 | X |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3129045 — Matrix: Soil — Date Prep: 06.15.2020
Parent Sample Id: 664362-001 — MS Sample Id: 664362-001 S — MSD Sample Id: 664362-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 636 | 253 | 867 | 91 | 867 | 91 | 90-110 | 0 | 20 | mg/kg | 06.15.2020 13:40 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3128940 — Matrix: Solid — Date Prep: 06.13.2020
MB Sample Id: 7705419-1-BLK — LCS Sample Id: 7705419-1-BKS — LCSD Sample Id: 7705419-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 939 | 94 | 930 | 93 | 70-130 | 1 | 20 | mg/kg | 06.13.2020 12:54 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 941 | 94 | 936 | 94 | 70-130 | 1 | 20 | mg/kg | 06.13.2020 12:54 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 103 | | 118 | | 122 | | 70-130 | % | 06.13.2020 12:54 |
| o-Terphenyl | 109 | | 112 | | 108 | | 70-130 | % | 06.13.2020 12:54 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129072 — Matrix: Solid — Date Prep: 06.15.2020
MB Sample Id: 7705478-1-BLK — LCS Sample Id: 7705478-1-BKS — LCSD Sample Id: 7705478-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 926 | 93 | 937 | 94 | 70-130 | 1 | 20 | mg/kg | 06.15.2020 12:07 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 936 | 94 | 962 | 96 | 70-130 | 3 | 20 | mg/kg | 06.15.2020 12:07 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 95 | | 98 | | 100 | | 70-130 | % | 06.15.2020 12:07 |
| o-Terphenyl | 107 | | 104 | | 106 | | 70-130 | % | 06.15.2020 12:07 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129073 — Matrix: Solid — Date Prep: 06.15.2020
MB Sample Id: 7705480-1-BLK — LCS Sample Id: 7705480-1-BKS — LCSD Sample Id: 7705480-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 986 | 99 | 1020 | 102 | 70-130 | 3 | 20 | mg/kg | 06.15.2020 21:46 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1020 | 102 | 1030 | 103 | 70-130 | 1 | 20 | mg/kg | 06.15.2020 21:46 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 100 | | 105 | | 106 | | 70-130 | % | 06.15.2020 21:46 |
| o-Terphenyl | 112 | | 95 | | 96 | | 70-130 | % | 06.15.2020 21:46 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129074 — Matrix: Solid — Date Prep: 06.15.2020
MB Sample Id: 7705479-1-BLK — LCS Sample Id: 7705479-1-BKS — LCSD Sample Id: 7705479-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 969 | 97 | 964 | 96 | 70-130 | 1 | 20 | mg/kg | 06.15.2020 12:07 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 951 | 95 | 945 | 95 | 70-130 | 1 | 20 | mg/kg | 06.15.2020 12:07 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 95 | | 100 | | 98 | | 70-130 | % | 06.15.2020 12:07 |
| o-Terphenyl | 101 | | 92 | | 90 | | 70-130 | % | 06.15.2020 12:07 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129075 — Matrix: Solid — Date Prep: 06.15.2020
MB Sample Id: 7705481-1-BLK — LCS Sample Id: 7705481-1-BKS — LCSD Sample Id: 7705481-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 896 | 90 | 881 | 88 | 70-130 | 2 | 20 | mg/kg | 06.15.2020 21:46 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 948 | 95 | 936 | 94 | 70-130 | 1 | 20 | mg/kg | 06.15.2020 21:46 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 100 | | 103 | | 102 | | 70-130 | % | 06.15.2020 21:46 |
| o-Terphenyl | 102 | | 89 | | 88 | | 70-130 | % | 06.15.2020 21:46 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



Final 1.000

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129216 — Matrix: Solid — Date Prep: 06.16.2020
MB Sample Id: 7705540-1-BLK — LCS Sample Id: 7705540-1-BKS — LCSD Sample Id: 7705540-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 866 | 87 | 904 | 90 | 70-130 | 4 | 20 | mg/kg | 06.16.2020 12:15 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 947 | 95 | 968 | 97 | 70-130 | 2 | 20 | mg/kg | 06.16.2020 12:15 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 98 | | 102 | | 105 | | 70-130 | % | 06.16.2020 12:15 |
| o-Terphenyl | 98 | | 101 | | 106 | | 70-130 | % | 06.16.2020 12:15 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3128940 — Matrix: Solid — Date Prep: 06.13.2020
MB Sample Id: 7705419-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 06.13.2020 12:34 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129072 — Matrix: Solid — Date Prep: 06.15.2020
MB Sample Id: 7705478-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 06.15.2020 11:46 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129073 — Matrix: Solid — Date Prep: 06.15.2020
MB Sample Id: 7705480-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 06.15.2020 21:25 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129074 — Matrix: Solid — Date Prep: 06.15.2020
MB Sample Id: 7705479-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 06.15.2020 11:46 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



Final 1.000

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod
Seq Number: 3129075
Matrix: Solid
MB Sample Id: 7705481-1-BLK
Prep Method: SW8015P
Date Prep: 06.15.2020

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 06.15.2020 21:25 | |

**Analytical Method:** TPH By SW8015 Mod
Seq Number: 3129216
Matrix: Solid
MB Sample Id: 7705540-1-BLK
Prep Method: SW8015P
Date Prep: 06.16.2020

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 06.16.2020 11:54 | |

**Analytical Method:** TPH By SW8015 Mod
Seq Number: 3128940
Parent Sample Id: 664339-001
Matrix: Soil
MS Sample Id: 664339-001 S
Prep Method: SW8015P
Date Prep: 06.13.2020
MSD Sample Id: 664339-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.8 | 996 | 963 | 97 | 954 | 96 | 70-130 | 1 | 20 | mg/kg | 06.13.2020 13:52 | |
| Diesel Range Organics (DRO) | <49.8 | 996 | 974 | 98 | 975 | 98 | 70-130 | 0 | 20 | mg/kg | 06.13.2020 13:52 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 122 | | 118 | | 70-130 | % | 06.13.2020 13:52 |
| o-Terphenyl | 109 | | 107 | | 70-130 | % | 06.13.2020 13:52 |

**Analytical Method:** TPH By SW8015 Mod
Seq Number: 3129072
Parent Sample Id: 664339-021
Matrix: Soil
MS Sample Id: 664339-021 S
Prep Method: SW8015P
Date Prep: 06.15.2020
MSD Sample Id: 664339-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 1010 | 101 | 972 | 98 | 70-130 | 4 | 20 | mg/kg | 06.15.2020 13:11 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 996 | 100 | 991 | 99 | 70-130 | 1 | 20 | mg/kg | 06.15.2020 13:11 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | | 101 | | 70-130 | % | 06.15.2020 13:11 |
| o-Terphenyl | 102 | | 102 | | 70-130 | % | 06.15.2020 13:11 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129073 — Matrix: Soil — Date Prep: 06.15.2020
Parent Sample Id: 664339-061 — MS Sample Id: 664339-061 S — MSD Sample Id: 664339-061 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 998 | 1040 | 104 | 1060 | 106 | 70-130 | 2 | 20 | mg/kg | 06.15.2020 22:50 | |
| Diesel Range Organics (DRO) | <49.9 | 998 | 1060 | 106 | 1080 | 108 | 70-130 | 2 | 20 | mg/kg | 06.15.2020 22:50 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 112 | | 114 | | 70-130 | % | 06.15.2020 22:50 |
| o-Terphenyl | 102 | | 101 | | 70-130 | % | 06.15.2020 22:50 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129074 — Matrix: Soil — Date Prep: 06.15.2020
Parent Sample Id: 664339-041 — MS Sample Id: 664339-041 S — MSD Sample Id: 664339-041 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 898 | 90 | 924 | 93 | 70-130 | 3 | 20 | mg/kg | 06.15.2020 13:11 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 965 | 97 | 932 | 94 | 70-130 | 3 | 20 | mg/kg | 06.15.2020 13:11 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 104 | | 99 | | 70-130 | % | 06.15.2020 13:11 |
| o-Terphenyl | 90 | | 89 | | 70-130 | % | 06.15.2020 13:11 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129075 — Matrix: Soil — Date Prep: 06.15.2020
Parent Sample Id: 664339-081 — MS Sample Id: 664339-081 S — MSD Sample Id: 664339-081 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 913 | 92 | 918 | 92 | 70-130 | 1 | 20 | mg/kg | 06.15.2020 22:50 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 977 | 98 | 972 | 97 | 70-130 | 1 | 20 | mg/kg | 06.15.2020 22:50 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 106 | | 105 | | 70-130 | % | 06.15.2020 22:50 |
| o-Terphenyl | 107 | | 105 | | 70-130 | % | 06.15.2020 22:50 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3129216 — Matrix: Soil — Date Prep: 06.16.2020
Parent Sample Id: 664339-101 — MS Sample Id: 664339-101 S — MSD Sample Id: 664339-101 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 861 | 86 | 848 | 85 | 70-130 | 2 | 20 | mg/kg | 06.16.2020 13:20 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 945 | 95 | 927 | 93 | 70-130 | 2 | 20 | mg/kg | 06.16.2020 13:20 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 101 | | 101 | | 70-130 | % | 06.16.2020 13:20 |
| o-Terphenyl | 100 | | 98 | | 70-130 | % | 06.16.2020 13:20 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3129287 — Matrix: Solid — Date Prep: 06.17.2020
MB Sample Id: 7705654-1-BLK — LCS Sample Id: 7705654-1-BKS — LCSD Sample Id: 7705654-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0891 | 89 | 0.0967 | 97 | 70-130 | 8 | 35 | mg/kg | 06.17.2020 08:57 | |
| Toluene | <0.00200 | 0.100 | 0.0951 | 95 | 0.102 | 102 | 70-130 | 7 | 35 | mg/kg | 06.17.2020 08:57 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.103 | 103 | 0.110 | 110 | 70-130 | 7 | 35 | mg/kg | 06.17.2020 08:57 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.208 | 104 | 0.223 | 112 | 70-130 | 7 | 35 | mg/kg | 06.17.2020 08:57 | |
| o-Xylene | <0.00200 | 0.100 | 0.102 | 102 | 0.109 | 109 | 70-130 | 7 | 35 | mg/kg | 06.17.2020 08:57 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 97 | | 90 | | 92 | | 70-130 | % | 06.17.2020 08:57 |
| 4-Bromofluorobenzene | 111 | | 104 | | 109 | | 70-130 | % | 06.17.2020 08:57 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3129289 — Matrix: Solid — Date Prep: 06.17.2020
MB Sample Id: 7705655-1-BLK — LCS Sample Id: 7705655-1-BKS — LCSD Sample Id: 7705655-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0821 | 82 | 0.0850 | 85 | 70-130 | 3 | 35 | mg/kg | 06.17.2020 19:43 | |
| Toluene | <0.00200 | 0.100 | 0.102 | 102 | 0.100 | 100 | 70-130 | 2 | 35 | mg/kg | 06.17.2020 19:43 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.115 | 115 | 0.115 | 115 | 70-130 | 0 | 35 | mg/kg | 06.17.2020 19:43 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.233 | 117 | 0.227 | 114 | 70-130 | 3 | 35 | mg/kg | 06.17.2020 19:43 | |
| o-Xylene | <0.00200 | 0.100 | 0.117 | 117 | 0.114 | 114 | 70-130 | 3 | 35 | mg/kg | 06.17.2020 19:43 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 91 | | 90 | | 92 | | 70-130 | % | 06.17.2020 19:43 |
| 4-Bromofluorobenzene | 111 | | 112 | | 111 | | 70-130 | % | 06.17.2020 19:43 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3129294 — Matrix: Solid — Date Prep: 06.17.2020
MB Sample Id: 7705660-1-BLK — LCS Sample Id: 7705660-1-BKS — LCSD Sample Id: 7705660-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.105 | 105 | 0.103 | 103 | 70-130 | 2 | 35 | mg/kg | 06.17.2020 17:05 | |
| Toluene | <0.00200 | 0.100 | 0.101 | 101 | 0.100 | 100 | 70-130 | 1 | 35 | mg/kg | 06.17.2020 17:05 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.104 | 104 | 0.103 | 103 | 70-130 | 1 | 35 | mg/kg | 06.17.2020 17:05 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.215 | 108 | 0.214 | 107 | 70-130 | 0 | 35 | mg/kg | 06.17.2020 17:05 | |
| o-Xylene | <0.00200 | 0.100 | 0.106 | 106 | 0.105 | 105 | 70-130 | 1 | 35 | mg/kg | 06.17.2020 17:05 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 86 | | 92 | | 91 | | 70-130 | % | 06.17.2020 17:05 |
| 4-Bromofluorobenzene | 118 | | 122 | | 123 | | 70-130 | % | 06.17.2020 17:05 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3129350 — Matrix: Solid — Date Prep: 06.17.2020
MB Sample Id: 7705716-1-BLK — LCS Sample Id: 7705716-1-BKS — LCSD Sample Id: 7705716-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.104 | 104 | 0.101 | 101 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 03:58 | |
| Toluene | <0.00200 | 0.100 | 0.0983 | 98 | 0.0952 | 95 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 03:58 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.101 | 101 | 0.0981 | 98 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 03:58 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.207 | 104 | 0.200 | 100 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 03:58 | |
| o-Xylene | <0.00200 | 0.100 | 0.103 | 103 | 0.0997 | 100 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 03:58 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 87 | | 92 | | 90 | | 70-130 | % | 06.18.2020 03:58 |
| 4-Bromofluorobenzene | 127 | | 130 | | 125 | | 70-130 | % | 06.18.2020 03:58 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3129411 — Matrix: Solid — Date Prep: 06.17.2020
MB Sample Id: 7705780-1-BLK — LCS Sample Id: 7705780-1-BKS — LCSD Sample Id: 7705780-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0865 | 87 | 0.0758 | 76 | 70-130 | 13 | 35 | mg/kg | 06.18.2020 06:18 | |
| Toluene | <0.00200 | 0.100 | 0.105 | 105 | 0.0932 | 93 | 70-130 | 12 | 35 | mg/kg | 06.18.2020 06:18 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.125 | 125 | 0.109 | 109 | 70-130 | 14 | 35 | mg/kg | 06.18.2020 06:18 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.250 | 125 | 0.221 | 111 | 70-130 | 12 | 35 | mg/kg | 06.18.2020 06:18 | |
| o-Xylene | <0.00200 | 0.100 | 0.128 | 128 | 0.111 | 111 | 70-130 | 14 | 35 | mg/kg | 06.18.2020 06:18 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 89 | | 89 | | 86 | | 70-130 | % | 06.18.2020 06:18 |
| 4-Bromofluorobenzene | 113 | | 119 | | 113 | | 70-130 | % | 06.18.2020 06:18 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



Final 1.000

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3129395 | Matrix: Solid | Date Prep: 06.18.2020
MB Sample Id: 7705768-1-BLK | LCS Sample Id: 7705768-1-BKS | LCSD Sample Id: 7705768-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.100 | 100 | 0.103 | 103 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 22:15 | |
| Toluene | <0.00200 | 0.100 | 0.0978 | 98 | 0.0965 | 97 | 70-130 | 1 | 35 | mg/kg | 06.18.2020 22:15 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0971 | 97 | 0.100 | 100 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 22:15 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.192 | 96 | 0.198 | 99 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 22:15 | |
| o-Xylene | <0.00200 | 0.100 | 0.0980 | 98 | 0.101 | 101 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 22:15 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 105 | | 100 | | 100 | | 70-130 | % | 06.18.2020 22:15 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3129409 | Matrix: Solid | Date Prep: 06.18.2020
MB Sample Id: 7705778-1-BLK | LCS Sample Id: 7705778-1-BKS | LCSD Sample Id: 7705778-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.112 | 112 | 0.108 | 108 | 70-130 | 4 | 35 | mg/kg | 06.18.2020 15:43 | |
| Toluene | <0.00200 | 0.100 | 0.106 | 106 | 0.104 | 104 | 70-130 | 2 | 35 | mg/kg | 06.18.2020 15:43 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.109 | 109 | 0.106 | 106 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 15:43 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.224 | 112 | 0.217 | 109 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 15:43 | |
| o-Xylene | <0.00200 | 0.100 | 0.112 | 112 | 0.108 | 108 | 70-130 | 4 | 35 | mg/kg | 06.18.2020 15:43 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 86 | | 91 | | 91 | | 70-130 | % | 06.18.2020 15:43 |
| 4-Bromofluorobenzene | 133 | ** | 137 | ** | 136 | ** | 70-130 | % | 06.18.2020 15:43 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3129287 | Matrix: Soil | Date Prep: 06.17.2020
Parent Sample Id: 664339-001 | MS Sample Id: 664339-001 S | MSD Sample Id: 664339-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0897 | 90 | 0.0898 | 91 | 70-130 | 0 | 35 | mg/kg | 06.17.2020 09:38 | |
| Toluene | <0.00200 | 0.100 | 0.0935 | 94 | 0.0985 | 99 | 70-130 | 5 | 35 | mg/kg | 06.17.2020 09:38 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.100 | 100 | 0.106 | 107 | 70-130 | 6 | 35 | mg/kg | 06.17.2020 09:38 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.203 | 102 | 0.216 | 109 | 70-130 | 6 | 35 | mg/kg | 06.17.2020 09:38 | |
| o-Xylene | <0.00200 | 0.100 | 0.0996 | 100 | 0.105 | 106 | 70-130 | 5 | 35 | mg/kg | 06.17.2020 09:38 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 90 | | 89 | | 70-130 | % | 06.17.2020 09:38 |
| 4-Bromofluorobenzene | 105 | | 111 | | 70-130 | % | 06.17.2020 09:38 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



Final 1.000

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3129289 | Matrix: Soil | Date Prep: 06.17.2020
Parent Sample Id: 664339-021 | MS Sample Id: 664339-021 S | MSD Sample Id: 664339-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.0998 | 0.0675 | 68 | 0.0651 | 65 | 70-130 | 4 | 35 | mg/kg | 06.17.2020 20:24 | X |
| Toluene | <0.00200 | 0.0998 | 0.0825 | 83 | 0.0824 | 83 | 70-130 | 0 | 35 | mg/kg | 06.17.2020 20:24 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0929 | 93 | 0.0921 | 92 | 70-130 | 1 | 35 | mg/kg | 06.17.2020 20:24 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.191 | 96 | 0.186 | 93 | 70-130 | 3 | 35 | mg/kg | 06.17.2020 20:24 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0959 | 96 | 0.0939 | 94 | 70-130 | 2 | 35 | mg/kg | 06.17.2020 20:24 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 88 | | 92 | | 70-130 | % | 06.17.2020 20:24 |
| 4-Bromofluorobenzene | 113 | | 116 | | 70-130 | % | 06.17.2020 20:24 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3129294 | Matrix: Soil | Date Prep: 06.17.2020
Parent Sample Id: 664339-041 | MS Sample Id: 664339-041 S | MSD Sample Id: 664339-041 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | 0.0992 | 0.0956 | 96 | 0.101 | 102 | 70-130 | 5 | 35 | mg/kg | 06.17.2020 17:47 | |
| Toluene | <0.00198 | 0.0992 | 0.0928 | 94 | 0.0979 | 98 | 70-130 | 5 | 35 | mg/kg | 06.17.2020 17:47 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.0920 | 93 | 0.0976 | 98 | 70-130 | 6 | 35 | mg/kg | 06.17.2020 17:47 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.190 | 96 | 0.202 | 102 | 70-130 | 6 | 35 | mg/kg | 06.17.2020 17:47 | |
| o-Xylene | <0.00198 | 0.0992 | 0.0946 | 95 | 0.101 | 102 | 70-130 | 7 | 35 | mg/kg | 06.17.2020 17:47 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 93 | | 93 | | 70-130 | % | 06.17.2020 17:47 |
| 4-Bromofluorobenzene | 125 | | 136 | ** | 70-130 | % | 06.17.2020 17:47 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3129350 | Matrix: Soil | Date Prep: 06.17.2020
Parent Sample Id: 664339-061 | MS Sample Id: 664339-061 S | MSD Sample Id: 664339-061 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | 0.0992 | 0.0939 | 95 | 0.0947 | 96 | 70-130 | 1 | 35 | mg/kg | 06.18.2020 04:39 | |
| Toluene | <0.00198 | 0.0992 | 0.0904 | 91 | 0.0899 | 91 | 70-130 | 1 | 35 | mg/kg | 06.18.2020 04:39 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.0907 | 91 | 0.0892 | 90 | 70-130 | 2 | 35 | mg/kg | 06.18.2020 04:39 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.187 | 94 | 0.184 | 93 | 70-130 | 2 | 35 | mg/kg | 06.18.2020 04:39 | |
| o-Xylene | <0.00198 | 0.0992 | 0.0931 | 94 | 0.0926 | 94 | 70-130 | 1 | 35 | mg/kg | 06.18.2020 04:39 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 92 | | 94 | | 70-130 | % | 06.18.2020 04:39 |
| 4-Bromofluorobenzene | 130 | | 141 | ** | 70-130 | % | 06.18.2020 04:39 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



Final 1.000

# QC Summary 664339



## Tetra Tech- Midland

EOG - Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3129411 | Matrix: Soil | Date Prep: 06.17.2020
Parent Sample Id: 664339-081 | MS Sample Id: 664339-081 S | MSD Sample Id: 664339-081 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.0998 | 0.0623 | 62 | 0.0737 | 74 | 70-130 | 17 | 35 | mg/kg | 06.18.2020 06:59 | X |
| Toluene | <0.00200 | 0.0998 | 0.0797 | 80 | 0.0914 | 92 | 70-130 | 14 | 35 | mg/kg | 06.18.2020 06:59 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0938 | 94 | 0.105 | 105 | 70-130 | 11 | 35 | mg/kg | 06.18.2020 06:59 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.193 | 97 | 0.215 | 108 | 70-130 | 11 | 35 | mg/kg | 06.18.2020 06:59 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0980 | 98 | 0.108 | 108 | 70-130 | 10 | 35 | mg/kg | 06.18.2020 06:59 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 89 | | 88 | | 70-130 | % | 06.18.2020 06:59 |
| 4-Bromofluorobenzene | 123 | | 122 | | 70-130 | % | 06.18.2020 06:59 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3129395 | Matrix: Soil | Date Prep: 06.18.2020
Parent Sample Id: 664315-078 | MS Sample Id: 664315-078 S | MSD Sample Id: 664315-078 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | 0.0992 | 0.0832 | 84 | 0.0874 | 87 | 70-130 | 5 | 35 | mg/kg | 06.18.2020 22:56 | |
| Toluene | <0.00198 | 0.0992 | 0.0754 | 76 | 0.0820 | 82 | 70-130 | 8 | 35 | mg/kg | 06.18.2020 22:56 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.0705 | 71 | 0.0817 | 82 | 70-130 | 15 | 35 | mg/kg | 06.18.2020 22:56 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.136 | 69 | 0.158 | 79 | 70-130 | 15 | 35 | mg/kg | 06.18.2020 22:56 | X |
| o-Xylene | <0.00198 | 0.0992 | 0.0723 | 73 | 0.0825 | 83 | 70-130 | 13 | 35 | mg/kg | 06.18.2020 22:56 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 102 | | 70-130 | % | 06.18.2020 22:56 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3129409 | Matrix: Soil | Date Prep: 06.18.2020
Parent Sample Id: 664339-101 | MS Sample Id: 664339-101 S | MSD Sample Id: 664339-101 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0994 | 0.101 | 102 | 0.0963 | 96 | 70-130 | 5 | 35 | mg/kg | 06.18.2020 16:27 | |
| Toluene | <0.00199 | 0.0994 | 0.0947 | 95 | 0.0895 | 90 | 70-130 | 6 | 35 | mg/kg | 06.18.2020 16:27 | |
| Ethylbenzene | <0.00199 | 0.0994 | 0.0963 | 97 | 0.0899 | 90 | 70-130 | 7 | 35 | mg/kg | 06.18.2020 16:27 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.198 | 99 | 0.185 | 93 | 70-130 | 7 | 35 | mg/kg | 06.18.2020 16:27 | |
| o-Xylene | <0.00199 | 0.0994 | 0.0973 | 98 | 0.0926 | 93 | 70-130 | 5 | 35 | mg/kg | 06.18.2020 16:27 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 91 | | 89 | | 70-130 | % | 06.18.2020 16:27 |
| 4-Bromofluorobenzene | 137 | ** | 146 | ** | 70-130 | % | 06.18.2020 16:27 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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**Analysis Request of Chain of Custody Record**

6064339

Page 1 of 11

# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** James Kennedy | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Devin Dominguez |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | 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 / Sulfate / TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-261 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-262 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-263 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-264 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-265 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-266 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-267 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-268 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-269 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-270 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 6/18 | Time: 1424 | Received by: DKRAMER |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: 6/12 Time: 1424

**LAB USE ONLY**

Sample Temperature 1.7/1.3

**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.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** James Kennedy | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Devin Dominguez |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-271 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-272 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-273 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-274 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-275 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-276 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-277 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-278 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-279 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-280 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

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|---|---|---|---|---|
| Relinquished by: | Date: 6/18 | Time: 14.24 | Received by: JKRAMER | Date: 6/12 Time: 1424 |
| Relinquished by: | Date: | Time: | Received by: | Date: Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: Time: |

**LAB USE ONLY**

Sample Temperature 1.7/1.3

**REMARKS:**

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- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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**Analysis Request of Chain of Custody Record**



# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** James Kennedy | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Devin Dominguez |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | 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 / Sulfate / TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-281 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-282 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-283 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-284 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-285 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-286 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-287 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-288 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-289 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-290 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

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**LAB USE ONLY**

Sample Temperature

**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.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG | **Site Manager:** | Mike Carmona |
| **Project Name:** | Rattlesnake Reuse Pit | | |
| **Project Location: (county, state)** | Lea County, New Mexico | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | James Kennedy | | |
| **Receiving Laboratory:** | Xenco | **Sampler Signature:** | Devin Dominguez |
| **Comments:** | | | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-291 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-292 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-293 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-294 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-295 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-296 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-297 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-298 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-299 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-300 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

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**LAB USE ONLY**

Sample Temperature

**REMARKS:**

- ☐ STANDARD
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- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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**Analysis Request of Chain of Custody Record**



# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG | **Site Manager:** | Mike Carmona |
| **Project Name:** | Rattlesnake Reuse Pit | | |
| **Project Location: (county, state)** | Lea County, New Mexico | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | James Kennedy | | |
| **Receiving Laboratory:** | Xenco | **Sampler Signature:** | Devin Dominguez |
| **Comments:** | | | |

**ANALYSIS REQUEST**
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-301 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-302 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-303 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-304 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-305 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-306 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-307 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-308 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-309 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-310 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

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Received by: Date: Time:

**LAB USE ONLY**
Sample Temperature

**REMARKS:**
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**Analysis Request of Chain of Custody Record**



# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | EOG | **Site Manager:** | Mike Carmona |
| **Project Name:** | Rattlesnake Reuse Pit | | |
| **Project Location: (county, state)** | Lea County, New Mexico | **Project #:** | 212C-MD-01974 |
| **Invoice to:** | James Kennedy | | |
| **Receiving Laboratory:** | Xenco | **Sampler Signature:** | Devin Dominguez |
| **Comments:** | | | |

**ANALYSIS REQUEST**
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-311 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-312 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-313 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-314 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-315 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-316 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-317 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-318 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-319 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-320 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

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**LAB USE ONLY**

Sample Temperature

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**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-321 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-322 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-323 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-324 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-325 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-326 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-327 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-328 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-329 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-330 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | | X | | | | | | | |

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| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Received by: PRAMER 6/12 — Date: Time:

**LAB USE ONLY**

Sample Temperature

**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.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** James Kennedy | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Devin Dominguez |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-331 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-332 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-333 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-334 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-335 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-336 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-337 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-338 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-339 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-340 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

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| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Received by: WKAMER 6/12 Time:
Received by: Date: Time:

**LAB USE ONLY**
Sample Temperature

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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**Analysis Request of Chain of Custody Record**



# Tetra Tech, Inc.

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

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** James Kennedy | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Devin Dominguez |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-341 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-342 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-343 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-344 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-345 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-346 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-347 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-348 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-349 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-350 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

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| Relinquished by: | Date: | Time: | Received by: Date: Time: |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea County, New Mexico | **Project #:** 212C-MD-01974 |
| **Invoice to:** James Kennedy | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Devin Dominguez |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-351 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-352 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-353 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-354 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-355 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-356 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-357 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-358 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-359 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | Bottomhole-360 comp 2' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

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| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Received by: Date: 6/12 Time:

**LAB USE ONLY**
Sample Temperature

**REMARKS:**
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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| **Invoice to:** James Kennedy | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Devin Dominguez |
| **Comments:** | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottomhole-361 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-362 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-363 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-364 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-365 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-366 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-367 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-368 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-369 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | Bottomhole-370 comp 3' | 6/12/2020 | | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

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Received by: Date: Time:

Received by: Date: Time:

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 06.12.2020 02.24.00 PM

**Work Order #:** 664339

**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)? | 1.3 |
| #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)? | **N/A** |
| #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:** Brianna Teel Date: 06.12.2020
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 06.12.2020
Jessica Kramer

eurofins | Xenco

# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 666985-001 | | 666985-002 | | 666985-003 | | 666985-004 | | 666985-005 | | 666985-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole #410 (2'BEB | | Bottom Hole #411 (2'BEB | | Bottom Hole #412 (2'BEB | | Bottom Hole #413 (2'BEB | | Bottom Hole #414 (2'BEB | | Bottom Hole #415 (2'BEB | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | |
| | *Analyzed:* | 07.16.2020 03:29 | | 07.16.2020 03:50 | | 07.16.2020 04:10 | | 07.16.2020 04:30 | | 07.16.2020 04:50 | | 07.16.2020 05:11 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00396 | 0.00396 | <0.00397 | 0.00397 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | |
| | *Analyzed:* | 07.13.2020 18:48 | | 07.13.2020 19:03 | | 07.13.2020 19:08 | | 07.13.2020 19:13 | | 07.13.2020 19:18 | | 07.13.2020 19:34 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 44.1 | 4.96 | 46.0 | 5.03 | 45.5 | 4.98 | 16.8 | 4.99 | 9.22 | 5.04 | 10.5 | 4.96 |
| **TPH By SW8015 Mod** | *Extracted:* | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | |
| | *Analyzed:* | 07.13.2020 23:07 | | 07.14.2020 00:11 | | 07.14.2020 00:32 | | 07.14.2020 00:53 | | 07.14.2020 01:14 | | 07.14.2020 01:35 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 666985-007 | | 666985-008 | | 666985-009 | | 666985-010 | | 666985-011 | | 666985-012 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole #416 (2'BEB | | Bottom Hole #417 (2'BEB | | Bottom Hole #418 (2'BEB | | Bottom Hole #419 (2'BEB | | Bottom Hole #420 (2'BEB | | Bottom Hole #421 (2'BEB | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | |
| | *Analyzed:* | 07.16.2020 05:31 | | 07.16.2020 05:51 | | 07.16.2020 06:11 | | 07.16.2020 06:31 | | 07.16.2020 07:54 | | 07.16.2020 08:14 | |
| | *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 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Toluene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00397 | 0.00397 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | |
| | *Analyzed:* | 07.13.2020 19:39 | | 07.13.2020 19:44 | | 07.13.2020 19:49 | | 07.13.2020 19:54 | | 07.13.2020 19:59 | | 07.13.2020 20:14 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 13.8 | 4.98 | 8.33 | 5.00 | 8.89 | 5.00 | 46.5 | 5.00 | 35.7 | 4.95 | 47.9 | 5.02 |
| **TPH By SW8015 Mod** | *Extracted:* | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | |
| | *Analyzed:* | 07.14.2020 01:56 | | 07.14.2020 02:17 | | 07.14.2020 02:38 | | 07.14.2020 02:59 | | 07.14.2020 03:41 | | 07.14.2020 04:02 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-013 | | 666985-014 | | 666985-015 | | 666985-016 | | 666985-017 | | 666985-018 | |
| | ***Field Id:*** | Bottom Hole #422 (2'BEB | | Bottom Hole #423 (2'BEB | | Bottom Hole #424 (2'BEB | | Bottom Hole #425 (2'BEB | | Bottom Hole #426 (2'BEB | | Bottom Hole #427 (2'BEB | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.15.2020 16:00 | |
| | ***Analyzed:*** | 07.16.2020 08:34 | | 07.16.2020 08:55 | | 07.16.2020 09:15 | | 07.16.2020 09:36 | | 07.16.2020 09:58 | | 07.16.2020 10:19 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00401 | 0.00401 | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:00 | |
| | ***Analyzed:*** | 07.13.2020 20:19 | | 07.13.2020 20:34 | | 07.13.2020 20:39 | | 07.13.2020 20:45 | | 07.13.2020 20:50 | | 07.13.2020 20:55 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 49.3 | 4.99 | 15.8 | 4.97 | 48.2 | 5.04 | 23.1 | 4.97 | 26.7 | 4.99 | 8.58 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | |
| | ***Analyzed:*** | 07.14.2020 04:23 | | 07.14.2020 04:44 | | 07.14.2020 05:05 | | 07.14.2020 05:26 | | 07.14.2020 05:46 | | 07.14.2020 06:07 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 666985-019 | | 666985-020 | | 666985-021 | | 666985-022 | | 666985-023 | | 666985-024 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole #428 (2'BEB | | Bottom Hole #429(2'BEB | | Bottom Hole #430 (2'BEB | | Bottom Hole #431 (2'BEB | | Bottom Hole #432 (2'BEB | | Bottom Hole #433 (2'BEB | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 07.15.2020 16:00 | | 07.15.2020 16:00 | | 07.16.2020 10:00 | | 07.16.2020 10:00 | | 07.16.2020 10:00 | | 07.16.2020 10:00 | |
| | *Analyzed:* | 07.16.2020 11:33 | | 07.16.2020 11:55 | | 07.16.2020 15:39 | | 07.16.2020 16:01 | | 07.16.2020 16:23 | | 07.16.2020 16:47 | |
| | *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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Toluene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 07.13.2020 15:00 | | 07.13.2020 15:00 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | |
| | *Analyzed:* | 07.13.2020 21:00 | | 07.13.2020 21:05 | | 07.13.2020 21:35 | | 07.13.2020 21:50 | | 07.13.2020 21:55 | | 07.13.2020 22:00 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 46.2 | 4.95 | 20.9 | 5.04 | 35.3 | 5.00 | 63.0 | 5.03 | 32.2 | 4.99 | 28.6 | 5.00 |
| **TPH By SW8015 Mod** | *Extracted:* | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | |
| | *Analyzed:* | 07.14.2020 06:28 | | 07.14.2020 06:49 | | 07.13.2020 23:07 | | 07.14.2020 00:11 | | 07.14.2020 00:32 | | 07.14.2020 00:53 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 666985-025 | | 666985-026 | | 666985-027 | | 666985-028 | | 666985-029 | | 666985-030 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole #434 (2'BEB | | Bottom Hole #435 (2'BEB | | Bottom Hole #436 (2'BEB | | Bottom Hole #437 (2'BEB | | Bottom Hole #438 (2'BEB | | Bottom Hole #439 (2'BEB | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | | 07.07.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.16.2020 10:00 | |
| | *Analyzed:* | 07.16.2020 15:19 | | 07.16.2020 15:39 | | 07.16.2020 16:00 | | 07.16.2020 16:20 | | 07.16.2020 16:41 | | 07.16.2020 17:10 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00396 | 0.00396 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | |
| | *Analyzed:* | 07.13.2020 22:05 | | 07.13.2020 22:21 | | 07.13.2020 22:26 | | 07.13.2020 22:31 | | 07.13.2020 22:36 | | 07.13.2020 22:41 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 25.6 | 5.02 | 34.8 | 4.98 | 12.2 | 5.00 | 23.3 | 4.96 | 55.1 | 5.04 | 11.5 | 5.00 |
| **TPH By SW8015 Mod** | *Extracted:* | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | |
| | *Analyzed:* | 07.14.2020 01:14 | | 07.14.2020 01:35 | | 07.14.2020 01:56 | | 07.14.2020 02:17 | | 07.14.2020 02:38 | | 07.14.2020 02:59 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Total TPH | | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-031 | | 666985-032 | | 666985-033 | | 666985-034 | | 666985-035 | | 666985-036 | |
| | ***Field Id:*** | Bottom Hole #440 (2'BEB | | Bottom Hole #441 (2'BEB | | Bottom Hole #442 (2'BEB | | Bottom Hole #443 (2'BEB | | Bottom Hole #444 (2'BEB | | Bottom Hole #445 (2'BEB | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.15.2020 17:00 | |
| | ***Analyzed:*** | 07.16.2020 08:41 | | 07.16.2020 09:01 | | 07.16.2020 09:22 | | 07.16.2020 09:42 | | 07.16.2020 10:03 | | 07.16.2020 10:23 | |
| | ***Units/RL:*** | 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 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Toluene | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00404 | 0.00404 | <0.00401 | 0.00401 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | |
| | ***Analyzed:*** | 07.13.2020 22:46 | | 07.13.2020 23:01 | | 07.13.2020 23:06 | | 07.13.2020 23:21 | | 07.13.2020 23:27 | | 07.13.2020 23:32 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 9.98 | 4.98 | 9.00 | 5.03 | 9.82 | 4.96 | 8.65 | 4.95 | 8.40 | 4.95 | 8.12 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | |
| | ***Analyzed:*** | 07.14.2020 03:41 | | 07.14.2020 04:02 | | 07.14.2020 04:23 | | 07.14.2020 04:44 | | 07.14.2020 05:05 | | 07.14.2020 05:26 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | *Lab Id:* | 666985-037 | | 666985-038 | | 666985-039 | | 666985-040 | | 666985-041 | | 666985-042 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | Bottom Hole #446 (3'BEB | | Bottom Hole #447 (3'BEB | | Bottom Hole #448 (3'BEB | | Bottom Hole #449 (3'BEB | | Bottom Hole #450 (3'BEB | | Bottom Hole #451 (3'BEB | |
| | *Depth:* | | | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | *Extracted:* | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.15.2020 17:00 | | 07.14.2020 12:00 | | 07.14.2020 12:00 | |
| | *Analyzed:* | 07.16.2020 10:52 | | 07.16.2020 11:12 | | 07.16.2020 11:33 | | 07.16.2020 11:53 | | 07.14.2020 15:48 | | 07.14.2020 18:13 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00398 | 0.00398 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | *Extracted:* | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:15 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | |
| | *Analyzed:* | 07.13.2020 23:37 | | 07.13.2020 23:42 | | 07.13.2020 23:47 | | 07.13.2020 23:52 | | 07.14.2020 08:50 | | 07.14.2020 09:05 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 8.51 | 4.98 | 8.51 | 5.00 | 7.83 | 5.03 | 8.88 | 4.96 | 8.08 | 5.00 | 8.35 | 4.98 |
| **TPH By SW8015 Mod** | *Extracted:* | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.13.2020 16:30 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | |
| | *Analyzed:* | 07.14.2020 05:46 | | 07.14.2020 06:07 | | 07.14.2020 06:28 | | 07.14.2020 06:49 | | 07.14.2020 09:37 | | 07.14.2020 10:34 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-043 | | 666985-044 | | 666985-045 | | 666985-046 | | 666985-047 | | 666985-048 | |
| | ***Field Id:*** | Bottom Hole #452 (3'BEB | | Bottom Hole #453 (3'BEB | | Bottom Hole #454 (3'BEB | | Bottom Hole #455 (3'BEB | | Bottom Hole #456 (3'BEB | | Bottom Hole #457 (3'BEB | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.14.2020 12:00 | | 07.14.2020 12:00 | | 07.14.2020 12:00 | | 07.15.2020 08:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | |
| | ***Analyzed:*** | 07.14.2020 18:35 | | 07.14.2020 18:57 | | 07.14.2020 21:52 | | 07.15.2020 11:14 | | 07.15.2020 16:29 | | 07.15.2020 16:52 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00401 | 0.00401 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | |
| | ***Analyzed:*** | 07.14.2020 09:10 | | 07.14.2020 09:15 | | 07.14.2020 09:20 | | 07.14.2020 09:35 | | 07.14.2020 09:41 | | 07.14.2020 09:46 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 9.62 | 4.99 | 8.35 | 5.04 | 8.19 | 4.96 | 7.98 | 4.95 | 8.54 | 5.03 | 7.95 | 4.99 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | |
| | ***Analyzed:*** | 07.14.2020 10:52 | | 07.14.2020 11:11 | | 07.14.2020 11:30 | | 07.14.2020 11:49 | | 07.14.2020 12:08 | | 07.14.2020 12:27 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-049 | | 666985-050 | | 666985-051 | | 666985-052 | | 666985-053 | | 666985-054 | |
| | ***Field Id:*** | Bottom Hole #458 (3'BEB | | Bottom Hole #459 (3'BEB | | Bottom Hole #460 (3'BEB | | Bottom Hole #461 (3'BEB | | Bottom Hole #462 (3'BEB | | Bottom Hole #463 (3'BEB | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | |
| | ***Analyzed:*** | 07.15.2020 17:15 | | 07.15.2020 17:38 | | 07.15.2020 18:01 | | 07.15.2020 18:22 | | 07.15.2020 18:45 | | 07.15.2020 19:08 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Toluene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00396 | 0.00396 | <0.00401 | 0.00401 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | |
| | ***Analyzed:*** | 07.14.2020 09:51 | | 07.14.2020 09:56 | | 07.14.2020 10:01 | | 07.14.2020 10:16 | | 07.14.2020 10:21 | | 07.14.2020 10:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 8.28 | 4.95 | 7.80 | 4.98 | 8.25 | 5.00 | 7.90 | 5.02 | 9.74 | 4.98 | 7.55 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | |
| | ***Analyzed:*** | 07.14.2020 12:46 | | 07.15.2020 09:33 | | 07.14.2020 13:43 | | 07.14.2020 14:02 | | 07.14.2020 14:22 | | 07.14.2020 14:41 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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Jessica Kramer

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-055 | | 666985-056 | | 666985-057 | | 666985-058 | | 666985-059 | | 666985-060 | |
| | ***Field Id:*** | Bottom Hole #464 (3'BEB | | Bottom Hole #465 (3'BEB | | Bottom Hole #466 (3'BEB | | Bottom Hole #467 (3'BEB | | Bottom Hole #468 (3'BEB | | Bottom Hole #469 (3'BEB | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | |
| | ***Analyzed:*** | 07.15.2020 19:30 | | 07.15.2020 20:59 | | 07.15.2020 21:21 | | 07.15.2020 21:42 | | 07.15.2020 22:04 | | 07.15.2020 22:25 | |
| | ***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 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Toluene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00401 | 0.00401 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00396 | 0.00396 |
| o-Xylene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | | 07.13.2020 15:30 | |
| | ***Analyzed:*** | 07.14.2020 10:41 | | 07.14.2020 10:46 | | 07.14.2020 10:51 | | 07.14.2020 10:56 | | 07.14.2020 11:01 | | 07.14.2020 11:06 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 8.00 | 5.04 | 7.33 | 4.95 | 8.20 | 5.05 | 7.99 | 5.05 | 8.36 | 5.05 | 8.63 | 4.98 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | | 07.14.2020 09:00 | |
| | ***Analyzed:*** | 07.14.2020 15:00 | | 07.14.2020 15:19 | | 07.14.2020 15:38 | | 07.14.2020 15:58 | | 07.15.2020 09:51 | | 07.14.2020 16:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-061 | | 666985-062 | | 666985-063 | | 666985-064 | | 666985-065 | | 666985-066 | |
| | ***Field Id:*** | Bottom Hole #470 (2'BEB | | Bottom Hole #471 (2'BEB | | Bottom Hole #472 (2'BEB | | Bottom Hole #473 (1.5'BE | | Bottom Hole #474 (1.5'BE | | Bottom Hole #475 (1.5'BE | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 12:00 | | 07.15.2020 14:00 | |
| | ***Analyzed:*** | 07.15.2020 22:45 | | 07.15.2020 23:06 | | 07.15.2020 23:26 | | 07.15.2020 23:46 | | 07.16.2020 00:07 | | 07.15.2020 22:04 | |
| | ***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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| Toluene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00401 | 0.00401 | <0.00402 | 0.00402 | <0.00403 | 0.00403 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | |
| | ***Analyzed:*** | 07.13.2020 18:04 | | 07.13.2020 18:23 | | 07.13.2020 18:30 | | 07.13.2020 18:36 | | 07.13.2020 18:42 | | 07.13.2020 19:01 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <5.02 | 5.02 | <4.99 | 4.99 | <5.05 | 5.05 | <4.95 | 4.95 | <5.00 | 5.00 | <5.00 | 5.00 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | |
| | ***Analyzed:*** | 07.14.2020 18:30 | | 07.14.2020 19:29 | | 07.14.2020 19:48 | | 07.14.2020 20:07 | | 07.14.2020 20:26 | | 07.14.2020 20:45 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <50.0 | 50.0 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-067 | | 666985-068 | | 666985-069 | | 666985-070 | | 666985-071 | | 666985-072 | |
| | ***Field Id:*** | Bottom Hole #476 (1.5'BE | | Bottom Hole #477 (1.5'BE | | Bottom Hole #478 (2'BEB | | North 17 Sidewall | | North 12 Sidewall | | North 13 Sidewall | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | |
| | ***Analyzed:*** | 07.15.2020 11:35 | | 07.15.2020 11:55 | | 07.15.2020 12:16 | | 07.15.2020 12:36 | | 07.15.2020 12:57 | | 07.15.2020 13:17 | |
| | ***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 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| Toluene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00398 | 0.00398 | <0.00401 | 0.00401 | <0.00403 | 0.00403 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | |
| | ***Analyzed:*** | 07.13.2020 19:08 | | 07.13.2020 19:14 | | 07.13.2020 19:20 | | 07.13.2020 19:27 | | 07.13.2020 19:33 | | 07.13.2020 19:52 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <5.00 | 5.00 | <5.02 | 5.02 | <5.05 | 5.05 | <5.05 | 5.05 | 22.1 X | 5.05 | <4.98 | 4.98 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | |
| | ***Analyzed:*** | 07.14.2020 21:04 | | 07.14.2020 21:23 | | 07.14.2020 21:42 | | 07.14.2020 22:01 | | 07.14.2020 22:39 | | 07.14.2020 22:58 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-073 | | 666985-074 | | 666985-075 | | 666985-076 | | 666985-077 | | 666985-078 | |
| | ***Field Id:*** | North 14 Sidewall | | North 15 Sidewall | | North 16 Sidewall | | South 10 Sidewall | | South 11 Sidewall | | South 12 Sidewall | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | |
| | ***Analyzed:*** | 07.15.2020 13:38 | | 07.15.2020 13:59 | | 07.15.2020 14:19 | | 07.15.2020 15:43 | | 07.15.2020 16:03 | | 07.15.2020 16:24 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00396 | 0.00396 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.13.2020 15:50 | |
| | ***Analyzed:*** | 07.13.2020 19:59 | | 07.13.2020 20:18 | | 07.13.2020 20:24 | | 07.13.2020 20:30 | | 07.13.2020 20:37 | | 07.13.2020 20:43 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <4.96 | 4.96 | <4.99 | 4.99 | <5.03 | 5.03 | 22.7 | 4.96 | <4.99 | 4.99 | <5.04 | 5.04 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | |
| | ***Analyzed:*** | 07.14.2020 23:17 | | 07.14.2020 23:36 | | 07.14.2020 23:54 | | 07.15.2020 00:13 | | 07.15.2020 00:32 | | 07.15.2020 00:50 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-079 | | 666985-080 | | 666985-081 | | 666985-082 | | 666985-083 | | 666985-084 | |
| | ***Field Id:*** | South 13 Sidewall | | South 14 Sidewall | | East 10 Sidewall | | East 11 Sidewall | | East 12 Sidewall | | East 13 Sidewall | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | | 07.15.2020 08:00 | |
| | ***Analyzed:*** | 07.15.2020 16:44 | | 07.15.2020 17:05 | | 07.15.2020 17:26 | | 07.15.2020 17:46 | | 07.15.2020 18:07 | | 07.15.2020 18:27 | |
| | ***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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Toluene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.13.2020 15:50 | | 07.13.2020 15:50 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | |
| | ***Analyzed:*** | 07.13.2020 20:49 | | 07.13.2020 20:56 | | 07.14.2020 11:32 | | 07.14.2020 11:38 | | 07.14.2020 11:45 | | 07.14.2020 11:51 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <5.00 | 5.00 | <5.00 | 5.00 | <5.00 | 5.00 | <5.03 | 5.03 | <4.96 | 4.96 | <5.05 | 5.05 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | |
| | ***Analyzed:*** | 07.15.2020 01:09 | | 07.15.2020 01:28 | | 07.13.2020 17:20 | | 07.13.2020 18:19 | | 07.13.2020 18:38 | | 07.13.2020 18:57 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-085 | | 666985-086 | | 666985-087 | | 666985-088 | | 666985-089 | | 666985-090 | |
| | ***Field Id:*** | East 14 Sidewall | | East 15 Sidewall | | East 16 Sidewall | | East 17 Sidewall | | East 18 Sidewall | | East 19 Sidewall | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 08:00 | | 07.15.2020 12:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | |
| | ***Analyzed:*** | 07.15.2020 18:48 | | 07.15.2020 16:06 | | 07.15.2020 22:24 | | 07.15.2020 22:45 | | 07.15.2020 23:05 | | 07.15.2020 23:26 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Toluene | | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00397 | 0.00397 | <0.00403 | 0.00403 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00402 | 0.00402 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | |
| | ***Analyzed:*** | 07.14.2020 11:58 | | 07.14.2020 12:17 | | 07.14.2020 12:23 | | 07.14.2020 12:42 | | 07.14.2020 12:48 | | 07.14.2020 12:55 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <4.98 | 4.98 | <5.04 | 5.04 | <4.95 | 4.95 | <4.95 | 4.95 | <4.95 | 4.95 | <5.05 | 5.05 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | |
| | ***Analyzed:*** | 07.13.2020 19:16 | | 07.13.2020 19:36 | | 07.13.2020 19:55 | | 07.13.2020 20:14 | | 07.13.2020 20:33 | | 07.13.2020 20:52 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-091 | | 666985-092 | | 666985-093 | | 666985-094 | | 666985-095 | | 666985-096 | |
| | ***Field Id:*** | East 20 Sidewall | | West 12 Sidewall | | West 13 Sidewall | | West 14 Sidewall | | West 15 Sidewall | | West 16 Sidewall | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | |
| | ***Analyzed:*** | 07.15.2020 23:46 | | 07.16.2020 00:07 | | 07.16.2020 00:27 | | 07.16.2020 00:47 | | 07.16.2020 01:08 | | 07.16.2020 02:32 | |
| | ***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 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Toluene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00400 | 0.00400 | <0.00397 | 0.00397 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:00 | | 07.14.2020 10:30 | | 07.14.2020 10:30 | |
| | ***Analyzed:*** | 07.14.2020 13:01 | | 07.14.2020 13:07 | | 07.14.2020 13:14 | | 07.14.2020 13:20 | | 07.14.2020 12:03 | | 07.14.2020 12:18 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <4.96 | 4.96 | 22.8 | 4.99 | <4.98 | 4.98 | <4.97 | 4.97 | 7.52 | 5.00 | 7.89 | 5.03 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | |
| | ***Analyzed:*** | 07.13.2020 21:31 | | 07.13.2020 21:50 | | 07.13.2020 22:09 | | 07.13.2020 22:28 | | 07.13.2020 22:47 | | 07.13.2020 23:06 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

### Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-097 | | 666985-098 | | 666985-099 | | 666985-100 | | 666985-101 | | 666985-102 | |
| | ***Field Id:*** | West 17 Sidewall | | West 18 Sidewall | | West 19 Sidewall | | West 20 Sidewall | | West 21 Sidewall | | West 22 Sidewall | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | |
| | ***Analyzed:*** | 07.16.2020 02:52 | | 07.16.2020 03:12 | | 07.16.2020 03:33 | | 07.16.2020 03:53 | | 07.16.2020 04:14 | | 07.16.2020 04:34 | |
| | ***Units/RL:*** | 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 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Toluene | | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00396 | 0.00396 | <0.00400 | 0.00400 | <0.00400 | 0.00400 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.14.2020 10:30 | | 07.14.2020 10:30 | | 07.14.2020 10:30 | | 07.14.2020 10:30 | | 07.14.2020 10:30 | | 07.14.2020 10:30 | |
| | ***Analyzed:*** | 07.14.2020 12:24 | | 07.14.2020 12:29 | | 07.14.2020 12:34 | | 07.14.2020 12:49 | | 07.14.2020 12:54 | | 07.14.2020 12:59 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 7.41 | 4.98 | 7.85 | 4.96 | 7.54 | 5.05 | 8.24 | 5.05 | 7.87 | 4.99 | 8.36 | 4.95 |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 17:00 | | 07.13.2020 12:00 | | 07.13.2020 12:00 | |
| | ***Analyzed:*** | 07.13.2020 23:25 | | 07.13.2020 23:44 | | 07.14.2020 00:03 | | 07.14.2020 00:21 | | 07.13.2020 19:54 | | 07.13.2020 20:15 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |

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# Certificate of Analysis Summary 666985

## Tetra Tech- Midland, Midland, TX

## Project Name: EOG Rattlesnake Reuse Pit

**Project Id:** 212C-MD-01974
**Contact:** Mike Carmona
**Project Location:** Lea Co, NM

**Date Received in Lab:** Mon 07.13.2020 11:23
**Report Date:** 07.17.2020 10:04
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 666985-103 | | 666985-104 | | 666985-105 | | | | | |
| | ***Field Id:*** | South 15 | | East 21 | | West 23 | | | | | |
| | ***Depth:*** | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | 07.10.2020 00:00 | | 07.10.2020 00:00 | | 07.10.2020 00:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 07.15.2020 14:00 | | 07.15.2020 14:00 | | 07.15.2020 14:00 | | | | | |
| | ***Analyzed:*** | 07.16.2020 04:55 | | 07.16.2020 05:15 | | 07.16.2020 05:35 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | | | | |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | | | | |
| **Inorganic Anions by EPA 300/300.1** | ***Extracted:*** | 07.14.2020 10:30 | | 07.14.2020 10:30 | | 07.14.2020 10:30 | | | | | |
| | ***Analyzed:*** | 07.14.2020 13:04 | | 07.14.2020 13:09 | | 07.14.2020 13:14 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 8.02 | 4.95 | 7.34 | 5.02 | 8.48 | 5.00 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | 07.13.2020 12:00 | | 07.13.2020 12:00 | | 07.13.2020 12:00 | | | | | |
| | ***Analyzed:*** | 07.13.2020 20:37 | | 07.13.2020 20:59 | | 07.13.2020 21:20 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | | | | |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | | | | |
| Total TPH | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | | | | |

BRL - Below Reporting Limit

Jessica Kramer

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# Analytical Report 666985

## for

## Tetra Tech- Midland

**Project Manager: Mike Carmona**

**EOG Rattlesnake Reuse Pit**

**212C-MD-01974**

**07.17.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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07.17.2020

Project Manager: **Mike Carmona**
**Tetra Tech- Midland**
901 West Wall ST
Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **666985**
**EOG Rattlesnake Reuse Pit**
Project Address: Lea Co, NM

**Mike Carmona**:

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 Eurofins Xenco, LLC Report Number(s) 666985. 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 Eurofins Xenco, LLC. 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. 666985 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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

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# Sample Cross Reference 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| Bottom Hole #410 (2'BEB) | S | 07.07.2020 00:00 | | 666985-001 |
| Bottom Hole #411 (2'BEB) | S | 07.07.2020 00:00 | | 666985-002 |
| Bottom Hole #412 (2'BEB) | S | 07.07.2020 00:00 | | 666985-003 |
| Bottom Hole #413 (2'BEB) | S | 07.07.2020 00:00 | | 666985-004 |
| Bottom Hole #414 (2'BEB) | S | 07.07.2020 00:00 | | 666985-005 |
| Bottom Hole #415 (2'BEB) | S | 07.07.2020 00:00 | | 666985-006 |
| Bottom Hole #416 (2'BEB) | S | 07.07.2020 00:00 | | 666985-007 |
| Bottom Hole #417 (2'BEB) | S | 07.07.2020 00:00 | | 666985-008 |
| Bottom Hole #418 (2'BEB) | S | 07.07.2020 00:00 | | 666985-009 |
| Bottom Hole #419 (2'BEB) | S | 07.07.2020 00:00 | | 666985-010 |
| Bottom Hole #420 (2'BEB) | S | 07.07.2020 00:00 | | 666985-011 |
| Bottom Hole #421 (2'BEB) | S | 07.07.2020 00:00 | | 666985-012 |
| Bottom Hole #422 (2'BEB) | S | 07.07.2020 00:00 | | 666985-013 |
| Bottom Hole #423 (2'BEB) | S | 07.07.2020 00:00 | | 666985-014 |
| Bottom Hole #424 (2'BEB) | S | 07.07.2020 00:00 | | 666985-015 |
| Bottom Hole #425 (2'BEB) | S | 07.07.2020 00:00 | | 666985-016 |
| Bottom Hole #426 (2'BEB) | S | 07.07.2020 00:00 | | 666985-017 |
| Bottom Hole #427 (2'BEB) | S | 07.07.2020 00:00 | | 666985-018 |
| Bottom Hole #428 (2'BEB) | S | 07.07.2020 00:00 | | 666985-019 |
| Bottom Hole #429(2'BEB) | S | 07.07.2020 00:00 | | 666985-020 |
| Bottom Hole #430 (2'BEB) | S | 07.07.2020 00:00 | | 666985-021 |
| Bottom Hole #431 (2'BEB) | S | 07.07.2020 00:00 | | 666985-022 |
| Bottom Hole #432 (2'BEB) | S | 07.07.2020 00:00 | | 666985-023 |
| Bottom Hole #433 (2'BEB) | S | 07.07.2020 00:00 | | 666985-024 |
| Bottom Hole #434 (2'BEB) | S | 07.07.2020 00:00 | | 666985-025 |
| Bottom Hole #435 (2'BEB) | S | 07.07.2020 00:00 | | 666985-026 |
| Bottom Hole #436 (2'BEB) | S | 07.07.2020 00:00 | | 666985-027 |
| Bottom Hole #437 (2'BEB) | S | 07.07.2020 00:00 | | 666985-028 |
| Bottom Hole #438 (2'BEB) | S | 07.07.2020 00:00 | | 666985-029 |
| Bottom Hole #439 (2'BEB) | S | 07.07.2020 00:00 | | 666985-030 |
| Bottom Hole #440 (2'BEB) | S | 07.10.2020 00:00 | | 666985-031 |
| Bottom Hole #441 (2'BEB) | S | 07.10.2020 00:00 | | 666985-032 |
| Bottom Hole #442 (2'BEB) | S | 07.10.2020 00:00 | | 666985-033 |
| Bottom Hole #443 (2'BEB) | S | 07.10.2020 00:00 | | 666985-034 |
| Bottom Hole #444 (2'BEB) | S | 07.10.2020 00:00 | | 666985-035 |
| Bottom Hole #445 (2'BEB) | S | 07.10.2020 00:00 | | 666985-036 |
| Bottom Hole #446 (3'BEB) | S | 07.10.2020 00:00 | | 666985-037 |
| Bottom Hole #447 (3'BEB) | S | 07.10.2020 00:00 | | 666985-038 |
| Bottom Hole #448 (3'BEB) | S | 07.10.2020 00:00 | | 666985-039 |
| Bottom Hole #449 (3'BEB) | S | 07.10.2020 00:00 | | 666985-040 |
| Bottom Hole #450 (3'BEB) | S | 07.10.2020 00:00 | | 666985-041 |
| Bottom Hole #451 (3'BEB) | S | 07.10.2020 00:00 | | 666985-042 |
| Bottom Hole #452 (3'BEB) | S | 07.10.2020 00:00 | | 666985-043 |

# Sample Cross Reference 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | |
|---|---|---|---|
| Bottom Hole #453 (3'BEB) | S | 07.10.2020 00:00 | 666985-044 |
| Bottom Hole #454 (3'BEB) | S | 07.10.2020 00:00 | 666985-045 |
| Bottom Hole #455 (3'BEB) | S | 07.10.2020 00:00 | 666985-046 |
| Bottom Hole #456 (3'BEB) | S | 07.10.2020 00:00 | 666985-047 |
| Bottom Hole #457 (3'BEB) | S | 07.10.2020 00:00 | 666985-048 |
| Bottom Hole #458 (3'BEB) | S | 07.10.2020 00:00 | 666985-049 |
| Bottom Hole #459 (3'BEB) | S | 07.10.2020 00:00 | 666985-050 |
| Bottom Hole #460 (3'BEB) | S | 07.10.2020 00:00 | 666985-051 |
| Bottom Hole #461 (3'BEB) | S | 07.10.2020 00:00 | 666985-052 |
| Bottom Hole #462 (3'BEB) | S | 07.10.2020 00:00 | 666985-053 |
| Bottom Hole #463 (3'BEB) | S | 07.10.2020 00:00 | 666985-054 |
| Bottom Hole #464 (3'BEB) | S | 07.10.2020 00:00 | 666985-055 |
| Bottom Hole #465 (3'BEB) | S | 07.10.2020 00:00 | 666985-056 |
| Bottom Hole #466 (3'BEB) | S | 07.10.2020 00:00 | 666985-057 |
| Bottom Hole #467 (3'BEB) | S | 07.10.2020 00:00 | 666985-058 |
| Bottom Hole #468 (3'BEB) | S | 07.10.2020 00:00 | 666985-059 |
| Bottom Hole #469 (3'BEB) | S | 07.10.2020 00:00 | 666985-060 |
| Bottom Hole #470 (2'BEB) | S | 07.10.2020 00:00 | 666985-061 |
| Bottom Hole #471 (2'BEB) | S | 07.10.2020 00:00 | 666985-062 |
| Bottom Hole #472 (2'BEB) | S | 07.10.2020 00:00 | 666985-063 |
| Bottom Hole #473 (1.5'BEB) | S | 07.10.2020 00:00 | 666985-064 |
| Bottom Hole #474 (1.5'BEB) | S | 07.10.2020 00:00 | 666985-065 |
| Bottom Hole #475 (1.5'BEB) | S | 07.10.2020 00:00 | 666985-066 |
| Bottom Hole #476 (1.5'BEB) | S | 07.10.2020 00:00 | 666985-067 |
| Bottom Hole #477 (1.5'BEB) | S | 07.10.2020 00:00 | 666985-068 |
| Bottom Hole #478 (2'BEB) | S | 07.10.2020 00:00 | 666985-069 |
| North 17 Sidewall | S | 07.10.2020 00:00 | 666985-070 |
| North 12 Sidewall | S | 07.10.2020 00:00 | 666985-071 |
| North 13 Sidewall | S | 07.10.2020 00:00 | 666985-072 |
| North 14 Sidewall | S | 07.10.2020 00:00 | 666985-073 |
| North 15 Sidewall | S | 07.10.2020 00:00 | 666985-074 |
| North 16 Sidewall | S | 07.10.2020 00:00 | 666985-075 |
| South 10 Sidewall | S | 07.10.2020 00:00 | 666985-076 |
| South 11 Sidewall | S | 07.10.2020 00:00 | 666985-077 |
| South 12 Sidewall | S | 07.10.2020 00:00 | 666985-078 |
| South 13 Sidewall | S | 07.10.2020 00:00 | 666985-079 |
| South 14 Sidewall | S | 07.10.2020 00:00 | 666985-080 |
| East 10 Sidewall | S | 07.10.2020 00:00 | 666985-081 |
| East 11 Sidewall | S | 07.10.2020 00:00 | 666985-082 |
| East 12 Sidewall | S | 07.10.2020 00:00 | 666985-083 |
| East 13 Sidewall | S | 07.10.2020 00:00 | 666985-084 |
| East 14 Sidewall | S | 07.10.2020 00:00 | 666985-085 |
| East 15 Sidewall | S | 07.10.2020 00:00 | 666985-086 |
| East 16 Sidewall | S | 07.10.2020 00:00 | 666985-087 |

# Sample Cross Reference 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | |
|---|---|---|---|
| East 17 Sidewall | S | 07.10.2020 00:00 | 666985-088 |
| East 18 Sidewall | S | 07.10.2020 00:00 | 666985-089 |
| East 19 Sidewall | S | 07.10.2020 00:00 | 666985-090 |
| East 20 Sidewall | S | 07.10.2020 00:00 | 666985-091 |
| West 12 Sidewall | S | 07.10.2020 00:00 | 666985-092 |
| West 13 Sidewall | S | 07.10.2020 00:00 | 666985-093 |
| West 14 Sidewall | S | 07.10.2020 00:00 | 666985-094 |
| West 15 Sidewall | S | 07.10.2020 00:00 | 666985-095 |
| West 16 Sidewall | S | 07.10.2020 00:00 | 666985-096 |
| West 17 Sidewall | S | 07.10.2020 00:00 | 666985-097 |
| West 18 Sidewall | S | 07.10.2020 00:00 | 666985-098 |
| West 19 Sidewall | S | 07.10.2020 00:00 | 666985-099 |
| West 20 Sidewall | S | 07.10.2020 00:00 | 666985-100 |
| West 21 Sidewall | S | 07.10.2020 00:00 | 666985-101 |
| West 22 Sidewall | S | 07.10.2020 00:00 | 666985-102 |
| South 15 | S | 07.10.2020 00:00 | 666985-103 |
| East 21 | S | 07.10.2020 00:00 | 666985-104 |
| West 23 | S | 07.10.2020 00:00 | 666985-105 |

# CASE NARRATIVE



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***Client Name: Tetra Tech- Midland***

***Project Name: EOG Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *666985*

Report Date: *07.17.2020*
Date Received: *07.13.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3131509 Inorganic Anions by EPA 300/300.1

Lab Sample ID 666985-071 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: 666985-061, -062, -063, -064, -065, -066, -067, -068, -069, -070, -071, -072, -073, -074, -075, -076, -077, -078, -079, -080.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3131556 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 666985-097,666985-099,666985-098.

Batch: LBA-3131680 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7707333-1-BLK.

Batch: LBA-3131683 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7707334-1-BLK,666985-067.

Batch: LBA-3131764 BTEX by EPA 8021B

Lab Sample ID 666985-061 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, m,p-Xylenes 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: 666985-047, -048, -049, -050, -051, -052, -053, -054, -055, -056, -057, -058, -059, -060, -061, -062, -063, -064, -065, -086.
The Laboratory Control Sample for Benzene, m,p-Xylenes is within laboratory Control Limits, therefore the data was accepted.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 666985-052,666985-062,666985-055,666985-053.

# CASE NARRATIVE



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***Client Name: Tetra Tech- Midland***

***Project Name: EOG Rattlesnake Reuse Pit***

Project ID: *212C-MD-01974*
Work Order Number(s): *666985*

Report Date: *07.17.2020*
Date Received: *07.13.2020*

Batch: LBA-3131814 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 666985-008,666985-010,666985-020,666985-017,666985-019,666985-016.

Batch: LBA-3131855 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 666985-031.

Batch: LBA-3131871 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 666985-030.

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #410 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-001 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:00 Basis: Wet Weight

Seq Number: 3131506

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **44.1** | 4.96 | mg/kg | 07.13.2020 18:48 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131558

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 23:07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 23:07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 23:07 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 23:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-130 | 07.13.2020 23:07 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-130 | 07.13.2020 23:07 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #410 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-001 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 03:29 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 03:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 03:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 03:29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 03:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 03:29 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 03:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 07.16.2020 03:29 | |
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 07.16.2020 03:29 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #411 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-002 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:00 Basis: Wet Weight

Seq Number: 3131506

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **46.0** | 5.03 | mg/kg | 07.13.2020 19:03 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131558

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:11 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 00:11 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:11 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 07.14.2020 00:11 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 07.14.2020 00:11 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #411 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-002 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:50 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 07.16.2020 03:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:50 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 07.16.2020 03:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.16.2020 03:50 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #412 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-003 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **45.5** | 4.98 | mg/kg | 07.13.2020 19:08 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 00:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 00:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 00:32 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 00:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-130 | 07.14.2020 00:32 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-130 | 07.14.2020 00:32 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #412 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-003 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 04:10 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 04:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 04:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.16.2020 04:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 04:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 04:10 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.16.2020 04:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 07.16.2020 04:10 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.16.2020 04:10 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #413 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-004 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:00 Basis: Wet Weight

Seq Number: 3131506

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **16.8** | 4.99 | mg/kg | 07.13.2020 19:13 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131558

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 00:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:53 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 07.14.2020 00:53 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-130 | 07.14.2020 00:53 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #413 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-004 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:30 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.16.2020 04:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:30 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 07.16.2020 04:30 | |
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 07.16.2020 04:30 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #414 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-005 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.22** | 5.04 | mg/kg | 07.13.2020 19:18 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 01:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 01:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 01:14 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 01:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 07.14.2020 01:14 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-130 | 07.14.2020 01:14 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #414 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-005 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:50 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 04:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:50 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 07.16.2020 04:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 07.16.2020 04:50 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #415 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-006 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:00 Basis: Wet Weight

Seq Number: 3131506

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.5** | 4.96 | mg/kg | 07.13.2020 19:34 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131558

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 01:35 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 01:35 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 01:35 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 01:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-130 | 07.14.2020 01:35 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 07.14.2020 01:35 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #415 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-006 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:11 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:11 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:11 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 05:11 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:11 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:11 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 07.16.2020 05:11 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 07.16.2020 05:11 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #416 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-007 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **13.8** | 4.98 | mg/kg | 07.13.2020 19:39 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 01:56 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 01:56 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 01:56 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 01:56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-130 | 07.14.2020 01:56 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 07.14.2020 01:56 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #416 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-007 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:31 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:31 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.16.2020 05:31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:31 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 07.16.2020 05:31 | |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 07.16.2020 05:31 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #417 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-008 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.33** | 5.00 | mg/kg | 07.13.2020 19:44 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 02:17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 02:17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 02:17 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 02:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 07.14.2020 02:17 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 07.14.2020 02:17 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #417 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-008 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 05:51 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 05:51 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 05:51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.16.2020 05:51 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 05:51 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 05:51 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.16.2020 05:51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 07.16.2020 05:51 | |
| 4-Bromofluorobenzene | 460-00-4 | 133 | % | 70-130 | 07.16.2020 05:51 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #418 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-009 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:00 Basis: Wet Weight

Seq Number: 3131506

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.89** | 5.00 | mg/kg | 07.13.2020 19:49 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131558

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 02:38 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 02:38 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 02:38 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 02:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-130 | 07.14.2020 02:38 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 07.14.2020 02:38 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #418 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-009 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 06:11 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 06:11 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 06:11 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.16.2020 06:11 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 06:11 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 06:11 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 06:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 128 | % | 70-130 | 07.16.2020 06:11 | |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 07.16.2020 06:11 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #419 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-010 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **46.5** | 5.00 | mg/kg | 07.13.2020 19:54 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 02:59 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 02:59 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 02:59 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 02:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 83 | % | 70-130 | 07.14.2020 02:59 | |
| o-Terphenyl | 84-15-1 | 84 | % | 70-130 | 07.14.2020 02:59 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #419 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-010 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 06:31 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 06:31 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 06:31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 06:31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 06:31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 06:31 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 06:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 131 | % | 70-130 | 07.16.2020 06:31 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 07.16.2020 06:31 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #420 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-011 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:00 Basis: Wet Weight

Seq Number: 3131506

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **35.7** | 4.95 | mg/kg | 07.13.2020 19:59 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131558

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 03:41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 03:41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 03:41 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 03:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 07.14.2020 03:41 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-130 | 07.14.2020 03:41 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #420 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-011 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 07:54 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 07:54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 07:54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.16.2020 07:54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 07:54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 07:54 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 07:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.16.2020 07:54 | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 07.16.2020 07:54 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #421 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-012 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:00 Basis: Wet Weight

Seq Number: 3131506

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **47.9** | 5.02 | mg/kg | 07.13.2020 20:14 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131558

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 04:02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 04:02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 04:02 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 04:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-130 | 07.14.2020 04:02 | |
| o-Terphenyl | 84-15-1 | 86 | % | 70-130 | 07.14.2020 04:02 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #421 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-012 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 08:14 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 08:14 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 08:14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.16.2020 08:14 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 08:14 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 08:14 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.16.2020 08:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 07.16.2020 08:14 | |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 07.16.2020 08:14 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #422 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-013 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **49.3** | 4.99 | mg/kg | 07.13.2020 20:19 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 04:23 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 04:23 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 04:23 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 04:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-130 | 07.14.2020 04:23 | |
| o-Terphenyl | 84-15-1 | 82 | % | 70-130 | 07.14.2020 04:23 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #422 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-013 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 08:34 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 08:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 08:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 08:34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 08:34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 08:34 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 08:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 07.16.2020 08:34 | |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 07.16.2020 08:34 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #423 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-014 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **15.8** | 4.97 | mg/kg | 07.13.2020 20:34 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 04:44 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 04:44 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 04:44 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 04:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 07.14.2020 04:44 | |
| o-Terphenyl | 84-15-1 | 87 | % | 70-130 | 07.14.2020 04:44 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #423 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-014 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 08:55 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 08:55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 08:55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.16.2020 08:55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 08:55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 08:55 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 08:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 07.16.2020 08:55 | |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 07.16.2020 08:55 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #424 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-015 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **48.2** | 5.04 | mg/kg | 07.13.2020 20:39 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:05 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 05:05 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:05 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 07.14.2020 05:05 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 07.14.2020 05:05 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #424 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-015 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:15 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.16.2020 09:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:15 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 07.16.2020 09:15 | |
| 4-Bromofluorobenzene | 460-00-4 | 126 | % | 70-130 | 07.16.2020 09:15 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #425 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-016 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:00 Basis: Wet Weight

Seq Number: 3131506

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **23.1** | 4.97 | mg/kg | 07.13.2020 20:45 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131558

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:26 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 05:26 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:26 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-130 | 07.14.2020 05:26 | |
| o-Terphenyl | 84-15-1 | 84 | % | 70-130 | 07.14.2020 05:26 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #425 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-016 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 09:36 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 09:36 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 09:36 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.16.2020 09:36 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 09:36 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 09:36 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.16.2020 09:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 07.16.2020 09:36 | |
| 4-Bromofluorobenzene | 460-00-4 | 131 | % | 70-130 | 07.16.2020 09:36 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #426 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-017 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **26.7** | 4.99 | mg/kg | 07.13.2020 20:50 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 05:46 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 05:46 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 05:46 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 05:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 07.14.2020 05:46 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 07.14.2020 05:46 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #426 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-017 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:58 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:58 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:58 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.16.2020 09:58 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:58 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:58 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 07.16.2020 09:58 | |
| 4-Bromofluorobenzene | 460-00-4 | 136 | % | 70-130 | 07.16.2020 09:58 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #427 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-018 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.58** | 4.95 | mg/kg | 07.13.2020 20:55 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 06:07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 06:07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 06:07 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 06:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 07.14.2020 06:07 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-130 | 07.14.2020 06:07 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #427 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-018 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:19 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 10:19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:19 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 07.16.2020 10:19 | |
| 1,4-Difluorobenzene | 540-36-3 | 81 | % | 70-130 | 07.16.2020 10:19 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #428 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-019 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **46.2** | 4.95 | mg/kg | 07.13.2020 21:00 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 06:28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 06:28 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 06:28 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 06:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 07.14.2020 06:28 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-130 | 07.14.2020 06:28 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #428 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-019 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 11:33 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 11:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 11:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.16.2020 11:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 11:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 11:33 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.16.2020 11:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 07.16.2020 11:33 | |
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 07.16.2020 11:33 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #429(2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-020 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:00 | Basis: | Wet Weight |
| Seq Number: | 3131506 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **20.9** | 5.04 | mg/kg | 07.13.2020 21:05 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131558 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 06:49 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 06:49 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 06:49 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 06:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-130 | 07.14.2020 06:49 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 07.14.2020 06:49 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #429(2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-020 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 16:00 | Basis: | Wet Weight |
| Seq Number: | 3131814 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:55 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 11:55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:55 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 07.16.2020 11:55 | |
| 4-Bromofluorobenzene | 460-00-4 | 138 | % | 70-130 | 07.16.2020 11:55 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #430 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-021 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:15 Basis: Wet Weight

Seq Number: 3131507

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **35.3** | 5.00 | mg/kg | 07.13.2020 21:35 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131560

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 23:07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 23:07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 23:07 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 23:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-130 | 07.13.2020 23:07 | |
| o-Terphenyl | 84-15-1 | 87 | % | 70-130 | 07.13.2020 23:07 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #430 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-021 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.16.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131871 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 15:39 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 15:39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 15:39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.16.2020 15:39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 15:39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 15:39 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 15:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 126 | % | 70-130 | 07.16.2020 15:39 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.16.2020 15:39 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #431 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-022 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **63.0** | 5.03 | mg/kg | 07.13.2020 21:50 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 00:11 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 00:11 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 00:11 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 00:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-130 | 07.14.2020 00:11 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 07.14.2020 00:11 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #431 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-022 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.16.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131871 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 16:01 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 16:01 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 16:01 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.16.2020 16:01 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 16:01 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 16:01 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.16.2020 16:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 07.16.2020 16:01 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.16.2020 16:01 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #432 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-023 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **32.2** | 4.99 | mg/kg | 07.13.2020 21:55 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 00:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:32 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 80 | % | 70-130 | 07.14.2020 00:32 | |
| o-Terphenyl | 84-15-1 | 76 | % | 70-130 | 07.14.2020 00:32 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #432 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-023 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.16.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131871 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:23 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 16:23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:23 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 07.16.2020 16:23 | |
| 1,4-Difluorobenzene | 540-36-3 | 79 | % | 70-130 | 07.16.2020 16:23 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #433 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-024 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **28.6** | 5.00 | mg/kg | 07.13.2020 22:00 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 00:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:53 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 80 | % | 70-130 | 07.14.2020 00:53 | |
| o-Terphenyl | 84-15-1 | 80 | % | 70-130 | 07.14.2020 00:53 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #433 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-024 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.16.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131871 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:47 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:47 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:47 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.16.2020 16:47 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:47 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:47 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 07.16.2020 16:47 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.16.2020 16:47 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #434 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-025 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:15 Basis: Wet Weight

Seq Number: 3131507

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **25.6** | 5.02 | mg/kg | 07.13.2020 22:05 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131560

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 01:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 01:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 01:14 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 01:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 81 | % | 70-130 | 07.14.2020 01:14 | |
| o-Terphenyl | 84-15-1 | 79 | % | 70-130 | 07.14.2020 01:14 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #434 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-025 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:19 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 15:19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:19 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 97 | % | 70-130 | 07.16.2020 15:19 | |
| 1,4-Difluorobenzene | 540-36-3 | 118 | % | 70-130 | 07.16.2020 15:19 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #435 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-026 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:15 Basis: Wet Weight

Seq Number: 3131507

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **34.8** | 4.98 | mg/kg | 07.13.2020 22:21 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131560

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 01:35 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 01:35 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 01:35 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 01:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 07.14.2020 01:35 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-130 | 07.14.2020 01:35 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #435 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-026 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:39 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 15:39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:39 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 15:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 95 | % | 70-130 | 07.16.2020 15:39 | |
| 1,4-Difluorobenzene | 540-36-3 | 118 | % | 70-130 | 07.16.2020 15:39 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #436 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-027 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:15 Basis: Wet Weight

Seq Number: 3131507

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **12.2** | 5.00 | mg/kg | 07.13.2020 22:26 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131560

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 01:56 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 01:56 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 01:56 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 01:56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 78 | % | 70-130 | 07.14.2020 01:56 | |
| o-Terphenyl | 84-15-1 | 83 | % | 70-130 | 07.14.2020 01:56 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #436 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-027 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:00 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 16:00 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:00 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 16:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 118 | % | 70-130 | 07.16.2020 16:00 | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 07.16.2020 16:00 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #437 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-028 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **23.3** | 4.96 | mg/kg | 07.13.2020 22:31 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 02:17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 02:17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 02:17 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 02:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 81 | % | 70-130 | 07.14.2020 02:17 | |
| o-Terphenyl | 84-15-1 | 86 | % | 70-130 | 07.14.2020 02:17 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #437 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-028 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:20 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:20 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:20 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.16.2020 16:20 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:20 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:20 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.16.2020 16:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 07.16.2020 16:20 | |
| 1,4-Difluorobenzene | 540-36-3 | 117 | % | 70-130 | 07.16.2020 16:20 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #438 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-029 Date Collected: 07.07.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:15 Basis: Wet Weight

Seq Number: 3131507

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **55.1** | 5.04 | mg/kg | 07.13.2020 22:36 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131560

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 02:38 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 02:38 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 02:38 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 02:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 07.14.2020 02:38 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-130 | 07.14.2020 02:38 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #438 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-029 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 16:41 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 16:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 16:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.16.2020 16:41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 16:41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 16:41 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 16:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 07.16.2020 16:41 | |
| 1,4-Difluorobenzene | 540-36-3 | 116 | % | 70-130 | 07.16.2020 16:41 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #439 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-030 | Date Collected: | 07.07.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **11.5** | 5.00 | mg/kg | 07.13.2020 22:41 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 02:59 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 02:59 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 02:59 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 02:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 81 | % | 70-130 | 07.14.2020 02:59 | |
| o-Terphenyl | 84-15-1 | 86 | % | 70-130 | 07.14.2020 02:59 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #439 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-030 | Date Collected: | 07.07.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.16.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131871 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 17:10 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 17:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 17:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 07.16.2020 17:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 17:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 17:10 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.16.2020 17:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.16.2020 17:10 | |
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 07.16.2020 17:10 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #440 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-031 Date Collected: 07.10.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:15 Basis: Wet Weight

Seq Number: 3131507

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.98** | 4.98 | mg/kg | 07.13.2020 22:46 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131560

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 03:41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 03:41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 03:41 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 03:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 78 | % | 70-130 | 07.14.2020 03:41 | |
| o-Terphenyl | 84-15-1 | 81 | % | 70-130 | 07.14.2020 03:41 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #440 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-031 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 08:41 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 08:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 08:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.16.2020 08:41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 08:41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 08:41 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.16.2020 08:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 07.16.2020 08:41 | |
| 4-Bromofluorobenzene | 460-00-4 | 64 | % | 70-130 | 07.16.2020 08:41 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #441 (2'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-032 Date Collected: 07.10.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:15 Basis: Wet Weight

Seq Number: 3131507

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.00** | 5.03 | mg/kg | 07.13.2020 23:01 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131560

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 04:02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 04:02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 04:02 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 04:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 83 | % | 70-130 | 07.14.2020 04:02 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 07.14.2020 04:02 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #441 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-032 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 07.16.2020 09:01 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 07.16.2020 09:01 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 07.16.2020 09:01 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 07.16.2020 09:01 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 07.16.2020 09:01 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 07.16.2020 09:01 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 07.16.2020 09:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 07.16.2020 09:01 | |
| 4-Bromofluorobenzene | 460-00-4 | 126 | % | 70-130 | 07.16.2020 09:01 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #442 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-033 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.82** | 4.96 | mg/kg | 07.13.2020 23:06 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 04:23 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 04:23 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 04:23 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 04:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 78 | % | 70-130 | 07.14.2020 04:23 | |
| o-Terphenyl | 84-15-1 | 82 | % | 70-130 | 07.14.2020 04:23 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #442 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-033 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:22 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.16.2020 09:22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:22 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 07.16.2020 09:22 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 07.16.2020 09:22 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #443 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-034 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.65** | 4.95 | mg/kg | 07.13.2020 23:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 04:44 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 04:44 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 04:44 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 04:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 81 | % | 70-130 | 07.14.2020 04:44 | |
| o-Terphenyl | 84-15-1 | 77 | % | 70-130 | 07.14.2020 04:44 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #443 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-034 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:42 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.16.2020 09:42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:42 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 09:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 07.16.2020 09:42 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 07.16.2020 09:42 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #444 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-035 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.40** | 4.95 | mg/kg | 07.13.2020 23:27 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 05:05 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 05:05 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 05:05 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 05:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 79 | % | 70-130 | 07.14.2020 05:05 | |
| o-Terphenyl | 84-15-1 | 77 | % | 70-130 | 07.14.2020 05:05 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #444 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-035 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:03 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:03 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:03 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 10:03 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:03 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:03 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 07.16.2020 10:03 | |
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 07.16.2020 10:03 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #445 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-036 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.12** | 4.95 | mg/kg | 07.13.2020 23:32 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:26 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 05:26 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:26 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 83 | % | 70-130 | 07.14.2020 05:26 | |
| o-Terphenyl | 84-15-1 | 84 | % | 70-130 | 07.14.2020 05:26 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #445 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-036 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:23 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 10:23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:23 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 07.16.2020 10:23 | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 07.16.2020 10:23 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #446 (3'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-037 Date Collected: 07.10.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:15 Basis: Wet Weight

Seq Number: 3131507

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.51** | 4.98 | mg/kg | 07.13.2020 23:37 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.13.2020 16:30 Basis: Wet Weight

Seq Number: 3131560

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:46 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 05:46 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:46 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 05:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 79 | % | 70-130 | 07.14.2020 05:46 | |
| o-Terphenyl | 84-15-1 | 80 | % | 70-130 | 07.14.2020 05:46 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #446 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-037 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:52 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 10:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:52 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 10:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 07.16.2020 10:52 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 07.16.2020 10:52 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #447 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-038 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.51** | 5.00 | mg/kg | 07.13.2020 23:42 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 06:07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 06:07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 06:07 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 06:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 80 | % | 70-130 | 07.14.2020 06:07 | |
| o-Terphenyl | 84-15-1 | 83 | % | 70-130 | 07.14.2020 06:07 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #447 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-038 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:12 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.16.2020 11:12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:12 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 07.16.2020 11:12 | |
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 07.16.2020 11:12 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #448 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-039 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.83** | 5.03 | mg/kg | 07.13.2020 23:47 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 06:28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 06:28 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 06:28 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 06:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-130 | 07.14.2020 06:28 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 07.14.2020 06:28 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #448 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-039 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:33 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 11:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:33 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 11:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 07.16.2020 11:33 | |
| 1,4-Difluorobenzene | 540-36-3 | 117 | % | 70-130 | 07.16.2020 11:33 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #449 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-040 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:15 | Basis: | Wet Weight |
| Seq Number: | 3131507 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.88** | 4.96 | mg/kg | 07.13.2020 23:52 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 16:30 | Basis: | Wet Weight |
| Seq Number: | 3131560 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 06:49 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 06:49 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 06:49 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 06:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 07.14.2020 06:49 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 07.14.2020 06:49 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #449 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-040 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131855 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:53 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.16.2020 11:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:53 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 11:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 07.16.2020 11:53 | |
| 1,4-Difluorobenzene | 540-36-3 | 115 | % | 70-130 | 07.16.2020 11:53 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #450 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-041 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.08** | 5.00 | mg/kg | 07.14.2020 08:50 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 09:37 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 09:37 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 09:37 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 09:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.14.2020 09:37 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-130 | 07.14.2020 09:37 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #450 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-041 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.14.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131616 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 15:48 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 15:48 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 15:48 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.14.2020 15:48 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 15:48 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 15:48 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.14.2020 15:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 07.14.2020 15:48 | |
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 07.14.2020 15:48 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #451 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-042 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.35** | 4.98 | mg/kg | 07.14.2020 09:05 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 10:34 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 10:34 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 10:34 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 10:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 117 | % | 70-130 | 07.14.2020 10:34 | |
| o-Terphenyl | 84-15-1 | 125 | % | 70-130 | 07.14.2020 10:34 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #451 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-042 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.14.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131616 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:13 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.14.2020 18:13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:13 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 07.14.2020 18:13 | |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 07.14.2020 18:13 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #452 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-043 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.62** | 4.99 | mg/kg | 07.14.2020 09:10 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 10:52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 10:52 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 10:52 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 10:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.14.2020 10:52 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 07.14.2020 10:52 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #452 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-043 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.14.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131616 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:35 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.14.2020 18:35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:35 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.14.2020 18:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 07.14.2020 18:35 | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.14.2020 18:35 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #453 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-044 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.35** | 5.04 | mg/kg | 07.14.2020 09:15 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 11:11 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 11:11 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 11:11 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 11:11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 111 | % | 70-130 | 07.14.2020 11:11 | |
| o-Terphenyl | 84-15-1 | 119 | % | 70-130 | 07.14.2020 11:11 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #453 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-044 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.14.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131616 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.14.2020 18:57 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.14.2020 18:57 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.14.2020 18:57 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.14.2020 18:57 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.14.2020 18:57 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.14.2020 18:57 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.14.2020 18:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.14.2020 18:57 | |
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 07.14.2020 18:57 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #454 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-045 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.19** | 4.96 | mg/kg | 07.14.2020 09:20 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 11:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 11:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 11:30 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 11:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.14.2020 11:30 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-130 | 07.14.2020 11:30 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #454 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-045 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.14.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131616 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 21:52 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 21:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 21:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.14.2020 21:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 21:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.14.2020 21:52 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.14.2020 21:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 07.14.2020 21:52 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.14.2020 21:52 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #455 (3'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-046 Date Collected: 07.10.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:30 Basis: Wet Weight

Seq Number: 3131528

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.98** | 4.95 | mg/kg | 07.14.2020 09:35 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.14.2020 09:00 Basis: Wet Weight

Seq Number: 3131680

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 11:49 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 11:49 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 11:49 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 11:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.14.2020 11:49 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 07.14.2020 11:49 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #455 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-046 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:14 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:14 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.15.2020 11:14 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:14 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:14 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.15.2020 11:14 | |
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 07.15.2020 11:14 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #456 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-047 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.54** | 5.03 | mg/kg | 07.14.2020 09:41 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 12:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 12:08 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 12:08 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 12:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-130 | 07.14.2020 12:08 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 07.14.2020 12:08 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #456 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-047 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:29 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 16:29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:29 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 07.15.2020 16:29 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.15.2020 16:29 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #457 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-048 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.95** | 4.99 | mg/kg | 07.14.2020 09:46 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 12:27 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 12:27 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 12:27 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 12:27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-130 | 07.14.2020 12:27 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 07.14.2020 12:27 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #457 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-048 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:52 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.15.2020 16:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:52 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 07.15.2020 16:52 | |
| 1,4-Difluorobenzene | 540-36-3 | 81 | % | 70-130 | 07.15.2020 16:52 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #458 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-049 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.28** | 4.95 | mg/kg | 07.14.2020 09:51 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 12:46 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 12:46 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 12:46 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 12:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 07.14.2020 12:46 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-130 | 07.14.2020 12:46 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #458 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-049 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 17:15 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 17:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 17:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.15.2020 17:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 17:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 17:15 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.15.2020 17:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 07.15.2020 17:15 | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 07.15.2020 17:15 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #459 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-050 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.80** | 4.98 | mg/kg | 07.14.2020 09:56 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.15.2020 09:33 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.15.2020 09:33 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.15.2020 09:33 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.15.2020 09:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 113 | % | 70-130 | 07.15.2020 09:33 | |
| o-Terphenyl | 84-15-1 | 120 | % | 70-130 | 07.15.2020 09:33 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #459 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-050 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:38 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:38 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:38 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.15.2020 17:38 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:38 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:38 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 07.15.2020 17:38 | |
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 07.15.2020 17:38 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #460 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-051 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.25** | 5.00 | mg/kg | 07.14.2020 10:01 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 13:43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 13:43 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 13:43 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 13:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-130 | 07.14.2020 13:43 | |
| o-Terphenyl | 84-15-1 | 121 | % | 70-130 | 07.14.2020 13:43 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #460 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-051 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:01 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:01 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:01 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 18:01 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:01 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:01 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 07.15.2020 18:01 | |
| 4-Bromofluorobenzene | 460-00-4 | 128 | % | 70-130 | 07.15.2020 18:01 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #461 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-052 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.90** | 5.02 | mg/kg | 07.14.2020 10:16 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 14:02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 14:02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 14:02 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 14:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 117 | % | 70-130 | 07.14.2020 14:02 | |
| o-Terphenyl | 84-15-1 | 124 | % | 70-130 | 07.14.2020 14:02 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #461 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-052 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 18:22 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 18:22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 18:22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 07.15.2020 18:22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 18:22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 18:22 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.15.2020 18:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 07.15.2020 18:22 | |
| 4-Bromofluorobenzene | 460-00-4 | 136 | % | 70-130 | 07.15.2020 18:22 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #462 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-053 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **9.74** | 4.98 | mg/kg | 07.14.2020 10:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 14:22 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 14:22 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 14:22 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 14:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 07.14.2020 14:22 | |
| o-Terphenyl | 84-15-1 | 115 | % | 70-130 | 07.14.2020 14:22 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #462 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-053 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 18:45 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 18:45 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 18:45 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.15.2020 18:45 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 18:45 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 18:45 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 18:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 07.15.2020 18:45 | |
| 4-Bromofluorobenzene | 460-00-4 | 135 | % | 70-130 | 07.15.2020 18:45 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #463 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-054 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.55** | 4.95 | mg/kg | 07.14.2020 10:36 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 14:41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 14:41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 14:41 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 14:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 07.14.2020 14:41 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-130 | 07.14.2020 14:41 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #463 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-054 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 19:08 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 19:08 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 19:08 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 19:08 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 19:08 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 19:08 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 19:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 07.15.2020 19:08 | |
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 07.15.2020 19:08 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #464 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-055 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.00** | 5.04 | mg/kg | 07.14.2020 10:41 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 15:00 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 15:00 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 15:00 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 15:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.14.2020 15:00 | |
| o-Terphenyl | 84-15-1 | 118 | % | 70-130 | 07.14.2020 15:00 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #464 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-055 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 19:30 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 19:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 19:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.15.2020 19:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 19:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 19:30 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.15.2020 19:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 07.15.2020 19:30 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 07.15.2020 19:30 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #465 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-056 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.33** | 4.95 | mg/kg | 07.14.2020 10:46 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 15:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 15:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 15:19 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 15:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 115 | % | 70-130 | 07.14.2020 15:19 | |
| o-Terphenyl | 84-15-1 | 123 | % | 70-130 | 07.14.2020 15:19 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #465 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-056 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 20:59 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 20:59 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 20:59 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.15.2020 20:59 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 20:59 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 20:59 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 20:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 07.15.2020 20:59 | |
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 07.15.2020 20:59 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #466 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-057 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.20** | 5.05 | mg/kg | 07.14.2020 10:51 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 15:38 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 15:38 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 15:38 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 15:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.14.2020 15:38 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 07.14.2020 15:38 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #466 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-057 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 21:21 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 21:21 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 21:21 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.15.2020 21:21 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 21:21 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 21:21 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 21:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 07.15.2020 21:21 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 07.15.2020 21:21 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #467 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-058 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.99** | 5.05 | mg/kg | 07.14.2020 10:56 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 15:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 15:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 15:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 15:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 112 | % | 70-130 | 07.14.2020 15:58 | |
| o-Terphenyl | 84-15-1 | 120 | % | 70-130 | 07.14.2020 15:58 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #467 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-058 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 21:42 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 21:42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 21:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 21:42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 21:42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 21:42 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 21:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 124 | % | 70-130 | 07.15.2020 21:42 | |
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 07.15.2020 21:42 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #468 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-059 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.36** | 5.05 | mg/kg | 07.14.2020 11:01 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.15.2020 09:51 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.15.2020 09:51 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.15.2020 09:51 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.15.2020 09:51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 111 | % | 70-130 | 07.15.2020 09:51 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 07.15.2020 09:51 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #468 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-059 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:04 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:04 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:04 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.15.2020 22:04 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:04 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:04 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 07.15.2020 22:04 | |
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 07.15.2020 22:04 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #469 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-060 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:30 | Basis: | Wet Weight |
| Seq Number: | 3131528 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.63** | 4.98 | mg/kg | 07.14.2020 11:06 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 09:00 | Basis: | Wet Weight |
| Seq Number: | 3131680 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 16:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 16:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 16:36 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 16:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-130 | 07.14.2020 16:36 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-130 | 07.14.2020 16:36 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #469 (3'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-060 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:25 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:25 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:25 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 07.15.2020 22:25 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:25 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:25 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.15.2020 22:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 85 | % | 70-130 | 07.15.2020 22:25 | |
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 07.15.2020 22:25 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #470 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-061 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.02 | 5.02 | mg/kg | 07.13.2020 18:04 | UX | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 18:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 18:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 18:30 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 18:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 119 | % | 70-130 | 07.14.2020 18:30 | |
| o-Terphenyl | 84-15-1 | 119 | % | 70-130 | 07.14.2020 18:30 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #470 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-061 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | UX | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.15.2020 22:45 | UX | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 07.15.2020 22:45 | |
| 4-Bromofluorobenzene | 460-00-4 | 126 | % | 70-130 | 07.15.2020 22:45 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #471 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-062 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.99 | 4.99 | mg/kg | 07.13.2020 18:23 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 19:29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 19:29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 19:29 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 19:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 07.14.2020 19:29 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 07.14.2020 19:29 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #471 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-062 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:06 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:06 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:06 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 23:06 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:06 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:06 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 07.15.2020 23:06 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 07.15.2020 23:06 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #472 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-063 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.05 | 5.05 | mg/kg | 07.13.2020 18:30 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 19:48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 19:48 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 19:48 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 19:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 07.14.2020 19:48 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 07.14.2020 19:48 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #472 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-063 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:26 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:26 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:26 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.15.2020 23:26 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:26 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:26 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 130 | % | 70-130 | 07.15.2020 23:26 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 07.15.2020 23:26 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #473 (1.5'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-064 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 07.13.2020 18:36 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 20:07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 20:07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 20:07 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 20:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 07.14.2020 20:07 | |
| o-Terphenyl | 84-15-1 | 115 | % | 70-130 | 07.14.2020 20:07 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #473 (1.5'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-064 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.15.2020 23:46 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 126 | % | 70-130 | 07.15.2020 23:46 | |
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 07.15.2020 23:46 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #474 (1.5'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-065 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 07.13.2020 18:42 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 20:26 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 20:26 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 20:26 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 20:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.14.2020 20:26 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-130 | 07.14.2020 20:26 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #474 (1.5'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-065 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 00:07 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 00:07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 00:07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.16.2020 00:07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 00:07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 00:07 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.16.2020 00:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 07.16.2020 00:07 | |
| 4-Bromofluorobenzene | 460-00-4 | 129 | % | 70-130 | 07.16.2020 00:07 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #475 (1.5'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-066 Date Collected: 07.10.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:50 Basis: Wet Weight

Seq Number: 3131509

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 07.13.2020 19:01 | U | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.14.2020 10:00 Basis: Wet Weight

Seq Number: 3131683

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 20:45 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 20:45 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 20:45 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 20:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 115 | % | 70-130 | 07.14.2020 20:45 | |
| o-Terphenyl | 84-15-1 | 122 | % | 70-130 | 07.14.2020 20:45 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #475 (1.5'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-066 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:04 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:04 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:04 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 07.15.2020 22:04 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:04 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:04 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 07.15.2020 22:04 | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 07.15.2020 22:04 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

Sample Id: **Bottom Hole #476 (1.5'BEB)** Matrix: Soil Date Received:07.13.2020 11:23

Lab Sample Id: 666985-067 Date Collected: 07.10.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.13.2020 15:50 Basis: Wet Weight

Seq Number: 3131509

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 07.13.2020 19:08 | U | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.14.2020 10:00 Basis: Wet Weight

Seq Number: 3131683

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 21:04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 21:04 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 21:04 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 21:04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 129 | % | 70-130 | 07.14.2020 21:04 | |
| o-Terphenyl | 84-15-1 | 138 | % | 70-130 | 07.14.2020 21:04 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #476 (1.5'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-067 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:35 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.15.2020 11:35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:35 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 11:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 07.15.2020 11:35 | |
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 07.15.2020 11:35 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #477 (1.5'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-068 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.02 | 5.02 | mg/kg | 07.13.2020 19:14 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 21:23 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 21:23 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 21:23 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 21:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 07.14.2020 21:23 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 07.14.2020 21:23 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #477 (1.5'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-068 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 11:55 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 11:55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 11:55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.15.2020 11:55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 11:55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 11:55 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.15.2020 11:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 07.15.2020 11:55 | |
| 1,4-Difluorobenzene | 540-36-3 | 111 | % | 70-130 | 07.15.2020 11:55 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #478 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-069 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.05 | 5.05 | mg/kg | 07.13.2020 19:20 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.14.2020 21:42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.14.2020 21:42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.14.2020 21:42 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.14.2020 21:42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 07.14.2020 21:42 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 07.14.2020 21:42 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **Bottom Hole #478 (2'BEB)** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-069 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 12:16 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 12:16 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 12:16 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 12:16 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 12:16 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 12:16 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 12:16 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 07.15.2020 12:16 | |
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 07.15.2020 12:16 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 17 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-070 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.05 | 5.05 | mg/kg | 07.13.2020 19:27 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 22:01 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 22:01 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 22:01 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 22:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 121 | % | 70-130 | 07.14.2020 22:01 | |
| o-Terphenyl | 84-15-1 | 128 | % | 70-130 | 07.14.2020 22:01 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 17 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-070 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 12:36 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 12:36 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 12:36 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.15.2020 12:36 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 12:36 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 12:36 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 12:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 115 | % | 70-130 | 07.15.2020 12:36 | |
| 4-Bromofluorobenzene | 460-00-4 | 92 | % | 70-130 | 07.15.2020 12:36 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 12 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-071 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **22.1** | 5.05 | mg/kg | 07.13.2020 19:33 | X | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 22:39 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 22:39 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 22:39 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 22:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-130 | 07.14.2020 22:39 | |
| o-Terphenyl | 84-15-1 | 115 | % | 70-130 | 07.14.2020 22:39 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 12 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-071 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 12:57 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 12:57 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 12:57 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 07.15.2020 12:57 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 12:57 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 12:57 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 07.15.2020 12:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.15.2020 12:57 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 07.15.2020 12:57 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 13 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-072 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.98 | 4.98 | mg/kg | 07.13.2020 19:52 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 22:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 22:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 22:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 22:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 113 | % | 70-130 | 07.14.2020 22:58 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-130 | 07.14.2020 22:58 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 13 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-072 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:17 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:17 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:17 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 13:17 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:17 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:17 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 07.15.2020 13:17 | |
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 07.15.2020 13:17 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 14 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-073 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.96 | 4.96 | mg/kg | 07.13.2020 19:59 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 23:17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 23:17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 23:17 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 23:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 07.14.2020 23:17 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 07.14.2020 23:17 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 14 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-073 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:38 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:38 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:38 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 13:38 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:38 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:38 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 07.15.2020 13:38 | |
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 07.15.2020 13:38 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 15 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-074 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.99 | 4.99 | mg/kg | 07.13.2020 20:18 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 23:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 23:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 23:36 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 23:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 113 | % | 70-130 | 07.14.2020 23:36 | |
| o-Terphenyl | 84-15-1 | 120 | % | 70-130 | 07.14.2020 23:36 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 15 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-074 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:59 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:59 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:59 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 13:59 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:59 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:59 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 13:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 07.15.2020 13:59 | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 07.15.2020 13:59 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 16 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-075 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.03 | 5.03 | mg/kg | 07.13.2020 20:24 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 23:54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 23:54 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 23:54 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 23:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 116 | % | 70-130 | 07.14.2020 23:54 | |
| o-Terphenyl | 84-15-1 | 123 | % | 70-130 | 07.14.2020 23:54 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **North 16 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-075 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 14:19 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 14:19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 14:19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 07.15.2020 14:19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 14:19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 14:19 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.15.2020 14:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 07.15.2020 14:19 | |
| 1,4-Difluorobenzene | 540-36-3 | 116 | % | 70-130 | 07.15.2020 14:19 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 10 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-076 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **22.7** | 4.96 | mg/kg | 07.13.2020 20:30 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.15.2020 00:13 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.15.2020 00:13 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.15.2020 00:13 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.15.2020 00:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.15.2020 00:13 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 07.15.2020 00:13 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 10 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-076 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 15:43 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 15:43 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 15:43 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 15:43 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 15:43 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 15:43 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 15:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 07.15.2020 15:43 | |
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 07.15.2020 15:43 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 11 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-077 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.99 | 4.99 | mg/kg | 07.13.2020 20:37 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.15.2020 00:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.15.2020 00:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.15.2020 00:32 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.15.2020 00:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-130 | 07.15.2020 00:32 | |
| o-Terphenyl | 84-15-1 | 122 | % | 70-130 | 07.15.2020 00:32 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 11 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-077 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 16:03 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 16:03 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 16:03 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.15.2020 16:03 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 16:03 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 16:03 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.15.2020 16:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 97 | % | 70-130 | 07.15.2020 16:03 | |
| 1,4-Difluorobenzene | 540-36-3 | 117 | % | 70-130 | 07.15.2020 16:03 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 12 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-078 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.04 | 5.04 | mg/kg | 07.13.2020 20:43 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.15.2020 00:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.15.2020 00:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.15.2020 00:50 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.15.2020 00:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 112 | % | 70-130 | 07.15.2020 00:50 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-130 | 07.15.2020 00:50 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 12 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-078 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:24 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:24 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:24 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 16:24 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:24 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:24 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 16:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.15.2020 16:24 | |
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 07.15.2020 16:24 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 13 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-079 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 07.13.2020 20:49 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.15.2020 01:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.15.2020 01:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.15.2020 01:09 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.15.2020 01:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.15.2020 01:09 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 07.15.2020 01:09 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 13 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-079 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:44 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:44 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.15.2020 16:44 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:44 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:44 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 16:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 07.15.2020 16:44 | |
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 07.15.2020 16:44 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 14 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-080 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 07.13.2020 15:50 | Basis: | Wet Weight |
| Seq Number: | 3131509 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 07.13.2020 20:56 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131683 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.15.2020 01:28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.15.2020 01:28 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.15.2020 01:28 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.15.2020 01:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.15.2020 01:28 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 07.15.2020 01:28 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 14 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-080 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:05 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:05 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:05 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.15.2020 17:05 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:05 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:05 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 07.15.2020 17:05 | |
| 1,4-Difluorobenzene | 540-36-3 | 111 | % | 70-130 | 07.15.2020 17:05 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 10 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-081 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 07.14.2020 11:32 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 17:20 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 17:20 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 17:20 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 17:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-130 | 07.13.2020 17:20 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-130 | 07.13.2020 17:20 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 10 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-081 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 17:26 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 17:26 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 17:26 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 17:26 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 17:26 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 17:26 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 17:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 94 | % | 70-130 | 07.15.2020 17:26 | |
| 1,4-Difluorobenzene | 540-36-3 | 115 | % | 70-130 | 07.15.2020 17:26 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 11 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-082 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.03 | 5.03 | mg/kg | 07.14.2020 11:38 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 18:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 18:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 18:19 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 18:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 07.13.2020 18:19 | |
| o-Terphenyl | 84-15-1 | 115 | % | 70-130 | 07.13.2020 18:19 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 11 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-082 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:46 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:46 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:46 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.15.2020 17:46 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:46 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:46 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 17:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 07.15.2020 17:46 | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 07.15.2020 17:46 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 12 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-083 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.96 | 4.96 | mg/kg | 07.14.2020 11:45 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.13.2020 18:38 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.13.2020 18:38 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.13.2020 18:38 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.13.2020 18:38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-130 | 07.13.2020 18:38 | |
| o-Terphenyl | 84-15-1 | 124 | % | 70-130 | 07.13.2020 18:38 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 12 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-083 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:07 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 18:07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:07 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 18:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 115 | % | 70-130 | 07.15.2020 18:07 | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 07.15.2020 18:07 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 13 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-084 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.05 | 5.05 | mg/kg | 07.14.2020 11:51 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.13.2020 18:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.13.2020 18:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.13.2020 18:57 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.13.2020 18:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 07.13.2020 18:57 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 07.13.2020 18:57 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 13 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-084 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:27 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:27 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.15.2020 18:27 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:27 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:27 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 111 | % | 70-130 | 07.15.2020 18:27 | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 07.15.2020 18:27 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 14 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-085 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.98 | 4.98 | mg/kg | 07.14.2020 11:58 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 19:16 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 19:16 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 19:16 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 19:16 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-130 | 07.13.2020 19:16 | |
| o-Terphenyl | 84-15-1 | 122 | % | 70-130 | 07.13.2020 19:16 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 14 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-085 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 08:00 | Basis: | Wet Weight |
| Seq Number: | 3131759 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:48 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:48 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:48 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.15.2020 18:48 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:48 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:48 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.15.2020 18:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 92 | % | 70-130 | 07.15.2020 18:48 | |
| 1,4-Difluorobenzene | 540-36-3 | 116 | % | 70-130 | 07.15.2020 18:48 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 15 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-086 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.04 | 5.04 | mg/kg | 07.14.2020 12:17 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.13.2020 19:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.13.2020 19:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.13.2020 19:36 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.13.2020 19:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-130 | 07.13.2020 19:36 | |
| o-Terphenyl | 84-15-1 | 118 | % | 70-130 | 07.13.2020 19:36 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 15 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-086 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | AMF | | | % Moisture: | |
| Analyst: | AMF | Date Prep: | 07.15.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131764 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 16:06 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 16:06 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 16:06 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.15.2020 16:06 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 16:06 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.15.2020 16:06 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.15.2020 16:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 07.15.2020 16:06 | |
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 07.15.2020 16:06 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 16 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-087 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 07.14.2020 12:23 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 19:55 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 19:55 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 19:55 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 19:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 07.13.2020 19:55 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-130 | 07.13.2020 19:55 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 16 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-087 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:24 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:24 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:24 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 07.15.2020 22:24 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:24 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:24 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 07.15.2020 22:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 07.15.2020 22:24 | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 07.15.2020 22:24 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 17 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-088 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 07.14.2020 12:42 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 20:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 20:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 20:14 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 20:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 116 | % | 70-130 | 07.13.2020 20:14 | |
| o-Terphenyl | 84-15-1 | 124 | % | 70-130 | 07.13.2020 20:14 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 17 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-088 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.15.2020 22:45 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 22:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 07.15.2020 22:45 | |
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 07.15.2020 22:45 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 18 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-089 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 07.14.2020 12:48 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.13.2020 20:33 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.13.2020 20:33 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.13.2020 20:33 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.13.2020 20:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 121 | % | 70-130 | 07.13.2020 20:33 | |
| o-Terphenyl | 84-15-1 | 124 | % | 70-130 | 07.13.2020 20:33 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 18 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-089 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:05 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:05 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:05 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.15.2020 23:05 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:05 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:05 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.15.2020 23:05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 07.15.2020 23:05 | |
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 07.15.2020 23:05 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 19 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-090 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.05 | 5.05 | mg/kg | 07.14.2020 12:55 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 20:52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 20:52 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 20:52 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 20:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 116 | % | 70-130 | 07.13.2020 20:52 | |
| o-Terphenyl | 84-15-1 | 121 | % | 70-130 | 07.13.2020 20:52 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 19 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-090 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 23:26 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 23:26 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 23:26 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.15.2020 23:26 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 23:26 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.15.2020 23:26 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.15.2020 23:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 07.15.2020 23:26 | |
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 07.15.2020 23:26 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 20 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-091 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.96 | 4.96 | mg/kg | 07.14.2020 13:01 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 21:31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 21:31 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 21:31 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 21:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 07.13.2020 21:31 | |
| o-Terphenyl | 84-15-1 | 111 | % | 70-130 | 07.13.2020 21:31 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 20 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-091 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.15.2020 23:46 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.15.2020 23:46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 07.15.2020 23:46 | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 07.15.2020 23:46 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 12 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-092 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **22.8** | 4.99 | mg/kg | 07.14.2020 13:07 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.13.2020 21:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.13.2020 21:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.13.2020 21:50 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.13.2020 21:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 113 | % | 70-130 | 07.13.2020 21:50 | |
| o-Terphenyl | 84-15-1 | 121 | % | 70-130 | 07.13.2020 21:50 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 12 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-092 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 00:07 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 00:07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 00:07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 00:07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 00:07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 00:07 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 00:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 07.16.2020 00:07 | |
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 07.16.2020 00:07 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 13 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-093 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.98 | 4.98 | mg/kg | 07.14.2020 13:14 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.13.2020 22:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.13.2020 22:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.13.2020 22:09 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.13.2020 22:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 117 | % | 70-130 | 07.13.2020 22:09 | |
| o-Terphenyl | 84-15-1 | 126 | % | 70-130 | 07.13.2020 22:09 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 13 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-093 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:27 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:27 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.16.2020 00:27 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:27 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:27 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 07.16.2020 00:27 | |
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 07.16.2020 00:27 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 14 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-094 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:00 | Basis: | Wet Weight |
| Seq Number: | 3131639 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.97 | 4.97 | mg/kg | 07.14.2020 13:20 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 22:28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 22:28 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 22:28 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 22:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 120 | % | 70-130 | 07.13.2020 22:28 | |
| o-Terphenyl | 84-15-1 | 128 | % | 70-130 | 07.13.2020 22:28 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 14 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-094 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:47 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:47 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:47 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.16.2020 00:47 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:47 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:47 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 00:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 07.16.2020 00:47 | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 07.16.2020 00:47 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 15 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-095 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.52** | 5.00 | mg/kg | 07.14.2020 12:03 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 22:47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 22:47 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 22:47 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 22:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 119 | % | 70-130 | 07.13.2020 22:47 | |
| o-Terphenyl | 84-15-1 | 128 | % | 70-130 | 07.13.2020 22:47 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 15 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-095 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 01:08 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 01:08 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 01:08 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.16.2020 01:08 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 01:08 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 01:08 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.16.2020 01:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 07.16.2020 01:08 | |
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 07.16.2020 01:08 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 16 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-096 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.89** | 5.03 | mg/kg | 07.14.2020 12:18 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.13.2020 23:06 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.13.2020 23:06 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.13.2020 23:06 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.13.2020 23:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 111 | % | 70-130 | 07.13.2020 23:06 | |
| o-Terphenyl | 84-15-1 | 119 | % | 70-130 | 07.13.2020 23:06 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 16 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-096 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 02:32 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 02:32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 02:32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.16.2020 02:32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 02:32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 02:32 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 02:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 07.16.2020 02:32 | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 07.16.2020 02:32 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 17 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-097 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.41** | 4.98 | mg/kg | 07.14.2020 12:24 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 23:25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 23:25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 23:25 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 23:25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 123 | % | 70-130 | 07.13.2020 23:25 | |
| o-Terphenyl | 84-15-1 | 132 | % | 70-130 | 07.13.2020 23:25 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 17 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-097 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 02:52 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 02:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 02:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.16.2020 02:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 02:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 02:52 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.16.2020 02:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 07.16.2020 02:52 | |
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 07.16.2020 02:52 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 18 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-098 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.85** | 4.96 | mg/kg | 07.14.2020 12:29 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.13.2020 23:44 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.13.2020 23:44 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.13.2020 23:44 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.13.2020 23:44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 122 | % | 70-130 | 07.13.2020 23:44 | |
| o-Terphenyl | 84-15-1 | 131 | % | 70-130 | 07.13.2020 23:44 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 18 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-098 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 03:12 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 03:12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 03:12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.16.2020 03:12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 03:12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.16.2020 03:12 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.16.2020 03:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 07.16.2020 03:12 | |
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 07.16.2020 03:12 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 19 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-099 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.54** | 5.05 | mg/kg | 07.14.2020 12:34 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.14.2020 00:03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:03 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.14.2020 00:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 127 | % | 70-130 | 07.14.2020 00:03 | |
| o-Terphenyl | 84-15-1 | 135 | % | 70-130 | 07.14.2020 00:03 | ** |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 19 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-099 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 03:33 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 03:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 03:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.16.2020 03:33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 03:33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 03:33 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 03:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 124 | % | 70-130 | 07.16.2020 03:33 | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 07.16.2020 03:33 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 20 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-100 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.24** | 5.05 | mg/kg | 07.14.2020 12:49 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3131556 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.14.2020 00:21 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.14.2020 00:21 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.14.2020 00:21 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.14.2020 00:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 118 | % | 70-130 | 07.14.2020 00:21 | |
| o-Terphenyl | 84-15-1 | 123 | % | 70-130 | 07.14.2020 00:21 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 20 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-100 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:53 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 07.16.2020 03:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:53 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.16.2020 03:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 07.16.2020 03:53 | |
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 07.16.2020 03:53 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 21 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-101 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.87** | 4.99 | mg/kg | 07.14.2020 12:54 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131559 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.13.2020 19:54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.13.2020 19:54 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.13.2020 19:54 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.13.2020 19:54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 80 | % | 70-130 | 07.13.2020 19:54 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-130 | 07.13.2020 19:54 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 21 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-101 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:14 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:14 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.16.2020 04:14 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:14 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:14 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 07.16.2020 04:14 | |
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 07.16.2020 04:14 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 22 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-102 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.36** | 4.95 | mg/kg | 07.14.2020 12:59 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131559 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 07.13.2020 20:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 07.13.2020 20:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 07.13.2020 20:15 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 07.13.2020 20:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 75 | % | 70-130 | 07.13.2020 20:15 | |
| o-Terphenyl | 84-15-1 | 75 | % | 70-130 | 07.13.2020 20:15 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 22 Sidewall** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-102 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:34 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.16.2020 04:34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:34 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 04:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 07.16.2020 04:34 | |
| 1,4-Difluorobenzene | 540-36-3 | 115 | % | 70-130 | 07.16.2020 04:34 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 15** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-103 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.02** | 4.95 | mg/kg | 07.14.2020 13:04 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131559 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 20:37 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 20:37 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 20:37 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 20:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 81 | % | 70-130 | 07.13.2020 20:37 | |
| o-Terphenyl | 84-15-1 | 79 | % | 70-130 | 07.13.2020 20:37 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **South 15** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-103 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:55 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 04:55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:55 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 04:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 07.16.2020 04:55 | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 07.16.2020 04:55 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 21** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-104 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.34** | 5.02 | mg/kg | 07.14.2020 13:09 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131559 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 07.13.2020 20:59 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.13.2020 20:59 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.13.2020 20:59 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.13.2020 20:59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 83 | % | 70-130 | 07.13.2020 20:59 | |
| o-Terphenyl | 84-15-1 | 83 | % | 70-130 | 07.13.2020 20:59 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **East 21** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-104 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:15 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.16.2020 05:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:15 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.16.2020 05:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 07.16.2020 05:15 | |
| 4-Bromofluorobenzene | 460-00-4 | 126 | % | 70-130 | 07.16.2020 05:15 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 23** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-105 | Date Collected: | 07.10.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300/300.1 | | | Prep Method: | E300P |
| Tech: | SPC | | | % Moisture: | |
| Analyst: | SPC | Date Prep: | 07.14.2020 10:30 | Basis: | Wet Weight |
| Seq Number: | 3131641 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.48** | 5.00 | mg/kg | 07.14.2020 13:14 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 07.13.2020 12:00 | Basis: | Wet Weight |
| Seq Number: | 3131559 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 07.13.2020 21:20 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.13.2020 21:20 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.13.2020 21:20 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.13.2020 21:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-130 | 07.13.2020 21:20 | |
| o-Terphenyl | 84-15-1 | 82 | % | 70-130 | 07.13.2020 21:20 | |

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# Certificate of Analytical Results 666985

## Tetra Tech- Midland, Midland, TX

EOG Rattlesnake Reuse Pit

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **West 23** | Matrix: | Soil | Date Received: | 07.13.2020 11:23 |
| Lab Sample Id: | 666985-105 | Date Collected: | 07.10.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 07.15.2020 14:00 | Basis: | Wet Weight |
| Seq Number: | 3131762 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:35 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.16.2020 05:35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:35 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.16.2020 05:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 116 | % | 70-130 | 07.16.2020 05:35 | |
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 07.16.2020 05:35 | |

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# 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. **ND** Not Detected.

**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

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# QC Summary 666985



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131506 — Matrix: Solid — Date Prep: 07.13.2020
MB Sample Id: 7707238-1-BLK — LCS Sample Id: 7707238-1-BKS — LCSD Sample Id: 7707238-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 262 | 105 | 266 | 106 | 90-110 | 2 | 20 | mg/kg | 07.13.2020 18:38 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131507 — Matrix: Solid — Date Prep: 07.13.2020
MB Sample Id: 7707239-1-BLK — LCS Sample Id: 7707239-1-BKS — LCSD Sample Id: 7707239-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 249 | 100 | 253 | 101 | 90-110 | 2 | 20 | mg/kg | 07.13.2020 21:25 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131528 — Matrix: Solid — Date Prep: 07.13.2020
MB Sample Id: 7707241-1-BLK — LCS Sample Id: 7707241-1-BKS — LCSD Sample Id: 7707241-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 254 | 102 | 254 | 102 | 90-110 | 0 | 20 | mg/kg | 07.14.2020 08:40 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131509 — Matrix: Solid — Date Prep: 07.13.2020
MB Sample Id: 7707242-1-BLK — LCS Sample Id: 7707242-1-BKS — LCSD Sample Id: 7707242-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 264 | 106 | 263 | 105 | 90-110 | 0 | 20 | mg/kg | 07.13.2020 17:52 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131639 — Matrix: Solid — Date Prep: 07.14.2020
MB Sample Id: 7707269-1-BLK — LCS Sample Id: 7707269-1-BKS — LCSD Sample Id: 7707269-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 256 | 102 | 256 | 102 | 90-110 | 0 | 20 | mg/kg | 07.14.2020 10:16 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131641 — Matrix: Solid — Date Prep: 07.14.2020
MB Sample Id: 7707274-1-BLK — LCS Sample Id: 7707274-1-BKS — LCSD Sample Id: 7707274-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 251 | 100 | 253 | 101 | 90-110 | 1 | 20 | mg/kg | 07.14.2020 11:53 | |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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# QC Summary 666985



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131506 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-001 — MS Sample Id: 666985-001 S — MSD Sample Id: 666985-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 44.1 | 248 | 313 | 108 | 308 | 106 | 90-110 | 2 | 20 | mg/kg | 07.13.2020 18:53 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131506 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-011 — MS Sample Id: 666985-011 S — MSD Sample Id: 666985-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 35.7 | 248 | 292 | 103 | 290 | 103 | 90-110 | 1 | 20 | mg/kg | 07.13.2020 20:04 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131507 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-021 — MS Sample Id: 666985-021 S — MSD Sample Id: 666985-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 35.3 | 250 | 297 | 105 | 295 | 104 | 90-110 | 1 | 20 | mg/kg | 07.13.2020 21:40 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131507 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-031 — MS Sample Id: 666985-031 S — MSD Sample Id: 666985-031 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 9.98 | 249 | 269 | 104 | 264 | 102 | 90-110 | 2 | 20 | mg/kg | 07.13.2020 22:51 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131528 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-041 — MS Sample Id: 666985-041 S — MSD Sample Id: 666985-041 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 8.08 | 250 | 259 | 100 | 259 | 100 | 90-110 | 0 | 20 | mg/kg | 07.14.2020 08:55 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131528 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-051 — MS Sample Id: 666985-051 S — MSD Sample Id: 666985-051 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 8.25 | 250 | 257 | 100 | 250 | 97 | 90-110 | 3 | 20 | mg/kg | 07.14.2020 10:06 | |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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# QC Summary 666985



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131509 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-061 — MS Sample Id: 666985-061 S — MSD Sample Id: 666985-061 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.02 | 251 | 292 | 116 | 280 | 112 | 90-110 | 4 | 20 | mg/kg | 07.13.2020 18:11 | X |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131509 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-071 — MS Sample Id: 666985-071 S — MSD Sample Id: 666985-071 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 22.1 | 253 | 317 | 117 | 301 | 110 | 90-110 | 5 | 20 | mg/kg | 07.13.2020 19:40 | X |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131639 — Matrix: Soil — Date Prep: 07.14.2020
Parent Sample Id: 665689-027 — MS Sample Id: 665689-027 S — MSD Sample Id: 665689-027 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 144 | 248 | 392 | 100 | 393 | 100 | 90-110 | 0 | 20 | mg/kg | 07.14.2020 10:35 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131639 — Matrix: Soil — Date Prep: 07.14.2020
Parent Sample Id: 666985-085 — MS Sample Id: 666985-085 S — MSD Sample Id: 666985-085 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.98 | 249 | 259 | 104 | 259 | 104 | 90-110 | 0 | 20 | mg/kg | 07.14.2020 12:04 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131641 — Matrix: Soil — Date Prep: 07.14.2020
Parent Sample Id: 666985-095 — MS Sample Id: 666985-095 S — MSD Sample Id: 666985-095 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 7.52 | 250 | 257 | 100 | 256 | 99 | 90-110 | 0 | 20 | mg/kg | 07.14.2020 12:08 | |

**Analytical Method:** Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3131641 — Matrix: Soil — Date Prep: 07.14.2020
Parent Sample Id: 666985-105 — MS Sample Id: 666985-105 S — MSD Sample Id: 666985-105 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 8.48 | 250 | 262 | 101 | 261 | 101 | 90-110 | 0 | 20 | mg/kg | 07.14.2020 13:19 | |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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# QC Summary 666985



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131559 — Matrix: Solid — Date Prep: 07.13.2020
MB Sample Id: 7707258-1-BLK — LCS Sample Id: 7707258-1-BKS — LCSD Sample Id: 7707258-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 887 | 89 | 890 | 89 | 70-130 | 0 | 20 | mg/kg | 07.13.2020 12:36 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 914 | 91 | 914 | 91 | 70-130 | 0 | 20 | mg/kg | 07.13.2020 12:36 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 93 | | 91 | | 91 | | 70-130 | % | 07.13.2020 12:36 |
| o-Terphenyl | 98 | | 96 | | 92 | | 70-130 | % | 07.13.2020 12:36 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131558 — Matrix: Solid — Date Prep: 07.13.2020
MB Sample Id: 7707259-1-BLK — LCS Sample Id: 7707259-1-BKS — LCSD Sample Id: 7707259-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 847 | 85 | 847 | 85 | 70-130 | 0 | 20 | mg/kg | 07.13.2020 22:25 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 912 | 91 | 944 | 94 | 70-130 | 3 | 20 | mg/kg | 07.13.2020 22:25 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 94 | | 90 | | 93 | | 70-130 | % | 07.13.2020 22:25 |
| o-Terphenyl | 97 | | 93 | | 98 | | 70-130 | % | 07.13.2020 22:25 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131560 — Matrix: Solid — Date Prep: 07.13.2020
MB Sample Id: 7707261-1-BLK — LCS Sample Id: 7707261-1-BKS — LCSD Sample Id: 7707261-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 870 | 87 | 900 | 90 | 70-130 | 3 | 20 | mg/kg | 07.13.2020 22:25 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 916 | 92 | 886 | 89 | 70-130 | 3 | 20 | mg/kg | 07.13.2020 22:25 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 84 | | 89 | | 84 | | 70-130 | % | 07.13.2020 22:25 |
| o-Terphenyl | 90 | | 94 | | 96 | | 70-130 | % | 07.13.2020 22:25 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



Final 1.000

# QC Summary 666985



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## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131556 — Matrix: Solid — Date Prep: 07.13.2020
MB Sample Id: 7707262-1-BLK — LCS Sample Id: 7707262-1-BKS — LCSD Sample Id: 7707262-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 973 | 97 | 1120 | 112 | 70-130 | 14 | 20 | mg/kg | 07.13.2020 16:41 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1030 | 103 | 1140 | 114 | 70-130 | 10 | 20 | mg/kg | 07.13.2020 16:41 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 109 | | 128 | | 130 | | 70-130 | % | 07.13.2020 16:41 |
| o-Terphenyl | 120 | | 125 | | 129 | | 70-130 | % | 07.13.2020 16:41 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131680 — Matrix: Solid — Date Prep: 07.14.2020
MB Sample Id: 7707333-1-BLK — LCS Sample Id: 7707333-1-BKS — LCSD Sample Id: 7707333-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 1130 | 113 | 1050 | 105 | 70-130 | 7 | 20 | mg/kg | 07.14.2020 09:00 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1160 | 116 | 1010 | 101 | 70-130 | 14 | 20 | mg/kg | 07.14.2020 09:00 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 122 | | 79 | | 128 | | 70-130 | % | 07.14.2020 09:00 |
| o-Terphenyl | 134 | ** | 76 | | 117 | | 70-130 | % | 07.14.2020 09:00 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131683 — Matrix: Solid — Date Prep: 07.14.2020
MB Sample Id: 7707334-1-BLK — LCS Sample Id: 7707334-1-BKS — LCSD Sample Id: 7707334-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 1170 | 117 | 1010 | 101 | 70-130 | 15 | 20 | mg/kg | 07.14.2020 17:52 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1170 | 117 | 1070 | 107 | 70-130 | 9 | 20 | mg/kg | 07.14.2020 17:52 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 123 | | 79 | | 124 | | 70-130 | % | 07.14.2020 17:52 |
| o-Terphenyl | 136 | ** | 73 | | 124 | | 70-130 | % | 07.14.2020 17:52 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131559 — Matrix: Solid — Date Prep: 07.13.2020
MB Sample Id: 7707258-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 07.13.2020 12:15 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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# QC Summary 666985



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3131558 Matrix: Solid Date Prep: 07.13.2020
MB Sample Id: 7707259-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 07.13.2020 22:03 | |

**Analytical Method:** **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3131560 Matrix: Solid Date Prep: 07.13.2020
MB Sample Id: 7707261-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 07.13.2020 22:03 | |

**Analytical Method:** **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3131556 Matrix: Solid Date Prep: 07.13.2020
MB Sample Id: 7707262-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 07.13.2020 16:21 | |

**Analytical Method:** **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3131680 Matrix: Solid Date Prep: 07.14.2020
MB Sample Id: 7707333-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 07.14.2020 08:41 | |

**Analytical Method:** **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3131683 Matrix: Solid Date Prep: 07.14.2020
MB Sample Id: 7707334-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 07.14.2020 17:32 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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# QC Summary 666985



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131559 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666924-008 — MS Sample Id: 666924-008 S — MSD Sample Id: 666924-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 912 | 91 | 904 | 91 | 70-130 | 1 | 20 | mg/kg | 07.13.2020 13:41 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 1030 | 103 | 1060 | 106 | 70-130 | 3 | 20 | mg/kg | 07.13.2020 13:41 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 93 | | 95 | | 70-130 | % | 07.13.2020 13:41 |
| o-Terphenyl | 97 | | 98 | | 70-130 | % | 07.13.2020 13:41 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131558 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-001 — MS Sample Id: 666985-001 S — MSD Sample Id: 666985-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 998 | 781 | 78 | 771 | 77 | 70-130 | 1 | 20 | mg/kg | 07.13.2020 23:29 | |
| Diesel Range Organics (DRO) | <49.9 | 998 | 796 | 80 | 851 | 85 | 70-130 | 7 | 20 | mg/kg | 07.13.2020 23:29 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 89 | | 86 | | 70-130 | % | 07.13.2020 23:29 |
| o-Terphenyl | 93 | | 90 | | 70-130 | % | 07.13.2020 23:29 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131560 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-021 — MS Sample Id: 666985-021 S — MSD Sample Id: 666985-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.8 | 996 | 810 | 81 | 808 | 81 | 70-130 | 0 | 20 | mg/kg | 07.13.2020 23:29 | |
| Diesel Range Organics (DRO) | <49.8 | 996 | 836 | 84 | 864 | 87 | 70-130 | 3 | 20 | mg/kg | 07.13.2020 23:29 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 89 | | 88 | | 70-130 | % | 07.13.2020 23:29 |
| o-Terphenyl | 87 | | 94 | | 70-130 | % | 07.13.2020 23:29 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



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# QC Summary 666985



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131556 — Matrix: Soil — Date Prep: 07.13.2020
Parent Sample Id: 666985-081 — MS Sample Id: 666985-081 S — MSD Sample Id: 666985-081 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 865 | 87 | 869 | 87 | 70-130 | 0 | 20 | mg/kg | 07.13.2020 17:40 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 898 | 90 | 897 | 90 | 70-130 | 0 | 20 | mg/kg | 07.13.2020 17:40 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 125 | | 129 | | 70-130 | % | 07.13.2020 17:40 |
| o-Terphenyl | 121 | | 119 | | 70-130 | % | 07.13.2020 17:40 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131680 — Matrix: Soil — Date Prep: 07.14.2020
Parent Sample Id: 666985-041 — MS Sample Id: 666985-041 S — MSD Sample Id: 666985-041 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 998 | 973 | 97 | 951 | 95 | 70-130 | 2 | 20 | mg/kg | 07.14.2020 09:56 | |
| Diesel Range Organics (DRO) | <49.9 | 998 | 929 | 93 | 978 | 98 | 70-130 | 5 | 20 | mg/kg | 07.14.2020 09:56 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 130 | | 129 | | 70-130 | % | 07.14.2020 09:56 |
| o-Terphenyl | 125 | | 129 | | 70-130 | % | 07.14.2020 09:56 |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131683 — Matrix: Soil — Date Prep: 07.14.2020
Parent Sample Id: 666985-061 — MS Sample Id: 666985-061 S — MSD Sample Id: 666985-061 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 842 | 84 | 842 | 85 | 70-130 | 0 | 20 | mg/kg | 07.14.2020 18:50 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 866 | 87 | 874 | 88 | 70-130 | 1 | 20 | mg/kg | 07.14.2020 18:50 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 125 | | 123 | | 70-130 | % | 07.14.2020 18:50 |
| o-Terphenyl | 114 | | 115 | | 70-130 | % | 07.14.2020 18:50 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



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## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131616 — Matrix: Solid — Date Prep: 07.14.2020
MB Sample Id: 7707350-1-BLK — LCS Sample Id: 7707350-1-BKS — LCSD Sample Id: 7707350-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.126 | 126 | 0.120 | 120 | 70-130 | 5 | 35 | mg/kg | 07.14.2020 13:11 | |
| Toluene | <0.00200 | 0.100 | 0.112 | 112 | 0.107 | 107 | 70-130 | 5 | 35 | mg/kg | 07.14.2020 13:11 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.118 | 118 | 0.113 | 113 | 70-130 | 4 | 35 | mg/kg | 07.14.2020 13:11 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.253 | 127 | 0.241 | 121 | 70-130 | 5 | 35 | mg/kg | 07.14.2020 13:11 | |
| o-Xylene | <0.00200 | 0.100 | 0.119 | 119 | 0.113 | 113 | 70-130 | 5 | 35 | mg/kg | 07.14.2020 13:11 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 84 | | 88 | | 88 | | 70-130 | % | 07.14.2020 13:11 |
| 4-Bromofluorobenzene | 109 | | 113 | | 110 | | 70-130 | % | 07.14.2020 13:11 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131759 — Matrix: Solid — Date Prep: 07.15.2020
MB Sample Id: 7707435-1-BLK — LCS Sample Id: 7707435-1-BKS — LCSD Sample Id: 7707435-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.112 | 112 | 0.0991 | 99 | 70-130 | 12 | 35 | mg/kg | 07.15.2020 08:41 | |
| Toluene | <0.00200 | 0.100 | 0.108 | 108 | 0.0984 | 98 | 70-130 | 9 | 35 | mg/kg | 07.15.2020 08:41 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.108 | 108 | 0.0976 | 98 | 70-130 | 10 | 35 | mg/kg | 07.15.2020 08:41 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.210 | 105 | 0.189 | 95 | 70-130 | 11 | 35 | mg/kg | 07.15.2020 08:41 | |
| o-Xylene | <0.00200 | 0.100 | 0.105 | 105 | 0.0955 | 96 | 70-130 | 9 | 35 | mg/kg | 07.15.2020 08:41 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 110 | | 97 | | 94 | | 70-130 | % | 07.15.2020 08:41 |
| 4-Bromofluorobenzene | 113 | | 99 | | 94 | | 70-130 | % | 07.15.2020 08:41 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131764 — Matrix: Solid — Date Prep: 07.15.2020
MB Sample Id: 7707442-1-BLK — LCS Sample Id: 7707442-1-BKS — LCSD Sample Id: 7707442-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.116 | 116 | 0.124 | 124 | 70-130 | 7 | 35 | mg/kg | 07.15.2020 13:26 | |
| Toluene | <0.00200 | 0.100 | 0.105 | 105 | 0.111 | 111 | 70-130 | 6 | 35 | mg/kg | 07.15.2020 13:26 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.108 | 108 | 0.116 | 116 | 70-130 | 7 | 35 | mg/kg | 07.15.2020 13:26 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.232 | 116 | 0.249 | 125 | 70-130 | 7 | 35 | mg/kg | 07.15.2020 13:26 | |
| o-Xylene | <0.00200 | 0.100 | 0.109 | 109 | 0.117 | 117 | 70-130 | 7 | 35 | mg/kg | 07.15.2020 13:26 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 80 | | 85 | | 88 | | 70-130 | % | 07.15.2020 13:26 |
| 4-Bromofluorobenzene | 98 | | 116 | | 121 | | 70-130 | % | 07.15.2020 13:26 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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



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## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131762 — Matrix: Solid — Date Prep: 07.15.2020
MB Sample Id: 7707438-1-BLK — LCS Sample Id: 7707438-1-BKS — LCSD Sample Id: 7707438-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.112 | 112 | 0.104 | 104 | 70-130 | 7 | 35 | mg/kg | 07.15.2020 19:59 | |
| Toluene | <0.00200 | 0.100 | 0.103 | 103 | 0.0939 | 94 | 70-130 | 9 | 35 | mg/kg | 07.15.2020 19:59 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.101 | 101 | 0.0909 | 91 | 70-130 | 11 | 35 | mg/kg | 07.15.2020 19:59 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.194 | 97 | 0.174 | 87 | 70-130 | 11 | 35 | mg/kg | 07.15.2020 19:59 | |
| o-Xylene | <0.00200 | 0.100 | 0.100 | 100 | 0.0892 | 89 | 70-130 | 11 | 35 | mg/kg | 07.15.2020 19:59 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 105 | | 99 | | 99 | | 70-130 | % | 07.15.2020 19:59 |
| 4-Bromofluorobenzene | 105 | | 100 | | 92 | | 70-130 | % | 07.15.2020 19:59 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131814 — Matrix: Solid — Date Prep: 07.15.2020
MB Sample Id: 7707445-1-BLK — LCS Sample Id: 7707445-1-BKS — LCSD Sample Id: 7707445-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.113 | 113 | 0.120 | 120 | 70-130 | 6 | 35 | mg/kg | 07.16.2020 01:08 | |
| Toluene | <0.00200 | 0.100 | 0.101 | 101 | 0.106 | 106 | 70-130 | 5 | 35 | mg/kg | 07.16.2020 01:08 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.104 | 104 | 0.109 | 109 | 70-130 | 5 | 35 | mg/kg | 07.16.2020 01:08 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.220 | 110 | 0.229 | 115 | 70-130 | 4 | 35 | mg/kg | 07.16.2020 01:08 | |
| o-Xylene | <0.00200 | 0.100 | 0.105 | 105 | 0.111 | 111 | 70-130 | 6 | 35 | mg/kg | 07.16.2020 01:08 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 79 | | 88 | | 85 | | 70-130 | % | 07.16.2020 01:08 |
| 4-Bromofluorobenzene | 101 | | 117 | | 118 | | 70-130 | % | 07.16.2020 01:08 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131855 — Matrix: Solid — Date Prep: 07.15.2020
MB Sample Id: 7707439-1-BLK — LCS Sample Id: 7707439-1-BKS — LCSD Sample Id: 7707439-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.101 | 101 | 0.0931 | 93 | 70-130 | 8 | 35 | mg/kg | 07.16.2020 06:37 | |
| Toluene | <0.00200 | 0.100 | 0.103 | 103 | 0.0955 | 96 | 70-130 | 8 | 35 | mg/kg | 07.16.2020 06:37 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.103 | 103 | 0.0949 | 95 | 70-130 | 8 | 35 | mg/kg | 07.16.2020 06:37 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.200 | 100 | 0.184 | 92 | 70-130 | 8 | 35 | mg/kg | 07.16.2020 06:37 | |
| o-Xylene | <0.00200 | 0.100 | 0.104 | 104 | 0.0958 | 96 | 70-130 | 8 | 35 | mg/kg | 07.16.2020 06:37 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 104 | | 96 | | 94 | | 70-130 | % | 07.16.2020 06:37 |
| 4-Bromofluorobenzene | 103 | | 105 | | 101 | | 70-130 | % | 07.16.2020 06:37 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131871 — Matrix: Solid — Date Prep: 07.16.2020
MB Sample Id: 7707448-1-BLK — LCS Sample Id: 7707448-1-BKS — LCSD Sample Id: 7707448-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.126 | 126 | 0.120 | 120 | 70-130 | 5 | 35 | mg/kg | 07.14.2020 13:11 | |
| Toluene | <0.00200 | 0.100 | 0.112 | 112 | 0.107 | 107 | 70-130 | 5 | 35 | mg/kg | 07.14.2020 13:11 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.118 | 118 | 0.113 | 113 | 70-130 | 4 | 35 | mg/kg | 07.14.2020 13:11 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.253 | 127 | 0.241 | 121 | 70-130 | 5 | 35 | mg/kg | 07.14.2020 13:11 | |
| o-Xylene | <0.00200 | 0.100 | 0.119 | 119 | 0.113 | 113 | 70-130 | 5 | 35 | mg/kg | 07.14.2020 13:11 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 84 | | 88 | | 88 | | 70-130 | % | 07.14.2020 13:11 |
| 4-Bromofluorobenzene | 109 | | 113 | | 110 | | 70-130 | % | 07.14.2020 13:11 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131616 — Matrix: Soil — Date Prep: 07.14.2020
Parent Sample Id: 666985-041 — MS Sample Id: 666985-041 S — MSD Sample Id: 666985-041 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | 0.0992 | 0.123 | 124 | 0.118 | 118 | 70-130 | 4 | 35 | mg/kg | 07.14.2020 13:55 | |
| Toluene | <0.00198 | 0.0992 | 0.109 | 110 | 0.105 | 105 | 70-130 | 4 | 35 | mg/kg | 07.14.2020 13:55 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.115 | 116 | 0.109 | 109 | 70-130 | 5 | 35 | mg/kg | 07.14.2020 13:55 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.246 | 124 | 0.232 | 116 | 70-130 | 6 | 35 | mg/kg | 07.14.2020 13:55 | |
| o-Xylene | <0.00198 | 0.0992 | 0.115 | 116 | 0.110 | 110 | 70-130 | 4 | 35 | mg/kg | 07.14.2020 13:55 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 89 | | 89 | | 70-130 | % | 07.14.2020 13:55 |
| 4-Bromofluorobenzene | 113 | | 116 | | 70-130 | % | 07.14.2020 13:55 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131759 — Matrix: Soil — Date Prep: 07.15.2020
Parent Sample Id: 666985-081 — MS Sample Id: 666985-081 S — MSD Sample Id: 666985-081 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | 0.0992 | 0.0974 | 98 | 0.100 | 100 | 70-130 | 3 | 35 | mg/kg | 07.15.2020 09:21 | |
| Toluene | <0.00198 | 0.0992 | 0.0931 | 94 | 0.0980 | 98 | 70-130 | 5 | 35 | mg/kg | 07.15.2020 09:21 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.0906 | 91 | 0.0978 | 98 | 70-130 | 8 | 35 | mg/kg | 07.15.2020 09:21 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.175 | 88 | 0.191 | 96 | 70-130 | 9 | 35 | mg/kg | 07.15.2020 09:21 | |
| o-Xylene | <0.00198 | 0.0992 | 0.0883 | 89 | 0.0965 | 97 | 70-130 | 9 | 35 | mg/kg | 07.15.2020 09:21 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 96 | | 96 | | 70-130 | % | 07.15.2020 09:21 |
| 4-Bromofluorobenzene | 92 | | 99 | | 70-130 | % | 07.15.2020 09:21 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result



Final 1.000

eurofins | Xenco

# QC Summary 666985



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131764 — Matrix: Soil — Date Prep: 07.15.2020
Parent Sample Id: 666985-061 — MS Sample Id: 666985-061 S — MSD Sample Id: 666985-061 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0996 | 0.131 | 132 | 0.134 | 135 | 70-130 | 2 | 35 | mg/kg | 07.15.2020 14:12 | X |
| Toluene | <0.00199 | 0.0996 | 0.118 | 118 | 0.120 | 121 | 70-130 | 2 | 35 | mg/kg | 07.15.2020 14:12 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.123 | 123 | 0.127 | 128 | 70-130 | 3 | 35 | mg/kg | 07.15.2020 14:12 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.264 | 133 | 0.272 | 137 | 70-130 | 3 | 35 | mg/kg | 07.15.2020 14:12 | X |
| o-Xylene | <0.00199 | 0.0996 | 0.123 | 123 | 0.129 | 130 | 70-130 | 5 | 35 | mg/kg | 07.15.2020 14:12 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 85 | | 88 | | 70-130 | % | 07.15.2020 14:12 |
| 4-Bromofluorobenzene | 113 | | 123 | | 70-130 | % | 07.15.2020 14:12 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131762 — Matrix: Soil — Date Prep: 07.15.2020
Parent Sample Id: 666985-101 — MS Sample Id: 666985-101 S — MSD Sample Id: 666985-101 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | 0.101 | 0.0914 | 90 | 0.0930 | 92 | 70-130 | 2 | 35 | mg/kg | 07.15.2020 20:40 | |
| Toluene | <0.00201 | 0.101 | 0.0850 | 84 | 0.0857 | 85 | 70-130 | 1 | 35 | mg/kg | 07.15.2020 20:40 | |
| Ethylbenzene | <0.00201 | 0.101 | 0.0820 | 81 | 0.0832 | 82 | 70-130 | 1 | 35 | mg/kg | 07.15.2020 20:40 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.156 | 78 | 0.159 | 79 | 70-130 | 2 | 35 | mg/kg | 07.15.2020 20:40 | |
| o-Xylene | <0.00201 | 0.101 | 0.0791 | 78 | 0.0812 | 80 | 70-130 | 3 | 35 | mg/kg | 07.15.2020 20:40 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 99 | | 100 | | 70-130 | % | 07.15.2020 20:40 |
| 4-Bromofluorobenzene | 95 | | 98 | | 70-130 | % | 07.15.2020 20:40 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131814 — Matrix: Soil — Date Prep: 07.15.2020
Parent Sample Id: 666985-001 — MS Sample Id: 666985-001 S — MSD Sample Id: 666985-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.0998 | 0.111 | 111 | 0.112 | 112 | 70-130 | 1 | 35 | mg/kg | 07.16.2020 01:49 | |
| Toluene | <0.00200 | 0.0998 | 0.0979 | 98 | 0.101 | 101 | 70-130 | 3 | 35 | mg/kg | 07.16.2020 01:49 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0995 | 100 | 0.103 | 103 | 70-130 | 3 | 35 | mg/kg | 07.16.2020 01:49 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.208 | 104 | 0.218 | 110 | 70-130 | 5 | 35 | mg/kg | 07.16.2020 01:49 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0977 | 98 | 0.102 | 102 | 70-130 | 4 | 35 | mg/kg | 07.16.2020 01:49 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 87 | | 89 | | 70-130 | % | 07.16.2020 01:49 |
| 4-Bromofluorobenzene | 126 | | 128 | | 70-130 | % | 07.16.2020 01:49 |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

eurofins | Xenco

# QC Summary 666985



## Tetra Tech- Midland

EOG Rattlesnake Reuse Pit

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3131855 Matrix: Soil Date Prep: 07.15.2020
Parent Sample Id: 666985-031 MS Sample Id: 666985-031 S MSD Sample Id: 666985-031 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0996 | 0.0891 | 89 | 0.0833 | 83 | 70-130 | 7 | 35 | mg/kg | 07.16.2020 07:18 | |
| Toluene | <0.00199 | 0.0996 | 0.0902 | 91 | 0.0845 | 85 | 70-130 | 7 | 35 | mg/kg | 07.16.2020 07:18 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0868 | 87 | 0.0829 | 83 | 70-130 | 5 | 35 | mg/kg | 07.16.2020 07:18 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.166 | 83 | 0.160 | 80 | 70-130 | 4 | 35 | mg/kg | 07.16.2020 07:18 | |
| o-Xylene | <0.00199 | 0.0996 | 0.0866 | 87 | 0.0833 | 83 | 70-130 | 4 | 35 | mg/kg | 07.16.2020 07:18 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 97 | | 95 | | 70-130 | % | 07.16.2020 07:18 |
| 4-Bromofluorobenzene | 102 | | 102 | | 70-130 | % | 07.16.2020 07:18 |

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3131871 Matrix: Soil Date Prep: 07.16.2020
Parent Sample Id: 666985-021 MS Sample Id: 666985-021 S MSD Sample Id: 666985-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0994 | 0.114 | 115 | 0.113 | 114 | 70-130 | 1 | 35 | mg/kg | 07.16.2020 13:46 | |
| Toluene | <0.00199 | 0.0994 | 0.100 | 101 | 0.0980 | 99 | 70-130 | 2 | 35 | mg/kg | 07.16.2020 13:46 | |
| Ethylbenzene | <0.00199 | 0.0994 | 0.102 | 103 | 0.0999 | 101 | 70-130 | 2 | 35 | mg/kg | 07.16.2020 13:46 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.215 | 108 | 0.208 | 105 | 70-130 | 3 | 35 | mg/kg | 07.16.2020 13:46 | |
| o-Xylene | <0.00199 | 0.0994 | 0.104 | 105 | 0.0996 | 101 | 70-130 | 4 | 35 | mg/kg | 07.16.2020 13:46 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 89 | | 89 | | 70-130 | % | 07.16.2020 13:46 |
| 4-Bromofluorobenzene | 128 | | 126 | | 70-130 | % | 07.16.2020 13:46 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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**Analysis Request of Chain of Custody Record**

Page 1 of 11

# Tetra Tech, Inc.

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

1616985

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom HOLE # 410 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 411 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 412 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 413 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 414 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 415 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 416 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 417 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 418 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 419 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Conner Moehring | Date: 7/8/20 | Time: 1123 | Received by: [signature] Date: 7/8/20 Time: 1123 |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |

**LAB USE ONLY**

Sample Temperature 1.0/1.2 -0.4 TRB

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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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

1004985

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | # CONTAINERS | FILTERED (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Hole 420 (2' BEB) | 7/7/20 | | | X | | | X | | 1 | 2 |
| | 421 (2' BEB) | | | | X | | | X | | 1 | 2 |
| | 422 (2' BEB) | | | | X | | | X | | 1 | 2 |
| | 423 (2' BEB) | | | | X | | | X | | 1 | 2 |
| | 424 (2' BEB) | | | | X | | | X | | 1 | 2 |
| | 425 (2' BEB) | | | | X | | | X | | 1 | 2 |
| | 426 (2' BEB) | | | | X | | | X | | 1 | 2 |
| | 427 (2' BEB) | | | | X | | | X | | 1 | 2 |
| | 428 (2' BEB) | | | | X | | | X | | 1 | 2 |
| | 429 (2' BEB) | | | | X | | | X | | 1 | 2 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |

Relinquished by: Conner Moehring Date: 7/10/20 Time:
Received by: [signature] Date: 7/18/20 Time: 1173

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

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

**LAB USE ONLY**
Sample Temperature 1.6/1.2

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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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

1044985

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location:** (county, state) Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | # CONTAINERS | FILTERED (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Hole 430 (2' BEB) | 7/7/20 | | | X | | | | X | | 1 | N |
| | 431 (2' BEB) | | | | X | | | | X | | 1 | N |
| | 432 (2' BEB) | | | | X | | | | X | | 1 | N |
| | 433 (2' BEB) | | | | X | | | | X | | 1 | N |
| | 434 (2' BEB) | | | | X | | | | X | | 1 | N |
| | 435 (2' BEB) | | | | X | | | | X | | 1 | N |
| | 436 (2' BEB) | | | | X | | | | X | | 1 | N |
| | 437 (2' BEB) | | | | X | | | | X | | 1 | N |
| | 438 (2' BEB) | | | | X | | | | X | | 1 | N |
| | 439 (2' BEB) | | | | X | | | | X | | 1 | N |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |
| | X | | X | | | | | | | | | | | | X | | | | | | | |

**Relinquished by:** Conner Moehring Date: 7/10/20 Time:

**Received by:** Date: 7/10/20 Time: 1173

**Relinquished by:** Date: Time:

**Received by:** Date: Time:

**Relinquished by:** Date: Time:

**Received by:** Date: Time:

**LAB USE ONLY**

Sample Temperature 1.4/1.2

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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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

LOU995

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Hole 440 (2' BEB) | 7/10/10 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | 441 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | 442 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | 443 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | 444 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | 445 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | 446 (3' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | 447 (3' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | 448 (3' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | 449 (3' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Conner Moehring | Date: 7/10/20 | Time: | Received by: BLue |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: 7/13/20 Time: 1173

**LAB USE ONLY**

Sample Temperature: 1.2

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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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

LOG9985

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | # CONTAINERS | FILTERED (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Hole 450 (3' BEB) | 7/10/20 | | | X | | | X | | 1 | N |
| | 451 (3' BEB) | | | | X | | | X | | 1 | N |
| | 452 (3' BEB) | | | | X | | | X | | 1 | N |
| | 453 (3' BEB) | | | | X | | | X | | 1 | N |
| | 454 (3' BEB) | | | | X | | | X | | 1 | N |
| | 455 (3' BEB) | | | | X | | | X | | 1 | N |
| | 456 (3' BEB) | | | | X | | | X | | 1 | N |
| | 457 (3' BEB) | | | | X | | | X | | 1 | N |
| | 458 (3' BEB) | | | | X | | | X | | 1 | N |
| | 459 (3' BEB) | | | | X | | | X | | 1 | N |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | X | | X | | | | | | | | | | | | X | | | | | | | |
| X | X | | X | | | | | | | | | | | | X | | | | | | | |
| X | X | | X | | | | | | | | | | | | X | | | | | | | |
| X | X | | X | | | | | | | | | | | | X | | | | | | | |
| X | X | | X | | | | | | | | | | | | X | | | | | | | |
| X | X | | X | | | | | | | | | | | | X | | | | | | | |
| X | X | | X | | | | | | | | | | | | X | | | | | | | |
| X | X | | X | | | | | | | | | | | | X | | | | | | | |
| X | X | | X | | | | | | | | | | | | X | | | | | | | |
| X | X | | X | | | | | | | | | | | | X | | | | | | | |

Relinquished by: Conner Moehring Date: 7/10/20 Time:

Received by: Date: 7/13/20 Time: 1123

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

**LAB USE ONLY**

Sample Temperature 1.4/1.2

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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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

lda9985

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - CALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Hole 460 (3' BEB) | 7/10/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 461 (3' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 462 (3' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 463 (3' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 464 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 465 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 466 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 467 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 468 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |
| | 469 (2' BEB) | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| Conner Moehring | 7/10/20 | | BTW | 7/13 | 1123 |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

**LAB USE ONLY**

Sample Temperature 1.4/1.2

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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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

1604985

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE HCL | PRESERVATIVE $HNO_3$ | PRESERVATIVE ICE | PRESERVATIVE None | # CONTAINERS | FILTERED (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Hole 470 (2' BEB) | 7/10/20 | | | X | | | X | | 1 | N |
| | 471 (2' BEB) | | | | X | | | X | | 1 | N |
| | 472 (2' BEB) | | | | X | | | X | | 1 | N |
| | 473 (1.5' BEB) | | | | X | | | X | | 1 | N |
| | 474 (1.5' BEB) | | | | X | | | X | | 1 | N |
| | 475 (1.5' BEB) | | | | X | | | X | | 1 | N |
| | 476 (1.5' BEB) | | | | X | | | X | | 1 | N |
| | 477 (1.5' BEB) | | | | X | | | X | | 1 | N |
| | Bottom Hole 478 (2' BEB | | | | X | | | X | | 1 | N |
| | NORTH 17 SIDEWALL | ↓ | | | X | | | X | | 1 | N |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |

Relinquished by: Conner Moehring Date: 7/10/20 Time:

Received by: Date: 7/13 Time: 1123

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

**LAB USE ONLY**

Sample Temperature 1.4/1.2

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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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

Lab # 680985

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE (YEAR: 2020) | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: None | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NORTH 12 SIDEWALL | 7/10/20 | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |
| | NORTH 13 | | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |
| | NORTH 14 | | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |
| | NORTH 15 | | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |
| | NORTH 16 | | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |
| | SOUTH 10 | | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |
| | SOUTH 11 | | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |
| | SOUTH 12 | | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |
| | SOUTH 13 | | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |
| | SOUTH 14 | | | | X | | | X | | 1 | 2 | X | | X | | | | | | | | | | | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Conner Moehring | Date: 7/10/20 | Time: | Received by: [illegible] |
| Relinquished by: | Date: | Time: | Received by: |
| Relinquished by: | Date: | Time: | Received by: |

Date: 7/13 Time: 1123

**LAB USE ONLY**

Sample Temperature 1.4 | 1.7

**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

1D1049855

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | EAST 10 SIDEWALL | 7/10/20 | | | X | | | X | | 1 | 2 |
| | EAST 11 | | | | X | | | X | | 1 | 2 |
| | EAST 12 | | | | X | | | X | | 1 | 2 |
| | EAST 13 | | | | X | | | X | | 1 | 2 |
| | EAST 14 | | | | X | | | X | | 1 | 2 |
| | EAST 15 | | | | X | | | X | | 1 | 2 |
| | EAST 16 | | | | X | | | X | | 1 | 2 |
| | EAST 17 | | | | X | | | X | | 1 | 2 |
| | EAST 18 | | | | X | | | X | | 1 | 2 |
| | EAST 19 | | | | X | | | X | | 1 | 2 |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |
| X | | X | | | | | | | | | | | | X | | | | | | |

Relinquished by: Tom Murray Date: 7/10/20 Time:
Received by: BCM Date: 7/13 Time: 1123

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

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

**LAB USE ONLY**
Sample Temperature
1.6/1.2

**REMARKS:**
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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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

LOG 995

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EAST 20 SIDEWALL | 7/10/20 | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WEST 12 | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WEST 13 | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WEST 14 | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WEST 15 | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WEST 16 | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WEST 17 | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WEST 18 | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WEST 19 | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | WEST 20 | | | | X | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| Conner Moehring | 7/10/20 | | BGM | 7/13 | 1123 |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

**LAB USE ONLY**
Sample Temperature
1.6 | 1.2

**REMARKS:**
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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**Analysis Request of Chain of Custody Record**

Page 11 of 11

# Tetra Tech, Inc.

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

LDL0985

| | |
|---|---|
| **Client Name:** EOG | **Site Manager:** Mike Carmona |
| **Project Name:** Rattlesnake Reuse Pit | |
| **Project Location: (county, state)** Lea Co, NM | **Project #:** 212C-MD-01974 |
| **Invoice to:** EOG - GALEN KELLY (TODD WELLS) | |
| **Receiving Laboratory:** Xenco | **Sampler Signature:** Conner Moehring |
| **Comments:** | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2020 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WEST 21 | 7/10/20 | | | X | | | | X | | 1 | N |
| | WEST 22 | 7/10/20 | | | X | | | | X | | 1 | N |
| | South 15 | | | | | | | | | | | |
| | EAST 21 | | | | | | | | | | | |
| | WEST 23 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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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 | Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WEST 21 | X | | X | | | | | | | | | | | | X | | | | | | | |
| WEST 22 | X | | X | | | | | | | | | | | | X | | | | | | | |

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| Conner Moehring | 7/10/20 | | | 7/13 | 1123 |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |

**LAB USE ONLY**

Sample Temperature 1.6/1.2

**REMARKS:**

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Tetra Tech- Midland

**Date/ Time Received:** 07.13.2020 11.23.00 AM

**Work Order #:** 666985

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : IR-8**

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | 1.2 | |
| #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** | BTEX was in bulk container |
| #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)? | **N/A** | |
| #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:** Brianna Teel Date: 07.13.2020

Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 07.15.2020

Jessica Kramer

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 34228

## CONDITIONS

| Operator: | OGRID: |
|---|---|
| EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | 7377 |
| | Action Number:<br>34228 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| chensley | None | 7/15/2021 |