| | | SIT | E INFORMA | | | | | | | | | |
|---|--------------------------|----------------|---------------|--------------|------------------------------|---|--|--|--|--|--|--|
| | F | Report Type | e: Work Pla | n <u>1</u> R | P-5113 | | | | | | | |
| General Site Info | ormation: | | | | | | | | | | | |
| Site: | | Rattlesnake Re | euse Pit | | | | | | | | | |
| Company: | | EOG Resource | es, Inc. | | | | | | | | | |
| Section, Townsh | nip and Range | Unit M | Sec. 22 | T 26S | R 33E | | | | | | | |
| Lease Number: | · · · · | 1RF-12 | | | | | | | | | | |
| County: | | Lea County | | | | | | | | | | |
| GPS: | | | 32.0227º N | | 103.5686º W | | | | | | | |
| Surface Owner: | | Fee | | | | | | | | | | |
| Mineral Owner: | | 1 | | | | | | | | | | |
| Directions: From the intersection of CR 1 and Pipeline Rd, travel east on Pipeline Rd for approx. 7.10 mi, turn south onto lease road and continue for 3.6 mi., turn east onto lease road for 0.8 mi, turn north for 0.15 mi to location. | | | | | | | | | | | | |
| Release Data: | | | | | | | | | | | | |
| | | 2/22/2010 | | | | | | | | | | |
| Date Released: | | 6/22/2018 | | | | | | | | | | |
| Type Release: | • • • | Produced Wate | r <u> </u> | | | | | | | | | |
| Source of Contam | nination: | Tank Overflow | | | | | | | | | | |
| Fluid Released: | . | 1486 bbls | | | | | | | | | | |
| Fluids Recovered | | 510 bbls | | | | | | | | | | |
| Official Commun | nication: | | | | | | | | | | | |
| Name: | Jamon Hohensee | | | | Clair Gonzales | | | | | | | |
| Company: | EOG Resources | | | | Tetra Tech | | | | | | | |
| Address: | 5509 Champions D | rive | 1 | | 901 West Wall St. | | | | | | | |
| | | | | | Suite 100 | | | | | | | |
| City: | Midland, TX 79706 | | + | | Midland, Texas | | | | | | | |
| City. Phone number: | | | ł | | , | | | | | | | |
| | (432) 556-8074 | | | | (432) 687-8123 | | | | | | | |
| Fax: | | | | | | | | | | | | |
| Email: | jamon_hohensee | @eogresources. | <u>com</u> | | clair.gonzales@tetratech.com | | | | | | | |
| Ranking Criteria | | | | | | | | | | | | |
| Depth to Groundw | vater: | | Ranking Score | ſ | Site Data | | | | | | | |
| <50 ft | | | 20 | | | | | | | | | |
| 50-99 ft | | | 10 | l | | | | | | | | |
| >100 ft. | | | 0 | | 110' | | | | | | | |
| | | | · | | | | | | | | | |
| WellHead Protection | | | Ranking Score | | Site Data | _ | | | | | | |
| | 000 ft., Private <200 ft | | 20 | | | | | | | | | |
| Water Source >1,0 | 000 ft., Private >200 ft | <u>t.</u> | 0 | | 0 | | | | | | | |
| Surface Body of W | Votor | | Ranking Score | · | Site Data | | | | | | | |
| <200 ft. | later. | | 20 | | Sile Dala | | | | | | | |
| 200 ft - 1,000 ft. | | | 10 | | | | | | | | | |
| >1,000 ft. | | | 0 | | 0 | | | | | | | |
| | | | | | | | | | | | | |
| Тс | otal Ranking Score |): | 0 | | | | | | | | | |

| Acceptable Soil RRAL (mg/kg) | | | | | | | | | | |
|------------------------------|------------|-------|--|--|--|--|--|--|--|--|
| Benzene | Total BTEX | TPH | | | | | | | | |
| 10 | 50 | 2,500 | | | | | | | | |



August 30, 2018

Ms. Olivia Yu Environmental Engineer Specialist Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico, 88240 **REVIEWED** By Olivia Yu at 10:36 am, Oct 07, 2018

Re: Work Plan for the EOG Resources, Rattlesnake Reuse Pit, Unit M, Section 22, Township 26 South, Range 33 East, Lea County, New Mexico. 1RP-5113.

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to evaluate a release that occurred at the Rattlesnake Reuse Pit, Unit M, Section 22, Township 26 South, Range 33 East, Lea County, New Mexico (site). The spill site coordinates are N 32.0227°, W 103.5686°. 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 June 22, 2018, and released approximately 1,486 barrels of produced water due to a tank overflow. Vacuum trucks were dispatched to remove the freestanding fluids, recovering approximately 510 barrels of produced water. The release occurred on the pad area impacting an area measuring approximately 155' x 325' before migrating onto the adjacent pipeline right-of-way's impacting areas measuring approximately 40' x 360' and 60' x 200'. The pad area was scraped as a part of the emergency response. The initial C-141 Form is included in Appendix A.

Groundwater

One water well is listed in Section 22 on the New Mexico Office of the State Engineer's website, approximately 0.50 miles east of the release area, with a reported depth to groundwater of 110 feet below surface. No wells are listed in Section 22 of the USGS National Water Information System of the Geology and Groundwater Conditions in Southern Lea County, NM (Report 6). According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is between 125 and 150 feet below surface. The groundwater data is shown in Appendix B.



Regulatory

A risk-based evaluation was performed for the Site in accordance with 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 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). Based upon the depth to groundwater, the proposed RRAL for TPH is 2,500 mg/kg (GRO + DRO + ORO) or 1,000 mg/kg (GRO + DRO). Additionally, based on the reported depth to groundwater in the area, the proposed RRAL for chlorides is 20,000 mg/kg.

Soil Assessment and Analytical Results

On July 2 and 17, 2018, Tetra Tech personnel were onsite to evaluate and sample the release area. Thirteen (13) sample points (T-1. T-2, T-3, T-4, T-5, T-6, T-7, AH-8, AH-9, AH-10, T-11, T-12, and T-13) were installed using a backhoe to trench or a hand auger. The areas between the buried pipelines were hand augered due to safety concerns. Selected samples were analyzed for TPH by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown in Figure 3.

Referring to Table 1, none of the samples collected showed chloride concentrations above the RRAL. Additionally, the areas of sample points (T-1, T-2, T-3, T-4, T-5, T-6, T-7, AH-8, T-11, T-12, and T-13) did not show any benzene, total BTEX, or TPH concentrations above the RRALs. However, the areas of sample points (AH-9 and AH-10) showed a shallow hydrocarbon impact with TPH concentrations of 13,300 mg/kg and 8,780 mg/kg at 0-1.0' below surface, respectively. The TPH concentrations in these areas then declined with depth to 237 mg/kg (AH-9) and 143 mg/kg (AH-10) at 1.0'-1.5' below surface.

Work Plan

Based on the laboratory data, EOG proposes to excavate the areas as shown on Figure 4 and highlighted (green) on Table 1. The areas of trenches (T-1, T-2, T-3, T-4, T-5, T-6, and T-7) to between 1.0' and 2.0' below surface to remove the shallow chloride impact to the soils. Additionally, the areas of auger holes (AH-8, AH-9, and AH-10) will be excavated to approximately 3.0' to 4.0' below surface to the maximum extent practicable in order to remove the shallow TPH and chloride impact detected. However, excavation activities will not be performed within 3.0' to 5.0' of the buried lines due to safety concerns.



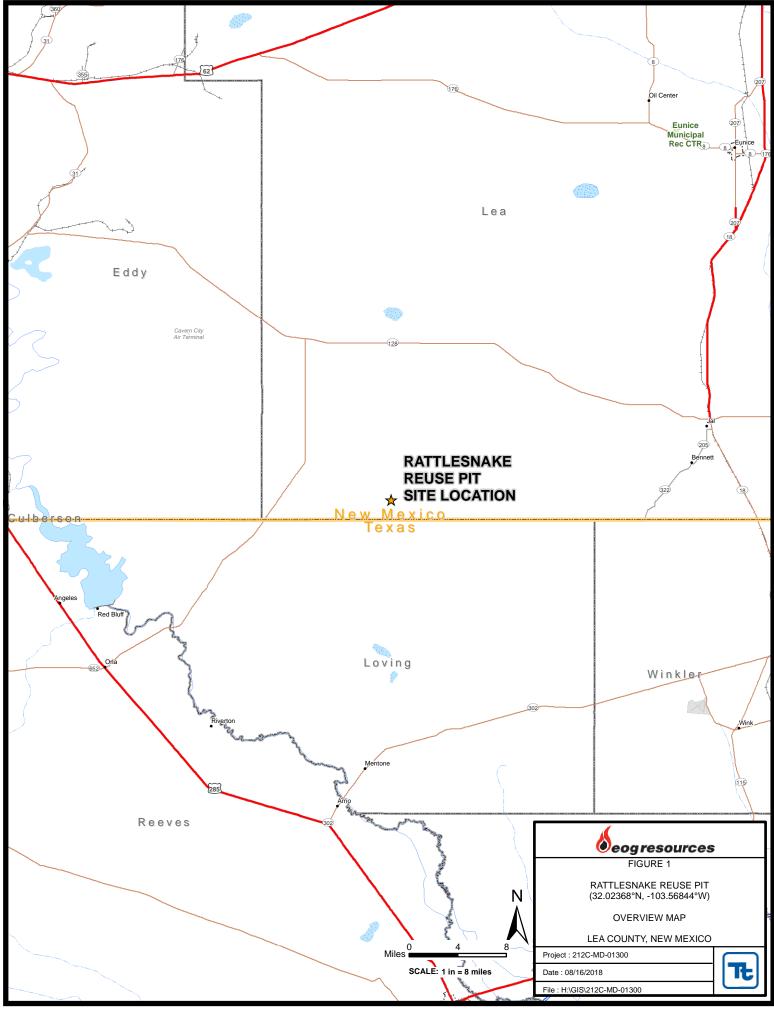
The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns for onsite personnel. As such, EOG will excavate the impacted soils to the maximum extent practicable.

Upon completion, a final report detailing the remediation activities will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call at (432) 682-4559.

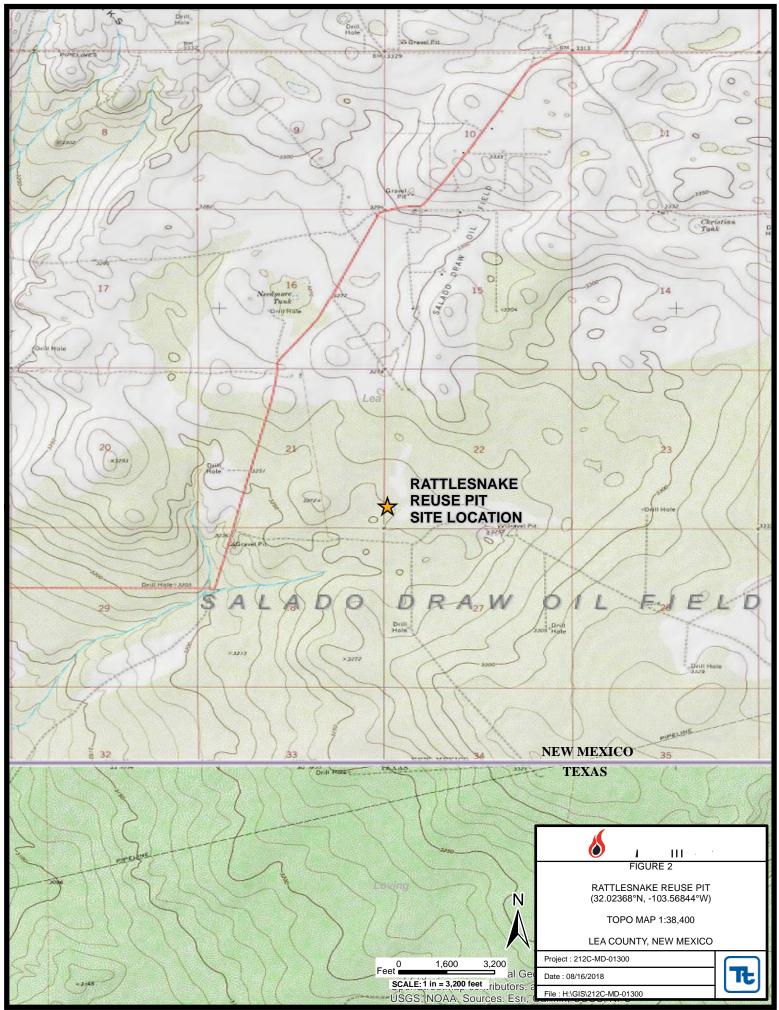
Respectfully submitted, TETRA TECH

Clair Gonzales, Project Manager

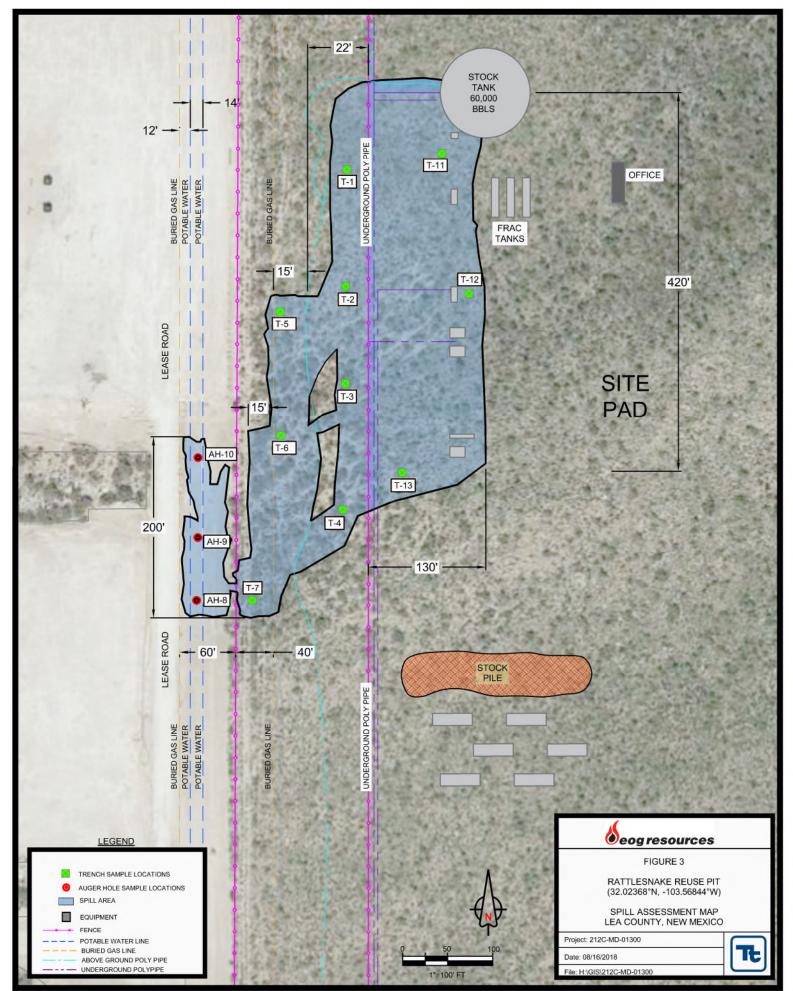
Figures



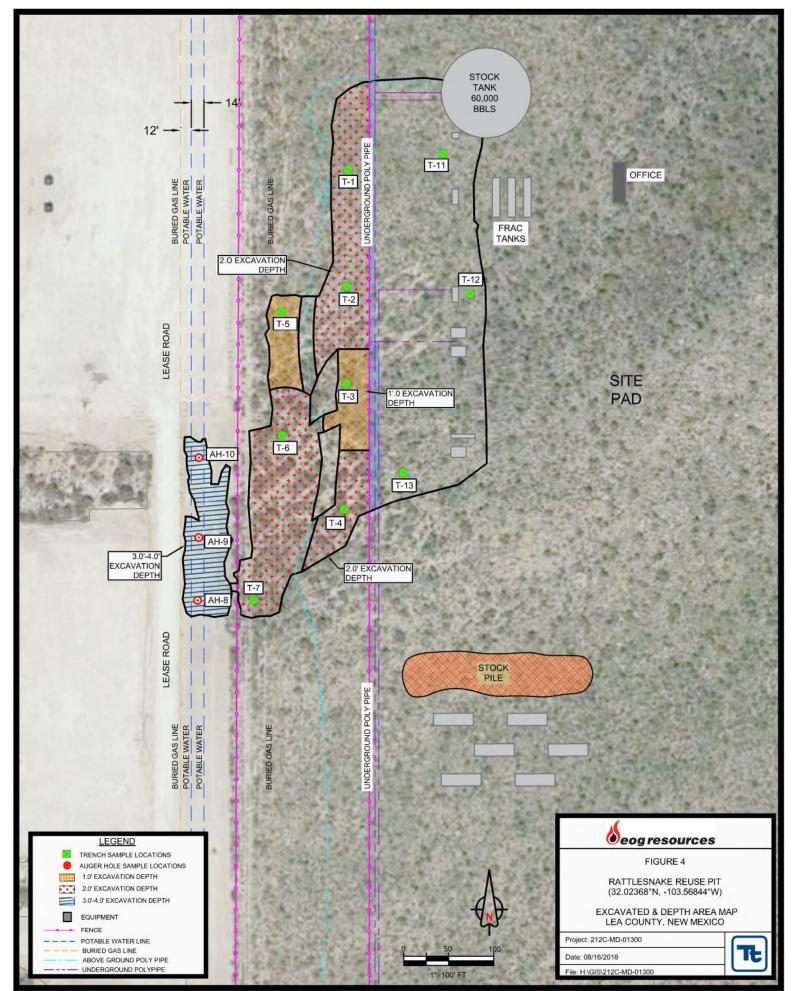
Mapped By: Misti Morgan



Mapped By: Misti Morgan



Drawn By: MISTI MORGAN



Drawn By: MISTI MORGAN

Tables

| | Sample | Sample | BEB | Soil | Status | | TPH (m | na/ka) | | Benzene | Toluene | Ethlybenzene | | | Chloride |
|-----------|----------|------------|----------------------|--------------|---------|--------------|--------|--------------|--------------|-----------|-----------|--------------|-----------|-----------|----------|
| Sample ID | Date | Depth (ft) | Sample Depth (in) | | | 0.00 | DRO | | Tetel | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| T-1 | 7/2/2018 | 0-1 | - | In-Situ X | Removed | GRO <14.9 | 537 | ORO <14.9 | Total 537 | < 0.00201 | < 0.00201 | <0.00201 | <0.00201 | < 0.00201 | 5,560 |
| | " | 1 | - | X | | - | - | - | - | - | - | - | - | - | 6,460 |
| | | 2 | | X | | | | | - | | | - | - | - | 1,880 |
| | | 4 | - | X | | - | - | | - | - | - | - | - | - | 14.7 |
| | | 6 | - | X | | | | | - | | | - | - | - | 138 |
| | | 8 | - | X | | | - | - | - | - | - | - | - | - | 133 |
| | | 10 | _ | X | | - | - | | - | | - | - | - | - | 289 |
| | " | 10 | - | X | | - | - | - | - | - | - | - | - | - | 418 |
| T-2 | 7/2/2018 | 0-1 | - | Х | | <15.0 | 18.6 | <15.0 | 18.6 | < 0.00201 | < 0.00201 | <0.00201 | < 0.00201 | < 0.00201 | 935 |
| | " | 1 | - | X | | - | - | - | - | - | - | - | - | - | 154 |
| | " | 2 | - | X | | - | - | - | - | - | - | - | - | - | 4,230 |
| | n | 4 | - | X | | - | - | - | - | - | - | - | - | - | 34.5 |
| | " | 6 | - | х | | - | - | - | - | - | - | - | - | - | 24.5 |
| | " | 8 | - | Х | | - | - | - | - | - | - | - | - | - | 72.4 |
| T-3 | 7/2/2018 | 0-1 | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | < 0.00199 | < 0.00199 | <0.00199 | < 0.00199 | < 0.00199 | 2,130 |
| | " | 1 | - | Х | | - | - | - | - | - | - | - | - | - | 2,000 |
| | " | 2 | - | Х | | - | - | - | - | - | - | - | - | - | 270 |
| | " | 4 | - | Х | | - | - | - | - | - | - | - | - | - | 33.3 |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | 219 |
| | " | 8 | - | Х | | - | - | - | - | - | - | - | - | - | 7.59 |
| | п | 10 | - | Х | | - | - | - | - | - | - | - | - | - | <4.95 |
| T-4 | 7/2/2018 | 0-1 | - | Х | | <15.0 | 26.5 | <15.0 | 26.5 | < 0.00200 | < 0.00200 | <0.00200 | < 0.00200 | < 0.00200 | 2,700 |
| | " | 1 | - | Х | | - | - | - | - | - | - | - | - | - | 3,580 |
| | " | 2 | - | Х | | - | - | - | - | - | - | - | - | - | 3,290 |
| | " | 4 | - | Х | | - | - | - | - | - | - | - | - | - | 195 |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | 117 |
| | n | 8 | - | Х | | - | - | - | - | - | - | - | - | - | 10.7 |
| T-5 | 7/2/2018 | 0-1 | - | Х | | <15.0 | 168 | <15.0 | 168 | < 0.00200 | < 0.00200 | <0.00200 | < 0.00200 | < 0.00200 | 1,770 |
| | " | 1 | - | Х | | - | - | - | - | - | - | - | - | - | 2,020 |
| | " | 2 | - | х | | - | - | - | - | - | - | - | - | - | 146 |
| | " | 4 | - | Х | | - | - | - | - | - | - | - | - | - | 48.2 |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | 21.1 |
| | n | 8 | - | Х | | - | - | - | - | - | - | - | - | - | 15.7 |
| T-6 | 7/2/2018 | 0-1 | - | Х | | <15.0 | 404 | <15.0 | 404 | <0.00199 | < 0.00199 | <0.00199 | < 0.00199 | < 0.00199 | 5,290 |
| | " | 1 | - | Х | | - | - | - | - | - | - | - | - | - | 4,140 |
| | " | 2 | - | Х | | - | - | - | - | - | - | - | - | - | 1,240 |
| | " | 4 | - | х | | - | - | - | - | - | - | - | - | - | 8.37 |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | 1,010 |
| | n | 8 | - | Х | | - | - | - | - | - | - | - | - | - | 11.5 |
| T-7 | 7/2/2018 | 0-1 | - | Х | | <15.0 | 538 | <15.0 | 538 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 4,850 |
| | " | 1 | - | Х | | - | - | - | - | - | - | - | - | - | 5,060 |
| | " | 2 | - | Х | | - | - | - | - | - | - | - | - | - | 3,490 |
| | " | 4 | - | х | | - | - | - | - | - | - | - | - | - | 219 |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | 54.1 |
| | | 8 | - | Х | 1 | - | - | - | - | - | - | - | - | - | 427 |

| Semale ID | Sample | Sample | BEB | Soil S | Status | | TPH (mg/kg) | | Benzene | Toluene | Ethlybenzene | Xylene | Total BTEX | Chlorid | |
|-----------|------------------------------|------------|----------------------|---------|---------|---|-------------|---------|---------|-----------|--------------|----------|------------|-----------|------|
| Sample ID | Date | Depth (ft) | Sample Depth (in) | In-Situ | Removed | GRO DRO ORO Total <15.0 653 <15.0 653 <0. | | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg | | |
| AH-8 | 7/2/2018 | 0-1 | - | Х | | <15.0 | 653 | <15.0 | 653 | <0.00200 | <0.00200 | <0.00200 | < 0.00200 | < 0.00200 | 4,07 |
| | " | 1-1.5 | - | Х | | - | - | - | - | - | - | - | - | - | 4,59 |
| | " | 2-2.5 | - | Х | | - | - | - | - | - | - | - | - | - | 5,47 |
| AH-9 | 7/2/2018 | 0-1 | - | Х | | 224 | 13,000 | 89.8 | 13,300 | < 0.00200 | < 0.00200 | 0.00746 | 0.0921 | 0.0996 | 3,14 |
| | " | 1-1.5 | - | Х | | <15.0 | 237 | <15.0 | 237 | - | - | - | - | - | 4,40 |
| | " | 2-2.5 | - | Х | | - | - | - | - | - | - | - | - | - | 7,25 |
| | " | 3-3.5 | - | Х | | - | - | - | - | - | - | - | - | - | 4,96 |
| AH-10 | 7/2/2018 | 0-1 | - | Х | | 104 | 8,530 | 147 | 8,780 | < 0.00199 | < 0.00199 | 0.00346 | 0.0674 | 0.0709 | 3,34 |
| | " | 1-1.5 | - | Х | | <15.0 | 143 | <15.0 | 143 | - | - | - | - | - | 4,85 |
| | " | 2-2.5 | - | Х | | - | - | - | - | - | - | - | - | - | 6,14 |
| | " | 3-3.5 | - | Х | | - | - | - | - | - | - | - | - | - | 4,00 |
| T-11 | 7/17/2018 | 0-1 | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 3,12 |
| | " | 1 | - | Х | | - | - | - | - | - | - | - | - | - | 2,02 |
| | " | 2 | - | Х | | - | - | - | - | - | - | - | - | - | 960 |
| | " | 4 | - | Х | | - | - | - | - | - | - | - | - | - | 118 |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | <4.9 |
| | " | 8 | - | Х | | - | - | - | - | - | - | - | - | - | 12. |
| | " | 10 | - | Х | | - | - | - | - | - | - | - | - | - | 49 |
| T-12 | 7/17/2018 | 0-1 | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 1,26 |
| | " | 1 | - | Х | | - | - | - | - | - | - | - | - | - | 826 |
| | " | 2 | - | Х | | - | - | - | - | - | - | - | - | - | 50. |
| | " | 4 | - | Х | | - | - | - | - | - | - | - | - | - | 5.8 |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | 24. |
| | " | 8 | - | Х | | - | - | - | - | - | - | - | - | - | 24. |
| | " | 10 | - | Х | | - | - | - | - | - | - | - | - | - | 12. |
| T-13 | 7/17/2018 | 0-1 | - | Х | | <14.9 | <14.9 | <14.9 | <14.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 26 |
| | " | 1 | - | Х | | - | - | - | - | - | - | - | - | - | 28. |
| | " | 2 | - | Х | | - | - | - | - | - | - | - | - | - | 10. |
| | " | 4 | - | Х | | - | - | - | - | - | - | - | - | - | 17 |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | 12. |
| | " | 8 | - | Х | | - | - | - | - | - | - | - | - | - | <5.0 |
| | " | 10 | - | Х | | - | - | - | - | - | - | - | - | - | <5.0 |
| (-) | Not Analyzed Proposed Exe | | oths | | | | | | | | | | | | |

Photos



View North – Area of T-1



View South – Areas of T-2 and T-3



View East – Area of T-4



View East – Area of T-5



View South – Area of T-6



View North – Area of T-7



View North – Areas of AH-8 and AH-9



View North – Area of AH-10



View North – Area of T-11



View North – Area of T-12



View North – Area of T-13

Appendix A

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa I | Fe, NM 87505 | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| Release Notification | on and Corrective Action | | | | | | | |
| | OPERATOR Initial Report I Final Report | | | | | | | |
| Name of Company: EOG Resources | Contact: Jamon Hohensee | | | | | | | |
| Address: 5509 Champions Drive, Midland, TX 79706 | Telephone No. 432-556-8074 | | | | | | | |
| Facility Name: Rattlesnake Reuse Pit | Facility Type: PW water recycling facility | | | | | | | |
| Surface Owner: Oliver Keinhe Mineral Owner | : EOG Resources API No. 1RF-12 | | | | | | | |
| LOCATIO | DN OF RELEASE | | | | | | | |
| Unit LetterSectionTownshipRangeFeet from theNortM2226S33E | h/South Line Feet from the East/West Line County | | | | | | | |
| Latitude32.0227 | Longitude103.5686 | | | | | | | |
| NATURI | E OF RELEASE | | | | | | | |
| Type of Release: Produced water | Volume of Release: 1486 bbls Volume Recovered: 510bbls | | | | | | | |
| Source of Release: Tank overflow | Date and Hour of OccurrenceDate and Hour of Discovery 6/22/186/22/18 02000800 | | | | | | | |
| Was Immediate Notice Given? | If YES, To Whom? | | | | | | | |
| By Whom? Jamon Hohensee | Date and Hour: 6/22/18 0900 | | | | | | | |
| Was a Watercourse Reached? | If YES, Volume Impacting the Watercourse. | | | | | | | |
| If a Watercourse was Impacted, Describe Fully.* | | | | | | | | |
| | RECEIVED | | | | | | | |
| | By Olivia Yu at 10:08 am, Jul 03, 2018 | | | | | | | |
| | k. 1486bbls of pw ran over the top of the tank and onto pad and adjacent pipeline ediately to remove surface contaminates. Spill area will be vertically and | | | | | | | |
| Describe Area Affected and Cleanup Action Taken.* | | | | | | | | |
| | | | | | | | | |
| regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia | the best of my knowledge and understand that pursuant to NMOCD rules and notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability ate contamination that pose a threat to ground water, surface water, human health does not relieve the operator of responsibility for compliance with any other | | | | | | | |
| | OIL CONSERVATION DIVISION | | | | | | | |
| Signature: Sou A | $\mathcal{I}_{\mathcal{N}}$ | | | | | | | |
| Printed Name: Jamon Hohensee | Approved by Environmental Specialist: | | | | | | | |
| Title: Environmental Rep | Approval Date: 7/3/2018 Expiration Date: | | | | | | | |
| E-mail Address: jamon_hohensee@eogresources.com | Conditions of Approval: | | | | | | | |
| Date: 6/28/18 Phone: 432-556-8074 | See attached directive | | | | | | | |
| * Attach Additional Sheets If Necessary | 1RP-5113 nOY1818436853 pOY1818438144 | | | | | | | |

fTO1716429249

Appendix B

Water Well Data Average Depth to Groundwater (ft) EOG - Rattlesnake Re-Use Pit Lea County, New Mexico

| | 25 \$ | South | : | 32 Eas | t | |
|----|------------------|-------|----|--------|----|--|
| 6 | 5 | 4 | 3 | 2 | 1 | |
| 7 | 8 | 9 | 10 | 11 | 12 | |
| 18 | 17 | 16 | 15 | 14 | 13 | |
| 19 | 20 | 21 | 22 | 23 | 24 | |
| 30 | 29 | 28 | 27 | 26 | 25 | |
| 31 | 32 290 | 33 | 34 | 35 | 36 | |

| | 26 So | outh | 32 | East | |
|------------------|-------|----------------------------|----|------|----|
| 6 350 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 <mark>333</mark> 180 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 295 | 32 | 33 | 34 | 35 | 36 |

| | 25 S | South | 33 | B East | |
|------------------|------------------|-----------|-----------|-----------|-----------|
| 6 | 5 | 4 | 3 172 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 140 | 12 200 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 200 | 21 120 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 125 | 26 | 25 |
| 31 257 | 32 | 33 | 34 | 35 | 36 |

| | 26 Sc | outh | 33 | East | |
|----|-------|------|-----|------|-----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| | | | 175 | | |
| 7 | 8 | 9 | 10 | 11 | 12 |
| | | | | 145 | 200 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| | | | | 135 | |
| 19 | 20 | 21 | 22 | 23 | 24 |
| | | 120 | 110 | | |
| 30 | 29 | 28 | 27 | 26 | 25 |
| | | | 125 | | |
| 31 | 32 | 33 | 34 | 35 | 36 |
| | | | | | |

| | 25 Sc | outh | 34 | East | |
|----|---------------------|------|------------------|------|------------------|
| 6 | 5 | 4 | 3 | 2 | 1 |
| | | | | | 260 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 135 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 300 |
| 30 | 29 128 50 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

| | 26 So | outh | 34 | East | |
|----------------------------|-------|------|----|------|----|
| 6 1 <mark>60</mark> 175 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

- 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

DepthWellDepthWater Column

Water

25

40

| _ | | | | | | | | | | | | | | |
|---|---|---|-------------|--------------|---|---------|---|-----|-------------|-------------------|------------------|----------------|----------------------------|-------------|
| | | Wat | | | | | | | 00 | | v | | Engineer th to W | ater |
| | (A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) | (R=POD replaced, O=orpha C=the file closed) | ned, | (qı | | | | | | E 3=SV argest) | V 4=SE) (NAD8 | 3 UTM in meter | s) (In | feet) |
| | POD Number | Cada | POD Sub- | County | - | Q 16 | | See | True | Dna | x | V | DouthWollDouth | Water Colum |
| | <u>C 02270</u> | Code | CUB | County LE | 1 | | | 27 | 1 ws 26S | 33E | A 636063 | ¥ 3543722 🧉 | DepthWellDepth 150 | 125 |
| | <u>C 02273</u> | | CUB | LE | | 1 | 2 | 21 | 26S | 33E | 634549 | 3545134* 🌍 | 160 | 120 |
| | <u>C 02285 POD1</u> | | CUB | LE | 1 | 4 | 4 | 03 | 26S | 33E | 636613 | 3548855 🌍 | 220 | 220 |
| | C 02286 | | CUB | LE | 3 | 4 | 4 | 03 | 265 | 33F | 636470 | 3548714 🧰 | 220 | 175 |

| <u>C 02285 POD1</u> | CUB | LE | 1 | 4 | 4 | 03 | 26S | 33E | 636613 | 3548855 🌍 | 220 | 220 | 0 |
|---------------------|-----|----|---|---|---|----|-----|-----|--------|------------------|--------|---------|-----|
| <u>C 02286</u> | CUB | LE | 3 | 4 | 4 | 03 | 26S | 33E | 636470 | 3548714 🌍 | 220 | 175 | 45 |
| <u>C 02287</u> | С | LE | 3 | 4 | 4 | 03 | 26S | 33E | 636427 | 3548708 🌍 | 220 | | |
| <u>C 02288</u> | CUB | LE | 4 | 4 | 4 | 03 | 26S | 33E | 636646 | 3548758 🧉 | 220 | 180 | 40 |
| <u>C 02289</u> | CUB | LE | 4 | 4 | 4 | 03 | 26S | 33E | 636612 | 3548675* 🌍 | 200 | 160 | 40 |
| <u>C 02290</u> | CUB | LE | 4 | 4 | 4 | 03 | 26S | 33E | 636538 | 3548770 🌍 | 200 | 160 | 40 |
| <u>C 02293</u> | CUB | LE | 2 | 2 | 1 | 14 | 26S | 33E | 637501 | 3546975 🌍 | 200 | 135 | 65 |
| <u>C 02294</u> | CUB | LE | 4 | 4 | 3 | 11 | 26S | 33E | 637465 | 3547003 🌍 | 200 | 145 | 55 |
| <u>C 02295</u> | CUB | LE | 2 | 2 | 4 | 12 | 26S | 33E | 639850 | 3547710* 🌍 | 250 | 200 | 50 |
| <u>C 03577 POD1</u> | CUB | LE | 3 | 3 | 3 | 22 | 26S | 33E | 636010 | 3543771 🧉 | 750 | 110 | 640 |
| <u>C 03596 POD1</u> | С | LE | 3 | 3 | 4 | 22 | 26S | 33E | 636017 | 3543756 🌍 | 225 | | |
| | | | | | | | | | | Average Depth to | Water: | 157 fee | t |
| | | | | | | | | | | Minimum | Depth: | 110 fee | t |
| | | | | | | | | | | Maximum | Depth: | 220 fee | t |

Record Count: 13

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.

8/3/18 12:40 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix C

Analytical Report 591157

for Tetra Tech- Midland

Project Manager: Clair Gonzales

Rattle Snake Reuse Pit

212C-MD-01300

10-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



10-JUL-18



Project Manager: **Clair Gonzales Tetra Tech- Midland** 4000 N. Big Spring Suite 401 Midland, TX 79705

Reference: XENCO Report No(s): **591157 Rattle Snake Reuse Pit** Project Address: Lea County, NM

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 591157. 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. 591157 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,

Knisk

Kelsey Brooks Project Manager

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 591157



Tetra Tech- Midland, Midland, TX

Rattle Snake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------|--------|----------------|--------------|---------------|
| T-1 (0-1') | S | 07-02-18 00:00 | | 591157-001 |
| T-1 (1') | S | 07-02-18 00:00 | | 591157-002 |
| T-1 (2') | S | 07-02-18 00:00 | | 591157-003 |
| T-1 (4') | S | 07-02-18 00:00 | | 591157-004 |
| T-1 (6') | S | 07-02-18 00:00 | | 591157-005 |
| T-1 (8') | S | 07-02-18 00:00 | | 591157-006 |
| T-1 (10') | S | 07-02-18 00:00 | | 591157-007 |
| T-1 (12') | S | 07-02-18 00:00 | | 591157-008 |
| T-2 (0-1') | S | 07-02-18 00:00 | | 591157-009 |
| T-2 (1') | S | 07-02-18 00:00 | | 591157-010 |
| T-2 (2') | S | 07-02-18 00:00 | | 591157-011 |
| T-2 (4') | S | 07-02-18 00:00 | | 591157-012 |
| T-2 (6') | S | 07-02-18 00:00 | | 591157-013 |
| T-2 (8') | S | 07-02-18 00:00 | | 591157-014 |
| T-3 (0-1') | S | 07-02-18 00:00 | | 591157-015 |
| T-3 (1') | S | 07-02-18 00:00 | | 591157-016 |
| T-3 (2') | S | 07-02-18 00:00 | | 591157-017 |
| T-3 (4') | S | 07-02-18 00:00 | | 591157-018 |
| T-3 (6') | S | 07-02-18 00:00 | | 591157-019 |
| T-3 (8') | S | 07-02-18 00:00 | | 591157-020 |
| T-3 (10') | S | 07-02-18 00:00 | | 591157-021 |
| T-4 (0-1') | S | 07-02-18 00:00 | | 591157-022 |
| T-4 (1') | S | 07-02-18 00:00 | | 591157-023 |
| T-4 (2') | S | 07-02-18 00:00 | | 591157-024 |
| T-4 (4') | S | 07-02-18 00:00 | | 591157-025 |
| T-4 (6') | S | 07-02-18 00:00 | | 591157-026 |
| T-4 (8') | S | 07-02-18 00:00 | | 591157-027 |
| T-5 (0-1') | S | 07-02-18 00:00 | | 591157-028 |
| T-5 (1') | S | 07-02-18 00:00 | | 591157-029 |
| T-5 (2') | S | 07-02-18 00:00 | | 591157-030 |
| T-5 (4') | S | 07-02-18 00:00 | | 591157-031 |
| T-5 (6') | S | 07-02-18 00:00 | | 591157-032 |
| T-5 (8') | S | 07-02-18 00:00 | | 591157-033 |
| T-6 (0-1') | S | 07-02-18 00:00 | | 591157-034 |
| T-6 (1') | S | 07-02-18 00:00 | | 591157-035 |
| T-6 (2') | S | 07-02-18 00:00 | | 591157-036 |
| T-6 (4') | S | 07-02-18 00:00 | | 591157-037 |
| T-6 (6') | S | 07-02-18 00:00 | | 591157-038 |
| T-6 (8') | S | 07-02-18 00:00 | | 591157-039 |
| T-7 (0-1') | S | 07-02-18 00:00 | | 591157-040 |
| T-7 (1') | S | 07-02-18 00:00 | | 591157-041 |
| T-7 (2') | S | 07-02-18 00:00 | | 591157-042 |
| T-7 (4') | S | 07-02-18 00:00 | | 591157-043 |
| | | | | |



| T-7 (6') |
|----------------|
| T-7 (8') |
| |
| AH-8 (0-1') |
| AH-8 (1-1.5') |
| AH-8 (2-2.5') |
| AH-8 (3-3.5') |
| AH-9 (0-1') |
| AH-9 (1-1.5') |
| AH-9 (2-2.5') |
| AH-9 (3-3.5') |
| AH-10 (0-1') |
| AH-10 (1-1.5') |
| AH-10 (2-2.5') |
| AH-10 (3-3.5') |
| |

Sample Cross Reference 591157



Tetra Tech- Midland, Midland, TX

Rattle Snake Reuse Pit

| S | 07-02-18 00:00 | 591157-044 |
|---|----------------|------------|
| S | 07-02-18 00:00 | 591157-045 |
| S | 07-02-18 00:00 | 591157-046 |
| S | 07-02-18 00:00 | 591157-047 |
| S | 07-02-18 00:00 | 591157-048 |
| S | 07-02-18 00:00 | 591157-049 |
| S | 07-02-18 00:00 | 591157-050 |
| S | 07-02-18 00:00 | 591157-051 |
| S | 07-02-18 00:00 | 591157-052 |
| S | 07-02-18 00:00 | 591157-053 |
| S | 07-02-18 00:00 | 591157-054 |
| S | 07-02-18 00:00 | 591157-055 |
| S | 07-02-18 00:00 | 591157-056 |
| S | 07-02-18 00:00 | 591157-057 |
| | | |



CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Rattle Snake Reuse Pit

Project ID: 212C-MD-01300 Work Order Number(s): 591157 Report Date: 10-JUL-18 Date Received: 07/03/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3055792 Chloride by EPA 300

Lab Sample ID 591157-025 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: 591157-015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034. The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3055798 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3055801 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Lea County, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab: Tue Jul-03-18 09:41 am Report Date: 10-JUL-18 Project Manager: Kelsey Brooks

| | Lab Id: | 591157-(| 001 | 591157-0 | 02 | 591157-0 | 003 | 591157-0 | 004 | 591157-0 | 05 | 591157-0 | 06 |
|-----------------------------------|------------|-------------|-----------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|------|-----------------|-------|
| | Field Id: | T-1 (0-1 | 1') | T-1 (1') |) | T-1 (2' |) | T-1 (4' |) | T-1 (6) | , | T-1 (8) |) |
| Analysis Requested | Depth: | | , , | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-02-18 (| 00:00 | Jul-02-18 0 | 00:00 | Jul-02-18 (| 00:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 00:00 |
| BTEX by EPA 8021B | Extracted: | Jul-08-18 (| Jul-08-18 08:00 | | | | | | | | | | |
| | Analyzed: | Jul-08-18 | 14:58 | | | | | | | | | | |
| | Units/RL: | mg/kg | RL | | | | | | | | | | |
| Benzene | | < 0.00201 | 0.00201 | | | | | | | | | | |
| Toluene | | < 0.00201 | 0.00201 | | | | | | | | | | |
| Ethylbenzene | | < 0.00201 | 0.00201 | | | | | | | | | | |
| m,p-Xylenes | | < 0.00402 | 0.00402 | | | | | | | | | | |
| o-Xylene | | < 0.00201 | 0.00201 | | | | | | | | | | |
| Total Xylenes | | < 0.00201 | 0.00201 | | | | | | | | | | |
| Total BTEX | | < 0.00201 | 0.00201 | | | | | | | | | | |
| Chloride by EPA 300 | Extracted: | Jul-07-18 | 11:30 | Jul-07-18 11:30 | | Jul-07-18 1 | 1:30 | Jul-07-18 1 | 1:30 | Jul-07-18 1 | 1:30 | Jul-07-18 11:30 | |
| | Analyzed: | Jul-07-18 | 13:34 | Jul-07-18 1 | 3:39 | Jul-07-18 13:45 | | Jul-07-18 13:55 | | Jul-07-18 13:50 | | Jul-07-18 14:12 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 5560 | 50.0 | 6460 | 49.6 | 1880 | 25.0 | 14.7 | 4.98 | 138 | 25.0 | 131 | 24.7 |
| TPH by SW8015 Mod | Extracted: | Jul-08-18 | 10:00 | | | | | | | | | | |
| | Analyzed: | Jul-08-18 | 17:31 | | | | | | | | | | |
| | Units/RL: | mg/kg | RL | | | | | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <14.9 14.9 | | | | | | | | | | | |
| Diesel Range Organics (DRO) | | 537 | 537 14.9 | | | | | | | | | | |
| Oil Range Hydrocarbons (ORO) | | <14.9 | <14.9 14.9 | | | | | | | | | | |
| Total TPH | Н | | 14.9 | | | | | | | | | | |

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,

Huns Arah

Kelsey Brooks Project Manager



Lea County, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab: Tue Jul-03-18 09:41 am Report Date: 10-JUL-18 Project Manager: Kelsey Brooks

| | Lab Id: | 591157-0 | 07 | 591157-0 | 008 | 591157-0 | 09 | 591157-0 | 10 | 591157-0 | 11 | 591157-0 |)12 |
|-----------------------------------|------------|-------------|-------|-----------------|--------|-----------------|---------|-----------------|------|-----------------|------|-----------------|-------|
| | Field Id: | T-1 (10 | ') (' | T-1 (12 | .) | T-2 (0-1 | .) | T-2 (1') | | T-2 (2) |) | T-2 (4" |) |
| Analysis Requested | Depth: | , | , | x | , , | x | , | . , | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-02-18 0 | 00:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 00:00 |
| BTEX by EPA 8021B | Extracted: | | | | | Jul-08-18 0 | 8:00 | | | | | | |
| | Analyzed: | | | | | Jul-08-18 1 | 5:16 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Benzene | | | | | | < 0.00201 | 0.00201 | | | | | | |
| Toluene | | | | | | < 0.00201 | 0.00201 | | | | | | |
| Ethylbenzene | | | | | | < 0.00201 | 0.00201 | | | | | | |
| m,p-Xylenes | | | | | | | 0.00402 | | | | | | |
| o-Xylene | | | | | | | 0.00201 | | | | | | |
| Total Xylenes | | | | | | | 0.00201 | | | | | | |
| Total BTEX | | | | | | < 0.00201 | 0.00201 | | | | | | |
| Chloride by EPA 300 | Extracted: | Jul-07-18 1 | 1:30 | Jul-07-18 11:30 | | Jul-07-18 1 | 1:30 | Jul-07-18 1 | 1:30 | Jul-07-18 1 | 1:30 | Jul-07-18 11:30 | |
| | Analyzed: | Jul-07-18 1 | 4:17 | Jul-07-18 1 | 4:33 | Jul-07-18 14:39 | | Jul-07-18 14:44 | | Jul-07-18 14:49 | | Jul-07-18 14:55 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 289 | 24.5 | 418 | 24.9 | 935 | 4.98 | 154 | 4.94 | 4230 | 25.0 | 34.5 | 4.92 |
| TPH by SW8015 Mod | Extracted: | | | | | Jul-08-18 1 | 0:00 | | | | | | |
| | Analyzed: | | | | | Jul-08-18 1 | 7:50 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | | | <15.0 | 15.0 | | | | | | |
| Diesel Range Organics (DRO) | | | | | | 18.6 | 15.0 | | | | | | |
| Oil Range Hydrocarbons (ORO) | | | | | | <15.0 | 15.0 | | | | | | |
| Total TPH | | | | | | 18.6 | 15.0 | | | | | | |

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

Huns Arah

Kelsey Brooks Project Manager



Lea County, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab: Tue Jul-03-18 09:41 am Report Date: 10-JUL-18 Project Manager: Kelsey Brooks

| | Lab Id: | 591157-0 | 13 | 591157-0 | 014 | 591157-0 | 15 | 591157-0 | 16 | 591157-0 | 017 | 591157-0 | 18 |
|-----------------------------------|------------|-------------|------|-----------------|-------|-----------------|---------|-----------------|------|-----------------|-------|-----------------|------|
| (1 · D · J | Field Id: | T-2 (6) |) | T-2 (8) |) | T-3 (0-1 | ') | T-3 (1) |) | T-3 (2' |) | T-3 (4') |) |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | SOIL | | SOIL | | |
| | Sampled: | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 0:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 0:00 |
| BTEX by EPA 8021B | Extracted: | | | | | Jul-08-18 0 | 8:00 | | | | | | |
| | Analyzed: | | | | | Jul-08-18 1 | 5:34 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Benzene | · | | | | | < 0.00199 | 0.00199 | | | | | | |
| Toluene | | | | | | < 0.00199 | 0.00199 | | | | | | |
| Ethylbenzene | | | | | | | 0.00199 | | | | | | |
| m,p-Xylenes | | | | | | | 0.00398 | | | | | | |
| o-Xylene | | | | | | | 0.00199 | | | | | | |
| Total Xylenes | | | | | | | 0.00199 | | | | | | |
| Total BTEX | | | | | | < 0.00199 | 0.00199 | | | | | | |
| Chloride by EPA 300 | Extracted: | Jul-07-18 1 | 1:30 | Jul-07-18 11:30 | | Jul-07-18 1 | 2:00 | Jul-07-18 1 | 2:00 | Jul-07-18 12:00 | | Jul-07-18 12:00 | |
| | Analyzed: | Jul-09-18 1 | 1:49 | Jul-07-18 1 | 5:06 | Jul-07-18 15:54 | | Jul-07-18 16:00 | | Jul-07-18 15:38 | | Jul-07-18 16:05 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 24.5 | 4.99 | 72.4 | 24.6 | 2130 | 24.8 | 2000 | 24.8 | 270 | 4.94 | 33.3 | 4.93 |
| TPH by SW8015 Mod | Extracted: | | | | | Jul-08-18 1 | 0:00 | | | | | | |
| | Analyzed: | | | | | Jul-08-18 1 | 8:09 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | | | <15.0 | 15.0 | | | | | | |
| Diesel Range Organics (DRO) | | | | | | <15.0 | 15.0 | | | | | | |
| Oil Range Hydrocarbons (ORO) | | | | | | <15.0 | 15.0 | | | | | | |
| Total TPH | | | | | | <15.0 | 15.0 | | | | | | |

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Huns Arah

Kelsey Brooks Project Manager



Lea County, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab: Tue Jul-03-18 09:41 am Report Date: 10-JUL-18 Project Manager: Kelsey Brooks

| | Lab Id: | 591157-0 |)19 | 591157-0 | 20 | 591157-0 | 21 | 591157-0 | 022 | 591157-0 | 023 | 591157-0 | 024 |
|-----------------------------------|------------|-------------|-------|-------------|-------|-------------|------|-------------|---------|-------------|-------|-------------|-------|
| A surface Democrate I | Field Id: | T-3 (6' |) | T-3 (8) |) | T-3 (10' |) | T-4 (0- | 1') | T-4 (1' |) | T-4 (2') |) |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | SOIL | | , | SOIL | | SOIL | |
| | Sampled: | Jul-02-18 (| 00:00 | Jul-02-18 0 | 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 | 00:00 | Jul-02-18 0 | 00:00 | Jul-02-18 0 | 00:00 |
| BTEX by EPA 8021B | Extracted: | | | | | | | Jul-08-18 (| 08:00 | | | | |
| | Analyzed: | | | | | | | Jul-08-18 | 15:52 | | | | |
| | 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 | | | | |
| Chloride by EPA 300 | Extracted: | Jul-07-18 1 | 12:00 | Jul-07-18 1 | 2:00 | Jul-07-18 1 | 2:00 | Jul-07-18 | 12:00 | Jul-07-18 1 | 2:00 | Jul-07-18 1 | 2:00 |
| | Analyzed: | Jul-07-18 1 | 16:10 | Jul-07-18 1 | 6:27 | Jul-07-18 1 | 6:32 | Jul-07-18 | 16:37 | Jul-07-18 1 | 6:43 | Jul-07-18 1 | 6:48 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 21.9 | 4.94 | 7.59 | 5.00 | <4.95 | 4.95 | 2700 | 24.9 | 3580 | 24.6 | 3290 | 24.5 |
| TPH by SW8015 Mod | Extracted: | | | | | | | Jul-08-18 | 10:00 | | | | |
| | Analyzed: | | | | | | | Jul-08-18 | 18:29 | | | | |
| | Units/RL: | | | | | | | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | | | | | <15.0 | 15.0 | | | | |
| Diesel Range Organics (DRO) | | | | | | | | 26.5 | 15.0 | | | | |
| Oil Range Hydrocarbons (ORO) | | | | | | | | <15.0 | 15.0 | | | | |
| Total TPH | | | | | | | | 26.5 | 15.0 | | | | |

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Huns Arah

Kelsey Brooks Project Manager



Lea County, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab: Tue Jul-03-18 09:41 am Report Date: 10-JUL-18 Project Manager: Kelsey Brooks

| | Lab Id: | 591157-0 | 025 | 591157-0 | 026 | 591157-0 | 27 | 591157-(| 028 | 591157-0 | 29 | 591157-0 |)30 |
|-----------------------------------|------------|-------------|-------|-----------------|-------|-----------------|-------|-------------|---------|-----------------|-------|-----------------|-------|
| | Field Id: | T-4 (4' |) | T-4 (6' |) | T-4 (8) |) | T-5 (0-1 | l') | T-5 (1) |) | T-5 (2) |) |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-02-18 (| 00:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 00:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 00:00 | Jul-02-18 0 | 00:00 |
| BTEX by EPA 8021B | Extracted: | | 1 | | | | | Jul-08-18 (| 08:00 | | | | |
| | Analyzed: | | | | | | | Jul-08-18 1 | 6:10 | | | | |
| | Units/RL: | | | | | | | mg/kg | RL | | | | |
| Benzene | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Toluene | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Ethylbenzene | | | | | | | | < 0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | | | | | | | < 0.00401 | 0.00401 | | | | |
| o-Xylene | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Total Xylenes | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Total BTEX | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Chloride by EPA 300 | Extracted: | Jul-07-18 1 | 12:00 | Jul-07-18 12:00 | | Jul-07-18 1 | 2:00 | Jul-07-18 1 | 2:00 | Jul-07-18 12:00 | | Jul-07-18 12:00 | |
| | Analyzed: | Jul-07-18 1 | 6:54 | Jul-07-18 1 | 7:10 | Jul-07-18 17:15 | | Jul-07-18 1 | 7:31 | Jul-07-18 1 | 7:37 | Jul-07-18 1 | 7:42 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 195 | 4.92 | 117 | 4.96 | 10.7 | 4.94 | 1770 | 24.6 | 2020 | 25.0 | 146 | 4.90 |
| TPH by SW8015 Mod | Extracted: | | | | | | | Jul-08-18 1 | 0:00 | | | | |
| | Analyzed: | | | | | | | Jul-08-18 1 | 8:48 | | | | |
| | Units/RL: | | | | | | | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | | | | | <15.0 | 15.0 | | | | |
| Diesel Range Organics (DRO) | | | | | | | | 168 | 15.0 | | | | |
| Oil Range Hydrocarbons (ORO) | | | | | | | | <15.0 | 15.0 | | | | |
| Total TPH | | | | | | | | 168 | 15.0 | | | | |

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Kelsey Brooks Project Manager



Lea County, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab: Tue Jul-03-18 09:41 am Report Date: 10-JUL-18 Project Manager: Kelsey Brooks

| | Lab Id: | 591157-0 | 031 | 591157-0 | 032 | 591157-0 | 033 | 591157-(| 034 | 591157-0 | 35 | 591157-0 |)36 |
|-----------------------------------|------------|-------------|-------|-----------------|-------|-----------------|-------|-----------------|---------|-----------------|------|-----------------|-------|
| | Field Id: | T-5 (4) |) | T-5 (6' |) | T-5 (8) |) | T-6 (0- | l') | T-6 (1) |) | T-6 (2) |) |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-02-18 0 | 00:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 00:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 00:00 |
| BTEX by EPA 8021B | Extracted: | | 1 | | | | | Jul-08-18 (| 08:00 | | | | |
| | Analyzed: | | | | | | | Jul-08-18 | 6:28 | | | | |
| | 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 | | | | |
| Chloride by EPA 300 | Extracted: | Jul-07-18 1 | 2:00 | Jul-07-18 12:00 | | Jul-07-18 12:00 | | Jul-07-18 | 2:00 | Jul-09-18 14:00 | | Jul-09-18 14:00 | |
| | Analyzed: | Jul-07-18 1 | 7:48 | Jul-07-18 17:53 | | Jul-07-18 17:58 | | Jul-07-18 18:04 | | Jul-09-18 1 | 8:46 | Jul-09-18 1 | 8:52 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 48.2 | 4.90 | 21.1 | 4.95 | 15.7 | 4.90 | 5290 | 49.9 | 4140 | 25.0 | 1240 | 4.94 |
| TPH by SW8015 Mod | Extracted: | | | | | | | Jul-08-18 | 0:00 | | | | |
| | Analyzed: | | | | | | | Jul-08-18 | 9:07 | | | | |
| | Units/RL: | | | | | | | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | · · | | | | | | | <15.0 | 15.0 | | | | |
| Diesel Range Organics (DRO) | | | | | | | | 404 | 15.0 | | | | |
| Oil Range Hydrocarbons (ORO) | | | | | | | | <15.0 | 15.0 | | | | |
| Total TPH | | | | | | | | 404 | 15.0 | | | | |

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Kelsey Brooks Project Manager



Lea County, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab: Tue Jul-03-18 09:41 am Report Date: 10-JUL-18 Project Manager: Kelsey Brooks

| | Lab Id: | 591157-0 |)37 | 591157-0 |)38 | 591157-0 | 39 | 591157-0 |)40 | 591157-0 | 41 | 591157-0 |)42 |
|-----------------------------------|------------|-------------|-------|-------------|-------|-------------|------|-------------|---------|-------------|------|-------------|-------|
| An aluais De au ested | Field Id: | T-6 (4) |) | T-6 (6' |) | T-6 (8') |) | T-7 (0-1 | l') | T-7 (1) |) | T-7 (2') |) |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-02-18 0 | 00:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 00:00 |
| BTEX by EPA 8021B | Extracted: | | Í | | | | | Jul-08-18 (| 08:30 | | | | |
| | Analyzed: | | | | | | | Jul-08-18 1 | 9:10 | | | | |
| | Units/RL: | | | | | | | mg/kg | RL | | | | |
| Benzene | | | | | | | | < 0.00201 | 0.00201 | | | | |
| Toluene | | | | | | | | < 0.00201 | 0.00201 | | | | |
| Ethylbenzene | | | | | | | | < 0.00201 | 0.00201 | | | | |
| m,p-Xylenes | | | | | | | | < 0.00402 | 0.00402 | | | | |
| o-Xylene | | | | | | | | < 0.00201 | 0.00201 | | | | |
| Total Xylenes | | | | | | | | < 0.00201 | 0.00201 | | | | |
| Total BTEX | | | | | | | | < 0.00201 | 0.00201 | | | | |
| Chloride by EPA 300 | Extracted: | Jul-09-18 1 | 4:00 | Jul-09-18 1 | 4:00 | Jul-09-18 1 | 4:00 | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 |
| | Analyzed: | Jul-09-18 1 | 18:57 | Jul-09-18 1 | 9:03 | Jul-09-18 1 | 9:08 | Jul-09-18 1 | 9:57 | Jul-09-18 2 | 0:02 | Jul-09-18 2 | 0:07 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 8.37 | 4.92 | 1010 | 4.98 | 11.5 | 5.00 | 4850 | 49.2 | 5060 | 49.6 | 3490 | 24.8 |
| TPH by SW8015 Mod | Extracted: | | | | | | | Jul-08-18 1 | 0:00 | | | | |
| | Analyzed: | | | | | | | Jul-08-18 1 | 9:27 | | | | |
| | Units/RL: | | | | | | | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | | | | | <15.0 | 15.0 | | | | |
| Diesel Range Organics (DRO) | | | | | | | | 538 | 15.0 | | | | |
| Oil Range Hydrocarbons (ORO) | | | | | | | | <15.0 | 15.0 | | | | |
| Total TPH | | | | | | | | 538 | 15.0 | | | | |

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Kelsey Brooks Project Manager



Lea County, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab: Tue Jul-03-18 09:41 am Report Date: 10-JUL-18 Project Manager: Kelsey Brooks

| | Lab Id: | 591157-0 | 43 | 591157-0 |)44 | 591157-0 | 045 | 591157-0 | 46 | 591157-0 | 47 | 591157-0 | 48 |
|-----------------------------------|------------|-------------|-------|-------------|-------|-------------|-------|-------------|---------|-------------|------|-------------|------|
| | Field Id: | T-7 (4) |) | T-7 (6) |) | T-7 (8) |) | AH-8 (0- | 1') | AH-8 (1-1 | .5') | AH-8 (2-2 | .5') |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-02-18 0 | 00:00 | Jul-02-18 0 | 00:00 | Jul-02-18 0 | 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 0:00 |
| BTEX by EPA 8021B | Extracted: | | | | | | | Jul-08-18 0 | 8:30 | | - | | |
| | Analyzed: | | | | | | | Jul-08-18 1 | 9:28 | | | | |
| | Units/RL: | | | | | | | mg/kg | RL | | | | |
| Benzene | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Toluene | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Ethylbenzene | | | | | | | | < 0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | | | | | | | < 0.00401 | 0.00401 | | | | |
| o-Xylene | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Total Xylenes | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Total BTEX | | | | | | | | < 0.00200 | 0.00200 | | | | |
| Chloride by EPA 300 | Extracted: | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 |
| | Analyzed: | Jul-09-18 1 | 9:40 | Jul-09-18 2 | 20:13 | Jul-09-18 2 | 0:29 | Jul-09-18 2 | 0:34 | Jul-09-18 2 | 0:40 | Jul-09-18 2 | 0:45 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 219 | 4.94 | 54.1 | 4.91 | 427 | 4.90 | 4070 | 24.9 | 4590 | 50.0 | 5470 | 49.1 |
| TPH by SW8015 Mod | Extracted: | | | | | | | Jul-08-18 1 | 0:00 | | | | |
| | Analyzed: | | | | | | | Jul-08-18 1 | 9:46 | | | | |
| | Units/RL: | | | | | | | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | | | | | <15.0 | 15.0 | | | | |
| Diesel Range Organics (DRO) | | | | | | | | 653 | 15.0 | | | | |
| Oil Range Hydrocarbons (ORO) | | | | | | | | <15.0 | 15.0 | | | | |
| Total TPH | | | | | | | | 653 | 15.0 | | | | |

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Huns Arah

Kelsey Brooks Project Manager



Lea County, NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab: Tue Jul-03-18 09:41 am Report Date: 10-JUL-18 Project Manager: Kelsey Brooks

| | Lab Id: | 591157-0 | 49 | 591157-0 | 50 | 591157-0 | 51 | 591157-(|)52 | 591157-0 | 53 | 591157- | 054 |
|-----------------------------------|------------|-------------|-------|-------------|---------|-------------|------|-------------|-------|-------------|------|-----------|---------|
| A ser lessie Deserved a l | Field Id: | AH-8 (3-3 | 3.5') | AH-9 (0- | 1') | AH-9 (1-1 | .5') | AH-9 (2-2 | 2.5') | AH-9 (3-3 | .5') | AH-10 ((| 0-1') |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | - |
| | Sampled: | Jul-02-18 0 | 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 0:00 | Jul-02-18 (| 00:00 | Jul-02-18 0 | 0:00 | Jul-02-18 | 00:00 |
| BTEX by EPA 8021B | Extracted: | | | Jul-08-18 0 | 8:30 | | | | | | | Jul-08-18 | 08:30 |
| | Analyzed: | | | Jul-08-18 2 | 0:22 | | | | | | | Jul-08-18 | 19:46 |
| | Units/RL: | | | mg/kg | RL | | | | | | | mg/kg | RL |
| Benzene | | | | < 0.00200 | 0.00200 | | | | | | | < 0.00199 | 0.00199 |
| Toluene | | | | < 0.00200 | 0.00200 | | | | | | | < 0.00199 | 0.00199 |
| Ethylbenzene | | | | 0.00746 | 0.00200 | | | | | | | 0.00346 | 0.00199 |
| m,p-Xylenes | | | | 0.0808 | 0.00399 | | | | | | | 0.0603 | 0.00398 |
| o-Xylene | | | | 0.0113 | 0.00200 | | | | | | | 0.00713 | 0.00199 |
| Total Xylenes | | | | 0.0921 | 0.00200 | | | | | | | 0.0674 | 0.00199 |
| Total BTEX | | | | 0.0996 | 0.00200 | | | | | | | 0.0709 | 0.00199 |
| Chloride by EPA 300 | Extracted: | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 | Jul-09-18 | 15:30 |
| | Analyzed: | Jul-09-18 2 | 20:51 | Jul-09-18 2 | 1:18 | Jul-09-18 2 | 1:34 | Jul-09-18 2 | 1:39 | Jul-09-18 2 | 1:45 | Jul-09-18 | 21:50 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 1540 | 24.9 | 3140 | 25.0 | 4400 | 49.5 | 7250 | 49.8 | 4960 | 49.6 | 3340 | 24.9 |
| TPH by SW8015 Mod | Extracted: | | | Jul-08-18 1 | 0:00 | | | | | | | Jul-07-18 | 11:00 |
| | Analyzed: | | | Jul-08-18 2 | 0:06 | | | | | | | Jul-08-18 | 09:09 |
| | Units/RL: | | | mg/kg | RL | | | | | | | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | | | 224 | 74.9 | | | | | | | 104 | 74.9 |
| Diesel Range Organics (DRO) | | | | 13000 | 74.9 | | | | | | | 8530 | 74.9 |
| Oil Range Hydrocarbons (ORO) | | | | 89.8 | 74.9 | | | | | | | 147 | 74.9 |
| Total TPH | | | | 13300 | 74.9 | | | | | | | 8780 | 74.9 |

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Huns Arah

Kelsey Brooks Project Manager



Lea County, NM

Contact:

Project Location:

Certificate of Analysis Summary 591157

Tetra Tech- Midland, Midland, TX Project Name: Rattle Snake Reuse Pit



Date Received in Lab:Tue Jul-03-18 09:41 amReport Date:10-JUL-18Project Manager:Kelsey Brooks

| | Lab Id: | 591157-0 | 55 | 591157-0 | 56 | 591157-0 | 57 | | |
|---------------------|------------|-------------|-------|-------------|-------|-------------|-------|--|--|
| Analysis Requested | Field Id: | AH-10 (1-1 | 1.5') | AH-10 (2-2 | 2.5') | AH-10 (3-3 | 3.5') | | |
| Analysis Requested | Depth: | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | | |
| | Sampled: | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 0:00 | Jul-02-18 0 | 0:00 | | |
| Chloride by EPA 300 | Extracted: | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 | Jul-09-18 1 | 5:30 | | |
| | Analyzed: | Jul-09-18 2 | 1:55 | Jul-09-18 2 | 2:01 | Jul-09-18 2 | 2:06 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Chloride | | 4850 | 49.0 | 6140 | 49.9 | 4000 | 24.9 | | |

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.

Huns Arah

Kelsey Brooks 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.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

| SMP Clie | ent Sample | BLK | Method Blank | |
|----------|---|-----------|-----------------------------|---------------------------------|
| BKS/LCS | S Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labor | ratory 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



Project Name: Rattle Snake Reuse Pit

| Units: | mg/kg | Date Analyzed: 07/08/18 09:09 | | | ECOVEDY | | | | | |
|----------------------|-----------|-------------------------------|------------------------|-----------------------|-----------------------|-------------------------|----------|--|--|--|
| Units: | mg/kg | Date Analyzed: 07/08/18 09.09 | SU | RROGATE R | RECOVERY STUDY | | | | | |
| | TPH h | y SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| | | Analytes | | | [D] | | | | | |
| 1-Chlorooctan | ie | | 103 | 99.8 | 103 | 70-135 | | | | |
| o-Terphenyl | | | 64.4 | 49.9 | 129 | 70-135 | | | | |
| Lab Batch #: | : 3055798 | Sample: 591157-001 / SMP | Batcl | h: 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 14:58 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | | L by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1.4-Difluorobe | | | 0.0280 | 0.0300 | 93 | 70-130 | | | | |
| 4-Bromofluor | | | 0.0276 | 0.0300 | 92 | 70-130 | | | | |
| Lab Batch #: | | Sample: 591157-009 / SMP | Batcl | | | 10 100 | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 15:16 | | RROGATE R | | STUDY | | | | |
| | BTEX | C by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| | | Analytes | | | [D] | | | | | |
| 1,4-Difluorobe | enzene | | 0.0337 | 0.0300 | 112 | 70-130 | | | | |
| 4-Bromofluor | obenzene | | 0.0252 | 0.0300 | 84 | 70-130 | | | | |
| Lab Batch #: | : 3055798 | Sample: 591157-015 / SMP | Batc | h: 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 15:34 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | | L by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1,4-Difluorobe | | | 0.0379 | 0.0300 | 126 | 70-130 | | | | |
| 4-Bromofluor | obenzene | | 0.0262 | 0.0300 | 87 | 70-130 | | | | |
| Lab Batch #: | : 3055798 | Sample: 591157-022 / SMP | Batcl | h: 1 Matrix | : Soil | 1 | <u> </u> | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 15:52 | SU | RROGATE R | ECOVERY | STUDY | | | | |
| | BTEX | t by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| | | Analytes | | | [D] | | | | | |
| 1,4-Difluorobe | enzene | | 0.0213 | 0.0300 | 71 | 70-130 | | | | |
| 4-Bromofluorobenzene | | | 0.0249 | 0.0300 | 83 | 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



Project Name: Rattle Snake Reuse Pit

| Work Ord Lab Batch #: | ers: 59115 3055798 | 7, Sample: 591157-028 / SMP | | | | | | | | |
|--------------------------|-----------------------|--------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|
| Units: | mg/kg | Date Analyzed: 07/08/18 16:10 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| | | Analytes | | | [D] | | | | | |
| 1,4-Difluorobe | enzene | | 0.0357 | 0.0300 | 119 | 70-130 | | | | |
| 4-Bromofluor | obenzene | | 0.0245 | 0.0300 | 82 | 70-130 | | | | |
| Lab Batch #: | 3055798 | Sample: 591157-034 / SMP | Batcl | h: 1 Matrix | : Soil | | | | | |
| U nits: | mg/kg | Date Analyzed: 07/08/18 16:28 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | втех | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| | | Analytes | | | | | | | | |
| 1,4-Difluorobe | | | 0.0297 | 0.0300 | 99 | 70-130 | | | | |
| 4-Bromofluor | | | 0.0251 | 0.0300 | 84 | 70-130 | | | | |
| Lab Batch #: | | Sample: 591157-001 / SMP | Batcl | h: 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 17:31 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | TPH | by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| | | Analytes | | | [D] | | | | | |
| 1-Chlorooctan | e | | 98.2 | 99.6 | 99 | 70-135 | | | | |
| o-Terphenyl | | | 56.9 | 49.8 | 114 | 70-135 | | | | |
| Lab Batch #: | 3055931 | Sample: 591157-009 / SMP | Batcl | h: 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 17:50 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | TPH | by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1-Chlorooctan | e | | 98.3 | 99.9 | 98 | 70-135 | | | | |
| o-Terphenyl | | | 51.0 | 50.0 | 102 | 70-135 | | | | |
| Lab Batch #: | 3055931 | Sample: 591157-015 / SMP | Batcl | | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 18:09 | | RROGATE R | | STUDY | | | | |
| | TPH | by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1 Chlorecot- | 0 | Analytes | 101 | 100 | | 70.125 | | | | |
| 1-Chlorooctan | e | | 101 | 100 | 101 | 70-135 | | | | |
| o-Terphenyl | | | 51.8 | 50.0 | 104 | 70-135 | | | | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Rattle Snake Reuse Pit

| Lab Batch #: | | Sample: 591157-022 / SMP | Batc | h: 1 Matrix | . 501 | | | |
|----------------|---------|--------------------------------------|--------------------------|-----------------------|-----------------------|-------------------------|-------|--|
| Units: | mg/kg | Date Analyzed: 07/08/18 18:29 | SU | JRROGATE R | ECOVERY S | STUDY | | |
| | TPH b | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage | |
| | | Analytes | | | [D] | | | |
| 1-Chlorooctane | ; | | 95.4 | 100 | 95 | 70-135 | | |
| o-Terphenyl | | | 50.3 | 50.0 | 101 | 70-135 | | |
| Lab Batch #: | 3055931 | Sample: 591157-028 / SMP | Batc | h: 1 Matrix | : Soil | <u> </u> | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 18:48 | SU | JRROGATE R | ECOVERY S | STUDY | | |
| | | oy SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | |
| 1-Chlorooctane | | Anaryus | 93.6 | 99.7 | 94 | 70-135 | | |
| o-Terphenyl | | | 53.3 | 49.9 | 107 | 70-135 | | |
| Lab Batch #: | 3055931 | Sample: 591157-034 / SMP | Batc | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 19:07 | SURROGATE RECOVERY STUDY | | | | | |
| | | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | |
| | | Analytes | | | [D] | | | |
| 1-Chlorooctane | • | | 96.9 | 99.7 | 97 | 70-135 | | |
| o-Terphenyl | | | 55.1 | 49.9 | 110 | 70-135 | | |
| Lab Batch #: | | Sample: 591157-040 / SMP | Batc | h: 1 Matrix | : Soil | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 19:10 | SU | JRROGATE R | ECOVERY S | STUDY | | |
| | | Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | |
| 1,4-Difluorobe | | Analytes | 0.0388 | 0.0300 | 129 | 70-130 | | |
| 4-Bromofluoro | | | 0.0269 | 0.0300 | 90 | 70-130 | | |
| Lab Batch #: | | Sample: 591157-040 / SMP | Batc | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 19:27 | | JRROGATE R | | STUDY | | |
| | | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flag | |
| | | Analytes | | | [D] | | | |
| 1-Chlorooctane | | | 107 | 99.9 | 107 | 70-135 | | |
| o-Terphenyl | | | 61.1 | 50.0 | 122 | 70-135 | | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Rattle Snake Reuse Pit

| | | Sample: 591157-046 / SMP | | ch: 1 Matrix | | | | | | | |
|------------------|---------|-------------------------------|--------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|--|
| Units: r | ng/kg | Date Analyzed: 07/08/18 19:28 | SURROGATE RECOVERY STUDY | | | | | | | | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage | | | | |
| | | Analytes | | | [D] | | | | | | |
| 1,4-Difluorobenz | zene | | 0.0314 | 0.0300 | 105 | 70-130 | | | | | |
| 4-Bromofluorobe | enzene | | 0.0260 | 0.0300 | 87 | 70-130 | | | | | |
| Lab Batch #: 3 | 3055931 | Sample: 591157-046 / SMP | Batc | ch: 1 Matrix | : Soil | | | | | | |
| Units: r | ng/kg | Date Analyzed: 07/08/18 19:46 | SU | URROGATE R | ECOVERY S | STUDY | | | | | |
| | | oy SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooctane | | | 97.8 | 99.8 | 98 | 70-135 | | | | | |
| o-Terphenyl | | | 58.3 | 49.9 | 117 | 70-135 | | | | | |
| Lab Batch #: 3 | 3055801 | Sample: 591157-054 / SMP | Batc | h: 1 Matrix | : Soil | | | | | | |
| Units: r | ng/kg | Date Analyzed: 07/08/18 19:46 | su | JRROGATE R | ECOVERY | STUDY | | | | | |
| | BTEX | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage | | | | |
| | | Analytes | | | [D] | | | | | | |
| 1,4-Difluorobenz | zene | | 0.0213 | 0.0300 | 71 | 70-130 | | | | | |
| 4-Bromofluorobe | enzene | | 0.0272 | 0.0300 | 91 | 70-130 | | | | | |
| Lab Batch #: 3 | 3055931 | Sample: 591157-050 / SMP | Batc | ch: 1 Matrix | : Soil | | | | | | |
| Units: r | ng/kg | Date Analyzed: 07/08/18 20:06 | SU | URROGATE R | ECOVERY S | STUDY | | | | | |
| | | oy SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooctane | | | 106 | 99.8 | 106 | 70-135 | | | | | |
| o-Terphenyl | | | 49.4 | 49.9 | 99 | 70-135 | | | | | |
| Lab Batch #: 3 | 3055801 | Sample: 591157-050 / SMP | Batc | h: 1 Matrix | : Soil | | | | | | |
| Units: r | ng/kg | Date Analyzed: 07/08/18 20:22 | SU | JRROGATE R | ECOVERY S | STUDY | | | | | |
| | | by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flag | | | | |
| 4 4 75 10 1 | | Analytes | | | | | | | | | |
| 1,4-Difluorobenz | | | 0.0320 | 0.0300 | 107 | 70-130 | | | | | |
| 4-Bromofluorobe | enzene | | 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



Project Name: Rattle Snake Reuse Pit

| | #: 3055923 | Sample: 7658082-1-BLK / 1 | | | : Solid | | |
|--------------|------------|-------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 07/07/18 19:02 | SU | RROGATE R | ECOVERY S | STUDY | |
| | TPH b | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1-Chlorooct | ane | | 99.8 | 100 | 100 | 70-135 | |
| o-Terpheny | | | 53.9 | 50.0 | 108 | 70-135 | |
| Lab Batch | #: 3055798 | Sample: 7658000-1-BLK / 1 | BLK Bate | h: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 09:51 | SU | RROGATE R | ECOVERY S | STUDY | |
| | | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | | Anarytes | 0.0322 | 0.0300 | 107 | 70-130 | |
| 4-Bromoflu | | | 0.0322 | 0.0300 | 73 | 70-130 | |
| | #: 3055931 | Sample: 7658088-1-BLK / 1 | | | : Solid | 70-130 | |
| Units: | mg/kg | Date Analyzed: 07/08/18 11:36 | | | | | |
| Omits. | iiig/Kg | Date Analyzet. 07/00/10 11:50 | SU | RROGATE R | ECOVERY S | STUDY | |
| | TPH b | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage |
| | | Analytes | | | [D] | | |
| 1-Chlorooct | ane | | 97.6 | 100 | 98 | 70-135 | |
| o-Terpheny | | | 52.4 | 50.0 | 105 | 70-135 | |
| Lab Batch | #: 3055801 | Sample: 7658002-1-BLK / 1 | BLK Bate | h: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 18:35 | SU | RROGATE R | ECOVERY S | STUDY | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage |
| | | Analytes | | | [D] | | |
| 1,4-Difluoro | benzene | | 0.0366 | 0.0300 | 122 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0337 | 0.0300 | 112 | 70-130 | |
| Lab Batch | #: 3055923 | Sample: 7658082-1-BKS / 1 | BKS Bate | h: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 07/07/18 19:22 | SU | RROGATE R | ECOVERY S | STUDY | |
| | | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage |
| | | Analytes | | | [D] | | |
| 1-Chlorooct | ane | | 119 | 100 | 119 | 70-135 | |
| o-Terpheny | | | 57.7 | 50.0 | 115 | 70-135 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Rattle Snake Reuse Pit

| Units: | mg/kg | Date Analyzed: 07/08/18 08:22 | CT | RROGATE R | ECOVERV | STUDV | |
|---------------------------------------|------------|-------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| | | by EPA 8021B | Amount Found | True Amount | Recovery | Control Limits | Flags |
| | | Analytes | [A] | [B] | %R [D] | %R | |
| 1,4-Difluoro | benzene | | 0.0272 | 0.0300 | 91 | 70-130 | |
| 4-Bromofluc | orobenzene | | 0.0256 | 0.0300 | 85 | 70-130 | |
| Lab Batch # | #: 3055931 | Sample: 7658088-1-BKS / 1 | BKS Bate | h: 1 Matrix | : Solid | 1 | |
| Units: | mg/kg | Date Analyzed: 07/08/18 11:56 | SU | RROGATE R | ECOVERY | STUDY | |
| | | by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chloroocta | | Analytes | 122 | 100 | 122 | 70-135 | |
| o-Terphenyl | | | 55.4 | 50.0 | 111 | 70-135 | |
| Lab Batch | #: 3055801 | Sample: 7658002-1-BKS / 1 | | | | 70-155 | |
| Units: | mg/kg | Date Analyzed: 07/08/18 17:04 | | URROGATE R | - | STUDY | |
| | BTEX | by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | [A] | [0] | [D] | 701 | |
| 1,4-Difluoro | benzene | | 0.0269 | 0.0300 | 90 | 70-130 | |
| 4-Bromofluc | orobenzene | | 0.0227 | 0.0300 | 76 | 70-130 | |
| Lab Batch # | #: 3055923 | Sample: 7658082-1-BSD / 1 | BSD Bate | h: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 07/07/18 19:41 | SU | RROGATE R | ECOVERY S | STUDY | |
| | | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1 Chlansset | | Analytes | 100 | 100 | | 70.105 | |
| 1-Chloroocta | ane | | 122 | 100 | 122 | 70-135 | |
| o-Terphenyl Lab Batch i | #• 3055708 | Sample: 7658000-1-BSD / 1 | 56.2 BSD Bate | 50.0 h: 1 Matrix | 112 :: Solid | 70-135 | |
| Lab Batch 7 Units: | mg/kg | Date Analyzed: 07/08/18 08:40 | | | | | |
| omis. | mg/kg | Date Analyzeu: 07/06/18 08.40 | SU | URROGATE R | ECOVERY S | STUDY | |
| | BTEX | by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluoro | benzene | | 0.0279 | 0.0300 | 93 | 70-130 | |
| 4-Bromofluorobenzene | | | 0.0247 | 0.0300 | 82 | 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



Project Name: Rattle Snake Reuse Pit

| Units: | mg/kg | Date Analyzed: 07/08/18 12:15 | CT. | RROGATE R | FCOVEDV | TUDV | | | | |
|---------------|-----------|----------------------------------|--------------------------|-----------------------|-----------------------|---------------------------------------|-------|--|--|--|
| c must | ing kg | Duce 111111 2011 01/100/10 12:10 | 50 | KKUGAIE N | | | | | | |
| | TPH b | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage | | | |
| | | Analytes | | | [D] | | | | | |
| 1-Chlorooctar | ne | | 118 | 100 | 118 | 70-135 | | | | |
| o-Terphenyl | | | 53.8 | 50.0 | 108 | 70-135 | | | | |
| Lab Batch # | : 3055801 | Sample: 7658002-1-BSD / B | SD Bate | h: 1 Matrix | : Solid | · · · · · · · · · · · · · · · · · · · | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 17:22 | SURROGATE RECOVERY STUDY | | | | | | | |
| | | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| | | Analytes | | | | | | | | |
| 1,4-Difluorob | | | 0.0255 | 0.0300 | 85 | 70-130 | | | | |
| 4-Bromofluor | | | 0.0264 | 0.0300 | 88 | 70-130 | | | | |
| Lab Batch # | | Sample: 591024-001 S / MS | Batc | h: 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/07/18 20:20 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | TPH b | by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage | | | |
| | | Analytes | | | [D] | | | | | |
| 1-Chlorooctar | ne | | 118 | 99.7 | 118 | 70-135 | | | | |
| o-Terphenyl | | | 48.7 | 49.9 | 98 | 70-135 | | | | |
| Lab Batch # | : 3055798 | Sample: 591031-011 S / MS | Batc | h: 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 08:58 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | BTEX | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage | | | |
| | | Analytes | | | [D] | | | | | |
| 1,4-Difluorob | enzene | | 0.0308 | 0.0300 | 103 | 70-130 | | | | |
| 4-Bromofluor | obenzene | | 0.0271 | 0.0300 | 90 | 70-130 | | | | |
| Lab Batch # | : 3055931 | Sample: 591031-001 S / MS | Batc | h: 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 12:55 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | TPH b | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flag | | | |
| | | Analytes | <u>[]</u> | [2] | [D] | , or | | | | |
| 1-Chlorooctar | ne | | 118 | 99.9 | 118 | 70-135 | | | | |
| o-Terphenyl | | | 53.4 | 50.0 | 107 | 70-135 | | | | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Rattle Snake Reuse Pit

| | rders : 59115 #: 3055801 | 7, Sample: 591178-001 S / MS | S Batel | | : 212C-MD-0 |)1300 | |
|-------------|-----------------------------|--------------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 07/08/18 17:40 | SU | RROGATE R | ECOVERY | STUDY | |
| | | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluor | obenzene | | 0.0367 | 0.0300 | 122 | 70-130 | |
| 4-Bromoflu | iorobenzene | | 0.0265 | 0.0300 | 88 | 70-130 | |
| Lab Batch | #: 3055923 | Sample: 591024-001 SD / M | ASD Batcl | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 07/07/18 20:40 | SU | RROGATE R | ECOVERY | STUDY | |
| | | oy SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1 Chlanses | | Analytes | 114 | 00.0 | | 70.105 | |
| 1-Chlorooc | | | 116 | 99.9 | 116 | 70-135 | |
| o-Terpheny | | | 48.9 | 50.0 | 98 | 70-135 | |
| | #: 3055798 | Sample: 591031-011 SD / M | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 09:16 | SU | RROGATE R | ECOVERY S | STUDY | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluor | obenzene | | 0.0378 | 0.0300 | 126 | 70-130 | |
| 4-Bromoflu | iorobenzene | | 0.0313 | 0.0300 | 104 | 70-130 | |
| Lab Batch | #: 3055931 | Sample: 591031-001 SD / N | ASD Batc | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 13:15 | SU | RROGATE R | ECOVERY S | STUDY | |
| | | oy SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooc | | | 118 | 99.9 | 118 | 70-135 | |
| o-Terpheny | | | 51.1 | 50.0 | 102 | 70-135 | |
| | #: 3055801 | Sample: 591178-001 SD / N | | | | | |
| Units: | mg/kg | Date Analyzed: 07/08/18 17:58 | | RROGATE R | | STUDY | |
| | | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluor | obenzene | | 0.0269 | 0.0300 | 90 | 70-130 | |
| 4-Bromoflu | iorobenzene | | 0.0232 | 0.0300 | 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



BS / BSD Recoveries



Project Name: Rattle Snake Reuse Pit

| Work Order | #: 591157 | | | | | | | Proj | ect ID: | 212C-MD-(| 01300 | |
|---------------|-----------------------------|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|------------|-------------------------|---------------------------|------|
| Analyst: | ALJ | D | ate Prepar | red: 07/08/202 | 18 | | | Date A | nalyzed: (| 07/08/2018 | | |
| Lab Batch ID: | : 3055798 Sample: 7658000-1 | -BKS | Bate | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: | mg/kg | | BLAN | K /BLANK | SPIKE / 1 | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | ЭY | |
| Analy | BTEX by EPA 8021B | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Benzene | | < 0.00200 | 0.100 | 0.104 | 104 | 0.101 | 0.0859 | 85 | 19 | 70-130 | 35 | |
| Toluene | | < 0.00200 | 0.100 | 0.107 | 107 | 0.101 | 0.0893 | 88 | 18 | 70-130 | 35 | |
| Ethylbenzo | ene | < 0.00200 | 0.100 | 0.108 | 108 | 0.101 | 0.0885 | 88 | 20 | 70-130 | 35 | |
| m,p-Xylen | ies | < 0.00401 | 0.200 | 0.221 | 111 | 0.201 | 0.181 | 90 | 20 | 70-130 | 35 | |
| o-Xylene | | < 0.00200 | 0.100 | 0.104 | 104 | 0.101 | 0.0863 | 85 | 19 | 70-130 | 35 | |
| Analyst: | ALJ | D | ate Prepar | ed: 07/08/202 | 18 | | | Date A | nalyzed: (| 07/08/2018 | | |
| Lab Batch ID: | : 3055801 Sample: 7658002-1 | -BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: | mg/kg | | BLAN | K/BLANK | SPIKE / 1 | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | DY | |
| Analy | BTEX by EPA 8021B | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Benzene | | < 0.00200 | 0.100 | 0.0837 | 84 | 0.101 | 0.0829 | 82 | 1 | 70-130 | 35 | |
| Toluene | | < 0.00200 | 0.100 | 0.0837 | 84 | 0.101 | 0.0837 | 83 | 0 | 70-130 | 35 | |
| Ethylbenzo | ene | < 0.00200 | 0.100 | 0.0839 | 84 | 0.101 | 0.0822 | 81 | 2 | 70-130 | 35 | |
| m,p-Xylen | ies | < 0.00401 | 0.200 | 0.173 | 87 | 0.201 | 0.171 | 85 | 1 | 70-130 | 35 | |
| o-Xylene | | < 0.00200 | 0.100 | 0.0809 | 81 | 0.101 | 0.0847 | 84 | 5 | 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: Rattle Snake Reuse Pit

| Work Order | :#: 591157 | | | | | | | Pro | ject ID: | 212C-MD-(| 01300 | |
|---------------------------------------|--|-------------------------------|---|---|--|----------------------------|---|-----------------------------------|-----------------------------------|---|---------------------------|------|
| Analyst: | SCM | D | ate Prepar | red: 07/07/201 | 8 | | | Date A | nalyzed: (| 07/07/2018 | | |
| Lab Batch ID | : 3055789 Sample: 7657954-1- | BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: | mg/kg | | BLAN | K /BLANK S | SPIKE / I | BLANK S | SPIKE DUP | LICATE | RECOV | ERY STUD | ΟY | |
| Analy | Chloride by EPA 300 | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Chloride | | <5.00 | 250 | 250 | 100 | 250 | 252 | 101 | 1 | 90-110 | 20 | |
| Analyst: | SCM | D | ate Prepar | ed: 07/07/201 | .8 | | · | Date A | nalyzed: (| 7/07/2018 | | |
| Lab Batch ID | : 3055792 Sample: 7657955-1- | BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: | mg/kg | | BLAN | K/BLANK S | SPIKE / I | BLANK S | SPIKE DUP | LICATE | RECOV | ERY STUE | ΟY | |
| | | | | | | | | | | | | |
| Analy | Chloride by EPA 300 | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analy | | Sample Result | Added | Spike Result | Spike %R | Added | Spike Duplicate | Dup. %R | | Limits | Limits | Flag |
| | | Sample Result [A] <5.00 | Added [B] 250 | Spike Result [C] | Spike %R [D] 100 | Added [E] | Spike Duplicate Result [F] | Dup. %R [G] 99 | % 0 | Limits %R | Limits %RPD | Flag |
| Chloride | v tes | Sample Result [A] <5.00 D | Added [B] 250 ate Prepar | Spike Result [C] 249 | Spike %R [D] 100 | Added [E] | Spike Duplicate Result [F] | Dup. %R [G] 99 | % 0 | Limits %R 90-110 07/09/2018 | Limits %RPD | Flag |
| Chloride Analyst: | v tes | Sample Result [A] <5.00 D | Added [B] 250 ate Prepar Batc | Spike Result [C] 249 red: 07/09/201 | Spike % R [D] 100 8 | Added [E] 250 | Spike Duplicate Result [F] 248 | Dup. %R [G] 99 Date A | % 0 nalyzed: (Matrix: S | Limits %R 90-110 07/09/2018 Solid | Limits %RPD 20 | Flag |
| Chloride Analyst: Lab Batch ID: | SCM Sample: 7658034-1- mg/kg Chloride by EPA 300 | Sample Result [A] <5.00 D | Added [B] 250 ate Prepar Batc | Spike Result [C] 249 red: 07/09/201 h #: 1 | Spike % R [D] 100 8 | Added [E] 250 | Spike Duplicate Result [F] 248 | Dup. %R [G] 99 Date A | % 0 nalyzed: (Matrix: S | Limits %R 90-110 07/09/2018 Solid | Limits %RPD 20 | Flag |

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: Rattle Snake Reuse Pit

| Work Order | :#: 591157 | | | | | | | Proj | ject ID: | 212C-MD- | 01300 | |
|---------------------|--|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|------------|---|---------------------------|------|
| Analyst: | SCM | D | ate Prepar | ed: 07/09/20 | 18 | | | Date A | nalyzed: | 07/09/2018 | | |
| Lab Batch ID | : 3055866 Sample: 7658035- | I-BKS | Batcl | h #: 1 | | | | | Matrix: | Solid | | |
| Units: | mg/kg | | BLAN | K /BLANK | SPIKE /] | BLANK S | SPIKE DUP | LICATE | RECOV | ERY STUI | DY | |
| Analy | Chloride by EPA 300 | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Chloride | | <4.99 | 250 | 270 | 108 | 250 | 264 | 106 | 2 | 90-110 | 20 | |
| Analyst: | ARM | D | ate Prepar | ed: 07/07/20 | 18 | ļ | 1 | Date A | nalyzed: (| 07/07/2018 | 1 | 1 |
| Lab Batch ID | : 3055923 Sample: 7658082- | | Batcl | | | | | | Matrix: | Solid | | |
| Units: | mg/kg | | BLAN | K /BLANK | SPIKE /] | BLANK | SPIKE DUP | LICATE | RECOV | ERY STU | DY | |
| | TPH by SW8015 Mod | Blank Sample Result [A] | Spike Added | Blank Spike Result | Blank Spike %R | Spike Added | Blank Spike Duplicate | Blk. Spk Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analy | vtes | | [B] | [C] | [D] | [E] | Result [F] | [G] | | | | |
| Gasoline I | Range Hydrocarbons (GRO) | <15.0 | 1000 | 1000 | 100 | 1000 | 991 | 99 | 1 | 70-135 | 20 | |
| Diesel Rat | nge Organics (DRO) | <15.0 | 1000 | 1050 | 105 | 1000 | 1030 | 103 | 2 | 70-135 | 20 | |
| Analyst: | ARM | D | ate Prepar | ed: 07/08/20 | 18 | 1 | | Date A | nalyzed: | 07/08/2018 | 1 | |
| Lab Batch ID | : 3055931 Sample: 7658088- | I-BKS | Batcl | h #: 1 | | | | | Matrix: | Solid | | |
| Units: | mg/kg | | BLAN | K /BLANK | SPIKE /] | BLANK | SPIKE DUP | LICATE | RECOV | ERY STU | DY | |
| | TPH by SW8015 Mod | Blank Sample Result | Spike Added | Blank Spike | Blank Spike %R | Spike Added | Blank Spike Duplicate | Blk. Spk Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analy | /tes | [A] | [B] | Result [C] | 5%K [D] | [E] | Result [F] | [G] | 70 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| Analy Gasoline I | r tes Range Hydrocarbons (GRO) | [A] <15.0 | [B] | | | [E] 1000 | - | | 7 | 70-135 | 20 | |

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Project Name: Rattle Snake Reuse Pit



| Work Order # : | 591157 | | | | | | Project II |): 212C-1 | MD-0130 | 0 | | |
|-------------------------|-------------------|----------------------------|----------------|-------------------------------|------------------------|----------------|--|----------------------|----------|-------------------------|---------------------------|------|
| Lab Batch ID: | 3055798 | QC- Sample ID: | 591031-01 | 11 S | Ba | tch #: | 1 Matrix | k: Soil | | | | |
| Date Analyzed: | 07/08/2018 | Date Prepared: | 07/08/201 | 8 | An | alyst: A | ALJ | | | | | |
| Reporting Units: | mg/kg | | MA | TRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| | BTEX by EPA 8021B | Parent Sample Result | Spike Added | piked Sample Result [C] | Spiked Sample %R | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| | Analytes | [A] | [B] | | [D] | [E] | | [G] | | | | |
| Benzene | | <0.00202 | 0.101 | 0.0980 | 97 | 0.100 | 0.0845 | 85 | 15 | 70-130 | 35 | |
| Toluene | | <0.00202 | 0.101 | 0.0955 | 95 | 0.100 | 0.0816 | 82 | 16 | 70-130 | 35 | |
| Ethylbenzene | | <0.00202 | 0.101 | 0.0927 | 92 | 0.100 | 0.0836 | 84 | 10 | 70-130 | 35 | |
| m,p-Xylenes | | <0.00403 | 0.202 | 0.192 | 95 | 0.201 | 0.171 | 85 | 12 | 70-130 | 35 | |
| o-Xylene | | < 0.00202 | 0.101 | 0.0887 | 88 | 0.100 | 0.0788 | 79 | 12 | 70-130 | 35 | |
| Lab Batch ID: | 3055801 | QC- Sample ID: | 591178-00 | 01 S | Ba | tch #: | 1 Matrix | k: Soil | | | | |
| Date Analyzed: | 07/08/2018 | Date Prepared: | 07/08/201 | 8 | An | alyst: A | ALJ | | | | | |
| Reporting Units: | mg/kg | | MA | TRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| | BTEX by EPA 8021B | Parent Sample Result | Spike Added | piked Sample Result [C] | Spiked Sample %R | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| | Analytes | [A] | [B] | | [D] | [E] | | [G] | | | | |
| Benzene | | <0.00200 | 0.100 | 0.0959 | 96 | 0.101 | 0.0722 | 71 | 28 | 70-130 | 35 | |
| Toluene | | <0.00200 | 0.100 | 0.0759 | 76 | 0.101 | 0.0642 | 64 | 17 | 70-130 | 35 | X |
| Ethylbenzene | | <0.00200 | 0.100 | 0.0586 | 59 | 0.101 | 0.0451 | 45 | 26 | 70-130 | 35 | X |
| m,p-Xylenes | | <0.00401 | 0.200 | 0.118 | 59 | 0.201 | 0.0902 | 45 | 27 | 70-130 | 35 | X |
| o-Xylene | | < 0.00200 | 0.100 | 0.0591 | 59 | 0.101 | 0.0415 | 41 | 35 | 70-130 | 35 | X |

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Project Name: Rattle Snake Reuse Pit



| Work Order # : | 591157 | | | | | | Project II |): 212C-N | MD-01300 |) | | |
|-------------------------|---------------------|----------------------------|--------------|-------------------------|-----------|--------------|----------------------------|------------------|----------|-------------------|-------------------|------|
| Lab Batch ID: | 3055789 | QC- Sample ID: | 591085 | -017 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/07/2018 | Date Prepared: | 07/07/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | Ν | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA' | TE REC | OVERY | STUDY | | |
| | Chloride by EPA 300 | Parent Sample Result | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Chloride | | <4.90 | 245 | 242 | 99 | 245 | 242 | 99 | 0 | 90-110 | 20 | |
| Lab Batch ID: | 3055789 | QC- Sample ID: | 591157 | -004 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/07/2018 | Date Prepared: | 07/07/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | Ν | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA' | TE REC | OVERY | STUDY | | |
| | Chloride by EPA 300 | Parent Sample | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Chloride | | 14.7 | 249 | 258 | 98 | 249 | 257 | 97 | 0 | 90-110 | 20 | |
| Lab Batch ID: | 3055792 | QC- Sample ID: | 591157 | -017 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/07/2018 | Date Prepared: | 07/07/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | Ν | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA' | TE REC | OVERY | STUDY | | |
| | Chloride by EPA 300 | Parent Sample | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Chloride | | 270 | 247 | 487 | 88 | 247 | 486 | 87 | 0 | 90-110 | 20 | X |

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Project Name: Rattle Snake Reuse Pit



| Work Order # : | 591157 | | | | | | Project II |): 212C-1 | MD-0130 |) | | |
|-------------------------|---------------------|----------------------------|--------------|-------------------------|------------------------|--------------|----------------------------|------------------|---------|-------------------|-------------------|------|
| Lab Batch ID: | 3055792 | QC- Sample ID: | 591157 | -025 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/07/2018 | Date Prepared: | 07/07/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| | Chloride by EPA 300 | Parent Sample Result | Spike | Spiked Sample Result | Sample | | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Chloride | | 195 | 246 | 426 | 94 | 246 | 424 | 93 | 0 | 90-110 | 20 | |
| Lab Batch ID: | 3055865 | QC- Sample ID: | 591545 | -001 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/09/2018 | Date Prepared: | 07/09/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | Ν | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| | Chloride by EPA 300 | Parent Sample | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Chloride | | 270 | 250 | 535 | 106 | 250 | 533 | 105 | 0 | 90-110 | 20 | |
| Lab Batch ID: | 3055865 | QC- Sample ID: | 591545 | -003 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/09/2018 | Date Prepared: | 07/09/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| | Chloride by EPA 300 | Parent Sample Result | Spike | Spiked Sample Result | Spiked Sample %R | - | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Chloride | | 148 | 249 | 409 | 105 | 249 | 409 | 105 | 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



Project Name: Rattle Snake Reuse Pit



| Work Order # : | 591157 | | | | | | Project II |): 212C-1 | MD-0130 | 0 | | |
|-------------------------|----------------------|----------------------------|--------------|-------------------------|------------------------|--------------|----------------------------|----------------------|----------|-------------------------|---------------------------|------|
| Lab Batch ID: | 3055866 | QC- Sample ID: | 591157 | -043 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/09/2018 | Date Prepared: | 07/09/2 | 2018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | Ν | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| | Chloride by EPA 300 | Parent Sample Result | Spike | Spiked Sample Result | Spiked Sample %R | Spike | Duplicate Spiked Sample | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| | Analytes | [A] | Added [B] | [C] | %K [D] | Added [E] | Result [F] | %K [G] | 70 | % K | %KPD | |
| Chloride | | 219 | 247 | 482 | 106 | 247 | 478 | 105 | 1 | 90-110 | 20 | |
| Lab Batch ID: | 3055866 | QC- Sample ID: | 591564 | -001 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/09/2018 | Date Prepared: | 07/09/2 | 2018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| | Chloride by EPA 300 | Parent Sample | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Chloride | | 440 | 247 | 683 | 98 | 247 | 682 | 98 | 0 | 90-110 | 20 | |
| Lab Batch ID: | 3055923 | QC- Sample ID: | 591024 | -001 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/07/2018 | Date Prepared: | 07/07/2 | 2018 | An | alyst: A | ARM | | | | | |
| Reporting Units: | mg/kg | | Ν | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| | TPH by SW8015 Mod | Parent Sample | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Gasoline Range | e Hydrocarbons (GRO) | <15.0 | 997 | 952 | 95 | 999 | 948 | 95 | 0 | 70-135 | 20 | |
| Diesel Range C | Drganics (DRO) | <15.0 | 997 | 1070 | 107 | 999 | 1060 | 106 | 1 | 70-135 | 20 | |

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Project Name: Rattle Snake Reuse Pit



| Work Order # : | 591157 | | | | | | Project II |): 212C-1 | MD-01300 |) | | |
|-------------------------|--------------------|------------------|--------------|-------------------------|-----------|--------------|----------------------------|------------------|----------|-------------------|-------------------|------|
| Lab Batch ID: | 3055931 | QC- Sample ID: | 591031 | -001 S | Ba | tch #: | 1 Matrix | k: Soil | | | | |
| Date Analyzed: | 07/08/2018 | Date Prepared: | 07/08/2 | 018 | An | alyst: A | ARM | | | | | |
| Reporting Units: | mg/kg | | Μ | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY S | STUDY | | |
| , | ГРН by SW8015 Mod | Parent Sample | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | | RPD | Control Limits | Control Limits | Flag |
| | Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Gasoline Range | Hydrocarbons (GRO) | <15.0 | 999 | 1010 | 101 | 999 | 989 | 99 | 2 | 70-135 | 20 | |
| Diesel Range Or | rganics (DRO) | <15.0 | 999 | 1050 | 105 | 999 | 1020 | 102 | 3 | 70-135 | 20 | |

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery $[G] = 100^{*}(F-A)/E$

| | | Relinquished by: | | Pelinguished by: | Relinquisbelt by: | Τ- | т. Т. | T- | T - | T - | - | | | | | | | ΔΡ # | | | | Deceiving | Invoice to: | Project Location: (county, state) | Project Name: | | | |
|----------------------------|--------------------------------------|-------------------------|--------------------|--------------------|-------------------|----------|------------|-----------|------------|-------------|----------|----------|----------|----------|----------|--|---------------------------------------|--------------------------------|-----------------------------|---|--------------------|-----------|-------------|--------------------------------------|------------------------|----------------|--|------------|
| | | Date: Time: | | ~ Viterty + 7-3-12 | Date: Time: | T-2 (1') | T-2 (0-1') | T-1 (12') | T-1 (10') | T-1 (8') | T-1 (6') | T-1 (4) | 1-1 (2) | 1-1 (1) | | | | | | Run Deeper samples if benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. 1,000 mg/kg | Ty: Xenco | EOG | | Lea County, New Mexico | Rattle Snake Reuse Pit | EOG | Tetra Tech, Inc. | |
| ORIGINAL COPY | | Received by: | Heceived by: | Mulle | Received by: | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | DATE | | YEAR: 2018 | SAMPLING | I BTEX exceeds 50 m | Sampler Signature: | | | Project #: | | Site Manager: | | |
| × | | Date: | Date: | 13/ | ∩ Date: | × | × | × | × | X | X | × | × | × | × | WAT SOIL HCL HNO | | | MATRIX PRI | g/kg. Run deeper samples if T | Mike Carmona | | | 212C-MD-01300 | | Clair Gonzales | 4000 N. Big Spring Street, Ste 401 Midland, Texas 79705 Tel (432) 662-4559 Fax (432) 662-3946 | |
| | | Time: | - Time: | 18 1941 | me: | _ | | _ | × | × 1 1 | | X 1N | X 1 N | X 1 N | X 1N | ICE None # CON | TÁIN | NER | | nples if TPH exceeds | ona | | | 1300 | | | J Street, Ste xas 79705 2-4559 2-3946 | |
| (טווסויי) האועם טיבנועבאבט | | 100 2990 | Sample Temperature | ONLY | | | × | | | | | | | | × | PAH 8 Total M | 8021 X100 D15M 270C etals | B 95 (E 1 (G ; Ag | BTEX Ext to (iRO - I | (8260B | b Se H | - | | | | | | |
| FEDEX OPS | | Rush Charges Authorized | RUSH: Same Day | TANDARD | REMARKS: | | | | | | | | | | · | TCLP V TCLP S RCI GC/MS | olatil emi Vol. Sem | les Vola 826 ii. Vo | tiles 30B / 6 51. 82 | | | 19 | | | le or Specify Method | ANALYSIS REQ | 50115 | 1 A REPORT |
| I racking #: | Special Report Limits or TRRP Report | ; Authorized | 24 hr 48 hr | ARD | | | < > | < > | × ; | × ; | × ; | × | × | × | × | NORM PLM (A Chloride Chlorid Genera Anion/C | e S I Wa | Sulfa | Chemi | TDS istry (see | attacl | ned I | ist) | | lethod No.) | REQUEST | Ψ | Page |
| | Ā | | 72 hr | | | | | | | | | | | Page | | Hold of 39 | | | | | | Fi | nai | 1.000 | | | | 1 of 6 |

| Analysis Reque | Analysis Request of Chain of Custody Record | | | | | | | | | | | _ | Daue | D | | | s 2 | | 'n | |
|--------------------------------------|--|-----------------------|---|--|-------------------|--------------------------------|----------------------|----------------|---------------------------|--------------------------------------|----------|----------------|------------|----------------|------------|--------------|--------|---|-----|----------|
| F | Tetra Tech, Inc. | | 4000 N, Bi 401 Mid Tel (Fax (| 4000 N. Big Spring Street, Ste 401 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 | | | | 21 | $\underline{\mathcal{O}}$ | | J I | $\frac{1}{11}$ | T l | • | | | | 1 | | J'` |
| Client Name: | EOG | Site Manager: | Clair Gonzales | zales | | | | ≥ (| ANALYSIS | | REQUEST | ĨĬ, | ۲ ۲ | | | | | | | I |
| Project Name: | Rattle Snake Reuse Pit | | | | | | | (Circle o | – e – sp | Specify Method | N | | - õ | | - <u>?</u> | | - | | | |
| Project Location: (county, state) | Lea County, New Mexico | Project #: | 212C-1 | 212C-MD-01300 | | | | | | | | | | | | | | | | 1.000 |
| Invoice to: | EOG | | | | | | |] | | | | | | | ed list) | | | | | Final |
| Receiving Laboratory: | Yanno | Sampler Signature: | Mike C | Mike Carmona | | | | ***** | | | | | | | ttach | | | | | |
| Comments: Run 1,00 | Aun Deeper samples if benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper samples if TPH exceeds 1,000 mg/kg | L FEX exceeds 50 m | g/kg. Run deepe | er samples if TP | H exceeds | 5) | | | | | | , | | DS | ry (see | | | | | |
| | | SAMPLING | MATRIX | PRESERVATIVE | | | | | atiles | | | | | ate | | alance | | | | |
| LAB # | SAMPLE IDENTIFICATION | YEAR: 2018 | 7 | | | 1005 (E | roc (| tals Ag | mi Vola | | | | estos) | Sulf | | tion Ba | | | | |
| (LAB USE) | | DATE | WATEI SOIL | HCL HNO ₃ ICE None | # CONT | 3TEX 80 17PH TX 17PH 801 | PAH 827 Total Met | CLP Me | CLP Se | C/MS V | PCB's 80 | IORM | LM (Ast | hloride | ieneral \ | nion/Ca | | | old | of 39 |
| T-2 (2') | 2') | 7/2/2018 | × | × | ╪┥ | Ē | ł | 1 | | _ | | _ | | | C | _ <u> </u> ^ | + | 1 | Н | 34 c |
| T-2 (4') | 4') | 7/2/2018 | × | × | -1 Z | | | - | | | | | \times | <u> </u> † | | -+ | + | T | Τ | age |
| T-2 (6') | 6') | 7/2/2018 | X | × | 1 2 | | | | | | | \square | × | | | -+ | + | | T | F |
| T-2 (8') | (8) | 7/2/2018 | × | × | 1 N | | | | | | | | × | | | - | \neg | | | l |
| T-3 (0-1') | 0-1) | 7/2/2018 | × | × | 1 N | ×× | | | | | | | × | | | -+ | -+ | | | |
| T-3 (1) | 1) | 7/2/2018 | × | × | 1 Z | | | | | | | | × | | | | - | | | L |
| T-3 (2') | 2) | 7/2/2018 | × | × | _1 Z | | | | | | | | × | | | | | | | |
| 1-3 (4) T 0 (2) | 4) | 7/2/2018 | × | × | L N | | | | | <u> </u> | | | × | È | | | | | | |
| T-3 (8') | 8) | 7/2/2018 7/2/2018 | ×× | ×× | - <u>-</u> z z | | | | | | | | | | | | + | | | |
| Helinquisneappy: | Date: Time: | Received by: | | Time: | | LAE | LAB USE | R | REMARKS: | STANDARD | | Ē [| L | F | ľ | ┠ | ŀ | Γ | [| |
| Relinguished by: | 2 | 2 | | 112 0 | 441 | 0 | ONLY | 4 | IR | | | ĩ | | | | | | | | ****** |
| omquarace by. | | Hecelved by: | De | Date: Time: | | Sample Temperature | mperatur | 0 ⁰ | | RUSH: Same Day 24 F | Same | e Day | 2 | 24 hr rized | 48 hr | | 72 hr | | | |
| neiinquisned by: | Date: Time: | Received by: | De | Date: Time: | | | N.C. | | ^{کړ} | Special Report Limits or TRRP Report | 3epor | tLim | its o | r TRF | R db | eport | - | | | |
| | | | | | | (Circle) HAND DELIVERED | AND DEL | IVERED | FEDEX | X UPS | | Tracking #: | ing #: | | | | | | | |

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| | Relinquished by: | | Relinguished by: | Relinquisped by: | | | | | | | | | | (LAB USE) | LAB # | | | Heceiving Laboratory: | Invoice to: | Project Location: (county, state) | Project Name: | | | Analysis Re |
|-------------------------|--------------------------|--------------------|------------------|--------------------------|--------------------|----------------------|----------|----------|----------|----------|----------|------------|-----------|------------------------------------|-----------------------|--------------|--|-----------------------|-------------|--------------------------------------|------------------------|----------------|--|---|
| | Date: Time: | | -lonkoving 73-18 | A Date: Time: | 1-5 (1) T-5 (2) | 1-5 (0-1) 7 F (2) | 1-4 (8') | T-4 (6') | T-4 (4') | T-4 (2') | T-4 (1') | T-4 (0-1') | T-3 (10') | | SAMPLE IDENTIFICATION | | Run Deeper samples if benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper samples if TPH 1,000 mg/kg | tory: Xenco | EOG | Lea County, New Mexico | Rattle Snake Reuse Pit | EOG | Tetra Tech, Inc. | Analysis Request of Chain of Custody Record |
| ORIGINAL COPY | Received by: | Heceived by: | But | 7/2/2018 Received by: | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | DATE | YEAR: 2018 | SAMPLING | BTEX exceeds 50 m | Sampler Signature: | | Project #: | | Site Manager: | | |
| Ϋ́ | Date: | Date: | Ull 7/3/ | | × | × | × | × | × | X | × | × | × | WATER SOIL HCL | 2 | MATRIX | ng/kg. Run deeper | Mike Carmona | | 212C-MD-01300 | | Clair Gonzales | 4000 N. Big S 401 - Midlan Tel (432 Fax (432 | |
| | : Time: | : Time: | Ċ, | | × | × | × | × | × | × | × | × | × | HNO ₃ ICE None | | PRESERVATIVE | samples if TPH e | rmona | | D-01300 | | ales | 4000 N. Big Spring Street, Ste 401 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 | |
| | | | | 1 Z | Z | 1 Z | 1 N | L N | _ Z | - Z | N N | - Z | N N | # CONTA | | | exceeds | | | | | | | |
| (Circle) HAND DELIVERED | | Sample Temperature | LAB ON | | | X X | | | | | | × × | | BTEX 802 TPH TX10 TPH 8015 | 005 (| Ext to | | RO) | | | | | | |
| ND DELN | 600 | mperature | LAB USE | | | | | | | | | | | PAH 8270 Total Meta | DC als Ag | j As B | a Cd Cr P | b Se Hg | | | (Circle | | | |
| | | | | | | | | | | | | | | TCLP Meta TCLP Vola TCLP Sem | atiles | | Ba Cd Cr F | 'b Se H | g | | _ q | Ą | | |
| FEDEX |]Specia |]RUSH | | | | | | | | | | | | RCI GC/MS Vo | | | 624 | | | | Specify Method No. | ANALYSIS | \mathcal{T} | |
| UPS | Prush Charges Authorized | RUSH: Same Day | s: STANDARD | | | | | | \neg | | | | _ | GC/MS Se PCB's 808 | | | 270C/625 | | | | - ify N | SREC | D | |
| Tracking #: | s Autho rt Limits | e Day | ARD | <u> </u> | | | | | \neg | | | 4 | | NORM PLM (Asbe | estos |) | | | | | leth | REQUES | | σ |
| ;#[| orized | 24 hr | | × | × | × | × | × | × | × | × | × | × | Chloride Chloride | Sul | | TDS | | | | – d – V | Ī | ן ת | Page |
| | 1RP Re | . 48 hr | | | | | | | | + | | | - (| General W | /ater | Chen | nistry (see | attach | ned list |) | - <u>0</u> | . | <u>ا لہ</u> | |
| | port | 72 | | | | | | | | | | | | Anion/Cati | on B | alanc | e | | | | | | l | ω |
| | | ħ | | | $\left \right $ | -+ | - | + | + | + | + | _ | | | | | | | | | | | ľ | 으 |
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| 8000L | | Relinquished by: | romiquisition by. | Mester 1 | Relinquished by: | T-7 | | | T | | - T | Т. | T_5 | <u></u> | T-5 | (LAB USE ONLY) | LAB # | | Comments: Ru | | Depoiving Laborator | Invoice to: | Project Location: (county, state) | Project Name: | | Client Name: | (F) | Analysis Requ |
|-------------------------|--------------------------------------|-------------------------|--------------------|----------|------------------|------------|----------|----------------------|----------------------|----------|-----------------------|----------|----------|------------|-------------|---|-------------------------|------------------------|---|--------------------|---------------------|-------------|--|--------------------------|----------------|--------------|---|---|
| | | Date: Time: | | R | Date: Time: | T-7 (0-1') | T-6 (8') | 1-0 (4) T-6 (6') | 1-0 (∠) Τ.ε. (Λ') | | 1-0 (0-1) T-6 (41) | | T-5 (8') | T-5 (6') | 5 (4') | | SAMPLE IDENTIFICATION | | Run Deeper samples if benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper samples if TPH exceeds 1,000 mg/kg | Xenco | EOG | | Lea County, New Mexico | Rattle Snake Reuse Pit | EOG | 1 | Tetra Tech, Inc. | Analysis Request of Chain of Custody Record |
| | | Received by: | Received by: | Alusia | Received by: | 8102/2/1 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 7/2/2018 | 01077271 | 8 F NC/C/T | 7/2/2018 | DATE | YEAR: 2018 | SAMPLING | II BTEX exceeds 50 m | Sampler Signature: | | | Project #: | | She manager: | Site Manager | | |
| | | Date: | Date: | W 7/3 | | < × | × | × | × | × | × | × | > | < [| × | WATER SOIL HCL | | MATRIX | g/kg. Run deeper | Mike Carmona | | | 212C-M | | Clair Gonzales | | 4000 N. Big S 401 Midlar Tel (433 Fax (433 | |
| | | : Time: | Time | lle | I IX III | < × | × | × | × | × | × | × | > | <; | × | HNO ₃ ICE None | | PRESERVATIVE METHOD | samples if TPH (| rmona | | | 212C-MD-01300 | | ales | | 4000 N. Big Spring Street, Ste 401 Mildand,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 | |
| (Cin | | t | San | | N N | | Z | Z | 1 Z | -1 Z | 1 2 X | 1 Z | | | z | # CONTA FILTERE |) (Y | ′N) | SXCeeds 4 8260B | | | | | | | | | |
| (Circle) HAND DELIVERED | NC8 | 2. 4 (0.0 | Sample Temperature | LAB USE | × | | | | | | × | | | | | TPH TX10 TPH 8015 PAH 8270 Fotal Meta | M ((| GRO - | DRO - OI | | g | | | (Cir | | | | |
| VERED FEDEX UPS | Special Re | | RUSH: Same Day | | BEMADKS. | | | | | | | | | | F | TCLP Meta TCLP Vola TCLP Sem RCI GC/MS Vo GC/MS Se | tiles i Vol I. 82 | atiles 260B / 6 | 624 | b Se H | łg | | | Circle or Specify Method | ANALYSIS A | C | 2 | |
| S Tracking #: | Special Report Limits or TRRP Report | Rush Charges Authorized | 24 hr | STANDARD | | × | × | × | × | × | × | × | × | | ۲ ۲ ۲ | PCB's 808 NORM PLM (Asbe Chloride Chloride | stos) Suli |) fate | TDS | | | | | V Method No. | REQUEST | | + 7 1 1 1 | Page |
| | ^o Report | | 48 hr 72 hr | | | | | | | | | | | | | General W | | | | e attacl | ned li | st) | ······································ | - `` | | | | 4 of |
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| Analysis Re | Analysis Request of Chain of Custody Record | | | | | | | | | | | | | - TO | Page | Φ | | | თ ი | ç | | თ | |
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| | Tetra Tech, Inc. | | 4000 N. Big 401 Midi Tei (4: Fax (4: | 4000 N. Big Spring Street, Ste 401 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 | | | | | 5 | イー | $\underline{\bigcirc}$ | | \sum | -11 | \top | | | | | l. | | | |
| Client Name: | EOG | Site Manager: | Clair Gonzales | ales | | | | | ≥ | ANALYSIS | NSI: | | REQUEST | IES | ٦ŀ | | | | | | | | |
| Project Name: | Rattle Snake Reuse Pit | | | | | | | – Circle | - Ö | - ୧ - ୬ | - 'p | _¥ | Specify Method | - th | - 0 2 | Ę | - ·· | | - | | | | |
| Project Location: (county, state) | Lea County, New Mexico | Project #: | 212C-N | 212C-MD-01300 | | | | | · | | | | | · · · · | <u></u> | | | | | | | 1:000 | |
| Invoice to: | EOG | | | | | | | | | | | | | | | | d list) | | | | | Tinai | mai |
| Receiving Laboratory: | | Sampler Signature: | | | | |) | <u> </u> | е нд | | | | | | | | ache | | | | | | |
| | Xenco | | Mike Carmona | armona | | | RO | | 105 | | | | | | | | e at | | | | | | |
| Comments: | Run Deeper samples if benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. 1,000 mg/kg | TEX exceeds 50 mg | /kg. Run deepe | Run deeper samples if TPH | l exceeds | 8260B | DRO - OI | Cd Cr Pl | Cd Cr F | | 24 | '0C/625 | | | - · · | TDS | stry (see | | | | | | |
| | | SAMPLING | MATRIX | PRESERVATIVE METHOD | | | GRO - | - | g As Ba | latiles | 260B / 6 | | 808 |) | , | fate | Chem | alance | | | | | |
| LAB # | SAMPLE IDENTIFICATION | YEAR: 2018 | R | | | | ····· | | | mi Vol | /ol. 82 | | 082 / 6 | pestos | | Sul | Water | tion B | | | | | |
| | | DATE | WATE SOIL | HCL HNO ₃ ICE None | | BTEX 8 | PH 80 AH 82 | | CLP Me | CLP Se | C/MS V | C/MS S | CB's 8 | LM (Asl | hloride | hloride | ieneral | nion/Ca | | | | old जाउल | |
| | T-7 (1') | 7/2/2018 | × | × | ╞┥ | | | | | | | | | | - | | 0 | 4 | + | + | - - | - | 5, 1 |
| | T-7 (2') | 7/2/2018 | × | × | 1 Z | _ | | _ | | | + | | + | + | \overline{z} | 1 | | | + | ╉ | + | ade | ~90 |
| | T-7 (4') | 7/2/2018 | × | × | -1 Z | | | | | -+ | -+ | | + | | ׆: | | | | | | + | | |
| | T-7 (6') | 7/2/2018 | × | × | 1 N | | - | | | - | - | | _ | \dashv | × | | | _ | \rightarrow | + | + | | |
| | 1-7 (8') | 7/2/2018 | × | × | 1 N | | | | | | | | | | × | | | | | | -+ | | |
| | Ан-в (U-1') | 7/2/2018 | × | × | 1 N | × | × | | | | | | | | × | | | | | | -+ | | |
| | AH-8 (7:-7:5) | 7/2/2018 | × | × | 1 Z | | - | ļ | | | | | | | × | | | | | | | | |
| | AH 6 (2: 2 EV AH -6 (2-2.3) | 7/2/2018 | × | × | _1 Z | | | | | ┣ | <u> </u> | | | | × | | | | | | | | |
| | AH-9 (0-1') | 7/2/2018 | < × | × × | z | | : | — | | | | 1 | + | + | × | | | | | - | | 1 | |
| Relinquished by: | A Date: Time: | Received by: | | te: Time: | - | ^ | 2 | | Ŗ | | Ì− | | \vdash | \vdash | × | | | | \vdash | \vdash | ┢ | 1 | |
| hester | Postevint 7-3-18 | MUJU | U 71. | 9 | 941 | | ONLY | ς ο Π | | | ي ب | ΓAΝ | STANDARD | G | | | | | | | | | |
| neiinquisnea by: | Date: Time: | Received by: | Date: | te: Time: | | Sample Temperature | Tempe | rature | | ╎╷ | HSD | ເ | RUSH: Same Day | Day | 24 hr | ⁱ hr | 48 hr | | 72 hr | = | | | |
| Relinquished by: | Date: Time: | Received by: | Date: | te: Time: | | ١ | 25 | 6° 3 | | ╵└┈ | ush (| Chan | Rush Charges Authorized | Auth | orize | ă | | | | | | | |
| | | | | | | | , | | | | | | | | | Ā | | repo | | | | 1 | |
| | | | | | | (Circle) HAND DELIVERED | HAND | DELIV | ERED | FEDEX | | UPS | | Tracking #: | g#: | | | | | | | _ | |

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Relinquished by: Relinquished by: Relinguished by: Project Location: Analysis Request of Chain of Custody Record Comments: (county, state) ^oroject Name: leceiving Laboratory: lient Name: voice to: LAB USE LAB # ies tox đ AH-10 (3'-3.5') AH-10 (2'-2.5') AH-9 (3'-3.5') AH-9 (2'-2.5') AH-9 (1'-1.5') Run Deeper samples if benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper samples if TPH exceeds 1,000 mg/kg AH-10 (1'-1.5') AH-10 (0-1') Xenco EOG EOG Rattle Snake Reuse Pit Lea County, New Mexico **Fetra Tech, Inc.** SAMPLE IDENTIFICATION 73418 Date: Date: Date: Time: lime: Time: Received by: Received by Receiv Sampler Signature: YEAR: 2018 Project #: Site Manager: 7/2/2018 7/2/2018 7/2/2018 7/2/2018 7/2/2018 7/2/2018 7/2/2018 DATE SAMPLING TIME WATER Clair Gonzales MATRIX × × X × × $\times \times$ SOIL 4000 N. Big Spring Street, Ste 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 212C-MD-01300 Mike Carmona Date: Date: Date HCL Ś PRESERVATIVE HNO₃ CA) × × × × × × ICE Time: × Time: Ī None Cqu, # CONTAINERS z z z z Z z z FILTERED (Y/N) (Circle) HAND DELIVERED Sample Temperature × BTEX 8021B BTEX 8260B 32100 TPH TX1005 (Ext to C35) LAB USE ONLY \times TPH 8015M (GRO - DRO - ORO) んじ PAH 8270C (Circle or Specify Method No.) Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles REMARKS: **ANALYSIS REQUEST** X RUSH: Same Day 24 hr TCLP Semi Volatiles ____Rush Charges Authorized FEDEX UPS Special Report Limits or TRRP Report RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 Tracking #: NORM Page PLM (Asbestos) × ×× $\times \times$ X × Chloride Chloride Sulfate TDS 48 hr General Water Chemistry (see attached list) Anion/Cation Balance 72 hr თ ੍ਰ Hold Page 38 of 39 Final 1.000

ORIGINAL COPY



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 07/03/2018 09:41:00 AM Temperature Measuring device used : R8 Work Order #: 591157 Comments Sample Receipt Checklist 3.2 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? No #18 Water VOC samples have zero headspace? N/A

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

Analyst:

PH Device/Lot#:

Date: 07/03/2018

Checklist completed by: Market Katie Lowe Checklist reviewed by: Market Kelsey Brooks

Date: 07/05/2018

Analytical Report 592594

for Tetra Tech- Midland

Project Manager: Clair Gonzales

EOG-Rattlesnake Reuse Pit

212C-MD-01300

20-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



20-JUL-18



Project Manager: **Clair Gonzales Tetra Tech- Midland** 4000 N. Big Spring Suite 401 Midland, TX 79705

Reference: XENCO Report No(s): **592594 EOG-Rattlesnake Reuse Pit** Project Address: Lea County, New Mexico

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 592594. 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. 592594 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,

Kursh

Kelsey Brooks Project Manager

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 592594



Tetra Tech- Midland, Midland, TX

EOG-Rattlesnake Reuse Pit

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-------------|--------|----------------|--------------|---------------|
| T-11 (0-1') | S | 07-17-18 00:00 | | 592594-001 |
| T-11 (1') | S | 07-17-18 00:00 | | 592594-002 |
| T-11 (2') | S | 07-17-18 00:00 | | 592594-003 |
| T-11 (4') | S | 07-17-18 00:00 | | 592594-004 |
| T-11 (6') | S | 07-17-18 00:00 | | 592594-005 |
| T-11 (8') | S | 07-17-18 00:00 | | 592594-006 |
| T-11 (10') | S | 07-17-18 00:00 | | 592594-007 |
| T-12 (0-1') | S | 07-17-18 00:00 | | 592594-008 |
| T-12 (1') | S | 07-17-18 00:00 | | 592594-009 |
| T-12 (2') | S | 07-17-18 00:00 | | 592594-010 |
| T-12 (4') | S | 07-17-18 00:00 | | 592594-011 |
| T-12 (6') | S | 07-17-18 00:00 | | 592594-012 |
| T-12 (8') | S | 07-17-18 00:00 | | 592594-013 |
| T-12 (10') | S | 07-17-18 00:00 | | 592594-014 |
| T-13 (0-1') | S | 07-17-18 00:00 | | 592594-015 |
| T-13 (1) | S | 07-17-18 00:00 | | 592594-016 |
| T-13(2') | S | 07-17-18 00:00 | | 592594-017 |
| T-13 (4') | S | 07-17-18 00:00 | | 592594-018 |
| T-13 (6') | S | 07-17-18 00:00 | | 592594-019 |
| T-13 (8') | S | 07-17-18 00:00 | | 592594-020 |
| T-13 (10') | S | 07-17-18 00:00 | | 592594-021 |



CASE NARRATIVE

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

Project ID: 212C-MD-01300 Work Order Number(s): 592594 Report Date:20-JUL-18Date Received:07/17/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3056801 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 592594

Tetra Tech- Midland, Midland, TX Project Name: EOG-Rattlesnake Reuse Pit



Project Id:212C-MD-01300Contact:Clair GonzalesProject Location:Lea County, New Mexico

Date Received in Lab:Tue Jul-17-18 04:48 pmReport Date:20-JUL-18Project Manager:Kelsey Brooks

| | Lab Id: | 592594-0 | 001 | 592594-0 | 02 | 592594-0 | 03 | 592594-0 | 04 | 592594-0 | 05 | 592594-0 | 06 |
|-----------------------------------|------------|-------------|----------|-------------|------|-------------|------|-------------|--------|-------------|------|-------------|------|
| | Field Id: | T-11 (0- | 1') | T-11 (1 |) | T-11 (2' | | T-11 (4 | ') | T-11 (6' |) | T-11 (8' |) |
| Analysis Requested | Depth: | , | <i>,</i> | , | , | , | , | , | , , | | | | , |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-17-18 (| 00:00 | Jul-17-18 0 | 0:00 | Jul-17-18 0 | 0:00 | Jul-17-18 (| 0:00 | Jul-17-18 0 | 0:00 | Jul-17-18 0 | 0:00 |
| BTEX by EPA 8021B | Extracted: | Jul-17-18 1 | 18:00 | | | | | | | | | | |
| | Analyzed: | Jul-18-18 (| 09:53 | | | | | | | | | | |
| | 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: | Jul-18-18 1 | 16:00 | Jul-18-18 1 | 6:00 | Jul-18-18 1 | 6:00 | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 5:00 | Jul-19-18 1 | 6:00 |
| | Analyzed: | Jul-18-18 2 | 20:01 | Jul-18-18 2 | 0:06 | Jul-18-18 2 | 0:12 | Jul-19-18 1 | 7:48 | Jul-19-18 1 | 3:04 | Jul-19-18 1 | 8:09 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 3120 | 25.0 | 2020 | 25.1 | 960 | 4.98 | 118 | 5.04 | <4.96 | 4.96 | 12.6 | 5.01 |
| TPH By SW8015 Mod | Extracted: | Jul-19-18 1 | 12:00 | | | | | | | | | | |
| | Analyzed: | Jul-19-18 1 | 15:49 | | | | | | | | | | |
| | Units/RL: | mg/kg | RL | | | | | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | · | <15.0 | 15.0 | | | | | | | | | | |
| Diesel Range Organics (DRO) | | <15.0 | 15.0 | | | | | | | | | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 | 15.0 | | | | | | | | | | |
| Total TPH | | <15.0 | 15.0 | | | | | | | | | | |

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

Huns Arah

Kelsey Brooks Project Manager



Certificate of Analysis Summary 592594

Tetra Tech- Midland, Midland, TX Project Name: EOG-Rattlesnake Reuse Pit



Project Id:212C-MD-01300Contact:Clair GonzalesProject Location:Lea County, New Mexico

Date Received in Lab:Tue Jul-17-18 04:48 pmReport Date:20-JUL-18Project Manager:Kelsey Brooks

| | Lab Id: | 592594-0 | 07 | 592594-0 | 08 | 592594-0 | 000 | 592594-0 | 10 | 592594-(|)11 | 592594-0 |)12 |
|-----------------------------------|------------|-------------|-------|-------------|---------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|
| | Field Id: | T-11 (10 | | | | | | | - | T-12 (4 | | | |
| Analysis Requested | | 1-11 (10 | ,) | T-12 (0-1 | .) | T-12 (1 |) | T-12 (2 |) | 1-12 (4 |) | T-12 (6 |) |
| ~ 1 | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-17-18 0 | 00:00 | Jul-17-18 0 | 0:00 | Jul-17-18 0 | 00:00 | Jul-17-18 (| 00:00 | Jul-17-18 (| 00:00 | Jul-17-18 0 | 00:00 |
| BTEX by EPA 8021B | Extracted: | | | Jul-17-18 1 | 8:00 | | | | | | | | |
| | Analyzed: | | | Jul-18-18 1 | 0:11 | | | | | | | | |
| | Units/RL: | | | mg/kg | RL | | | | | | | | |
| Benzene | | | | < 0.00201 | 0.00201 | | | | | | | | |
| Toluene | | | | < 0.00201 | 0.00201 | | | | | | | | |
| Ethylbenzene | | | | | 0.00201 | | | | | | | | |
| m,p-Xylenes | | | | < 0.00402 | 0.00402 | | | | | | | | |
| o-Xylene | | | | | 0.00201 | | | | | | | | |
| Total Xylenes | | | | | 0.00201 | | | | | | | | |
| Total BTEX | | | | < 0.00201 | 0.00201 | | | | | | | | |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 6:00 |
| | Analyzed: | Jul-19-18 1 | 8:15 | Jul-19-18 1 | 8:20 | Jul-19-18 1 | 8:36 | Jul-19-18 1 | 8:42 | Jul-19-18 1 | 8:47 | Jul-19-18 1 | 8:52 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 49.0 | 5.05 | 1260 | 25.1 | 826 | 4.95 | 50.2 | 5.01 | 5.83 | 5.00 | 24.7 | 4.96 |
| TPH By SW8015 Mod | Extracted: | | | Jul-19-18 1 | 2:00 | | | | | | | | |
| | Analyzed: | | | Jul-19-18 1 | 6:09 | | | | | | | | |
| | Units/RL: | | | mg/kg | RL | | | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | <15.0 | 15.0 | | | | | | | | |
| Diesel Range Organics (DRO) | | | | <15.0 | 15.0 | | | | | | | | |
| Oil Range Hydrocarbons (ORO) | | | | <15.0 | 15.0 | | | | | | | | |
| Total TPH | | | | <15.0 | 15.0 | | | | | | | | |

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Huns Arah

Kelsey Brooks Project Manager



Certificate of Analysis Summary 592594

Tetra Tech- Midland, Midland, TX Project Name: EOG-Rattlesnake Reuse Pit



Project Id:212C-MD-01300Contact:Clair GonzalesProject Location:Lea County, New Mexico

Date Received in Lab:Tue Jul-17-18 04:48 pmReport Date:20-JUL-18Project Manager:Kelsey Brooks

| | Lab Id: | 592594-0 |)13 | 592594-0 | 014 | 592594-0 | 15 | 592594-0 | 16 | 592594-0 |)17 | 592594-0 | 18 |
|-----------------------------------|------------|-------------|-------|-------------|-------|--------------|---------|-------------|------|-------------|-------|-------------|------|
| Analysis Requested | Field Id: | T-12 (8 |) | T-12 (10 |))) | T-13 (0-1 | 1') | T-13 (1 |) | T-13(2 |) | T-13 (4 | ') |
| Inulysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-17-18 (| 00:00 | Jul-17-18 0 | 00:00 | Jul-17-18 0 | 0:00 | Jul-17-18 0 | 0:00 | Jul-17-18 (| 00:00 | Jul-17-18 0 | 0:00 |
| BTEX by EPA 8021B | Extracted: | | 1 | | | Jul-17-18 1 | 8:00 | | | | | | |
| | Analyzed: | | | | | Jul-18-18 10 | 0:29 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Benzene | | | | | | < 0.00202 | 0.00202 | | | | | | |
| Toluene | | | | | | < 0.00202 | 0.00202 | | | | | | |
| Ethylbenzene | | | | | | < 0.00202 | 0.00202 | | | | | | |
| m,p-Xylenes | | | | | | | 0.00403 | | | | | | |
| o-Xylene | | | | | | | 0.00202 | | | | | | |
| Total Xylenes | | | | | | | 0.00202 | | | | | | |
| Total BTEX | | | | | | < 0.00202 | 0.00202 | | | | | | |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Jul-19-18 1 | 16:00 | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 6:00 |
| | Analyzed: | Jul-19-18 1 | 18:58 | Jul-19-18 1 | 9:03 | Jul-19-18 19 | 9:19 | Jul-19-18 1 | 9:25 | Jul-19-18 1 | 9:41 | Jul-19-18 1 | 9:46 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 24.8 | 5.03 | 12.4 | 4.95 | 261 | 4.99 | 28.2 | 4.97 | 10.7 | 5.04 | 17.0 | 5.02 |
| TPH By SW8015 Mod | Extracted: | | | | | Jul-19-18 12 | 2:00 | | | | | | |
| | Analyzed: | | | | | Jul-19-18 1 | 6:29 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | | | <14.9 | 14.9 | | | | | | |
| Diesel Range Organics (DRO) | | | | | | <14.9 | 14.9 | | | | | | |
| Oil Range Hydrocarbons (ORO) | | | | | | <14.9 | 14.9 | | | | | | |
| Total TPH | | | | | | <14.9 | 14.9 | | | | | | |

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Huns froah

Kelsey Brooks Project Manager



Lea County, New Mexico

Contact:

Project Location:

Certificate of Analysis Summary 592594

Tetra Tech- Midland, Midland, TX Project Name: EOG-Rattlesnake Reuse Pit



Date Received in Lab:Tue Jul-17-18 04:48 pmReport Date:20-JUL-18Project Manager:Kelsey Brooks

| | Lab Id: | 592594-0 | 19 | 592594-0 | 20 | 592594-0 | 21 | | |
|-----------------------------------|------------|-------------|------|--------------|------|--------------|------|--|--|
| Analysis Requested | Field Id: | T-13 (6 |) | T-13 (8) |) | T-13 (10 | ') | | |
| Analysis Kequestea | Depth: | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | | |
| | Sampled: | Jul-17-18 0 | 0:00 | Jul-17-18 0 | 0:00 | Jul-17-18 0 | 0:00 | | |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Jul-19-18 1 | 6:00 | Jul-19-18 1 | 5:00 | Jul-19-18 1 | 6:00 | | |
| | Analyzed: | Jul-19-18 1 | 9:52 | Jul-19-18 19 | 9:57 | Jul-19-18 20 | 0:03 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Chloride | | 12.1 | 5.02 | < 5.00 | 5.00 | < 5.01 | 5.01 | | |

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.

Huns Roah

Kelsey Brooks 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.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

| SMP Clie | ent Sample | BLK | Method Blank | |
|----------|---|-----------|----------------------------|---------------------------------|
| BKS/LCS | S Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labo | ratory 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



Project Name: EOG-Rattlesnake Reuse Pit

| | ders : 592594 #: 3056801 | Sample: 592594-001 / SMP | Batc | Project ID h: 1 Matrix | | | |
|--------------|------------------------------------|--------------------------------------|------------------------|---------------------------|-----------------------|-------------------------|----------|
| Units: | mg/kg | Date Analyzed: 07/18/18 09:53 | st | JRROGATE R | ECOVERY | STUDY | |
| | BTEX | by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluoro | obenzene | | 0.0259 | 0.0300 | 86 | 70-130 | |
| 4-Bromoflue | orobenzene | | 0.0284 | 0.0300 | 95 | 70-130 | |
| Lab Batch | #: 3056801 | Sample: 592594-008 / SMP | Batc | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 07/18/18 10:11 | st | JRROGATE R | ECOVERY S | STUDY | |
| | | by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | | | 0.0241 | 0.0300 | 80 | 70-130 | |
| 4-Bromoflue | | | 0.0244 | 0.0300 | 81 | 70-130 | |
| | #: 3056801 | Sample: 592594-015 / SMP | Batc | | | 10 100 | |
| Units: | mg/kg | Date Analyzed: 07/18/18 10:29 | su | JRROGATE R | ECOVERY | STUDY | |
| | BTEX | by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage |
| | | Analytes | | | [D] | | |
| 1,4-Difluoro | obenzene | | 0.0221 | 0.0300 | 74 | 70-130 | |
| 4-Bromoflue | orobenzene | | 0.0254 | 0.0300 | 85 | 70-130 | |
| Lab Batch | #: 3057120 | Sample: 592594-001 / SMP | Batc | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 07/19/18 15:49 | st | JRROGATE R | ECOVERY S | STUDY | |
| | | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | | | 98.0 | 99.8 | 98 | 70-135 | |
| o-Terphenyl | | | 51.0 | 49.9 | 102 | 70-135 | |
| | #: 3057120 | Sample: 592594-008 / SMP | Batc | | | | <u> </u> |
| Units: | mg/kg | Date Analyzed: 07/19/18 16:09 | SU | JRROGATE R | ECOVERY S | STUDY | |
| | ТРН В | Sy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flag |
| | | Analytes | | | [D] | | |
| 1-Chlorooct | ane | | 97.0 | 99.9 | 97 | 70-135 | |
| o-Terphenyl | | | 49.9 | 50.0 | 100 | 70-135 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: EOG-Rattlesnake Reuse Pit

| Lab Batch #: | 305/120 | Sample: 592594-015 / SMP | Batc | h: 1 Matrix | : 5011 | | |
|----------------|---------|--------------------------------------|------------------------|-----------------------|-----------------------|---|-------|
| U nits: | mg/kg | Date Analyzed: 07/19/18 16:29 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH F | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage |
| | | Analytes | | | [D] | | |
| 1-Chlorooctane | ; | | 98.0 | 99.6 | 98 | 70-135 | |
| o-Terphenyl | | | 50.7 | 49.8 | 102 | 70-135 | |
| Lab Batch #: | 3056801 | Sample: 7658578-1-BLK / B | LK Bate | h: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 07/18/18 03:39 | SU | RROGATE R | ECOVERYS | STUDY | |
| | | A by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1.4-Difluorobe | | Anaryus | 0.0304 | 0.0300 | 101 | 70-130 | |
| 4-Bromofluoro | | | 0.0304 | 0.0300 | 101 | 70-130 | |
| Lab Batch #: | | Sample: 7658750-1-BLK / B | | | | , 0 150 | |
| Units: | mg/kg | Date Analyzed: 07/19/18 12:49 | | RROGATE R | | STUDY | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | [] | [2] | [D] | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| 1-Chlorooctane | | | 94.9 | 100 | 95 | 70-135 | |
| o-Terphenyl | | | 50.3 | 50.0 | 101 | 70-135 | |
| Lab Batch #: | 3056801 | Sample: 7658578-1-BKS / B | KS Bate | h: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 07/18/18 02:10 | SU | RROGATE R | ECOVERYS | STUDY | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluorobe | nzene | | 0.0270 | 0.0300 | 90 | 70-130 | |
| 4-Bromofluoro | benzene | | 0.0313 | 0.0300 | 104 | 70-130 | |
| Lab Batch #: | 3057120 | Sample: 7658750-1-BKS / B | KS Bate | h: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 07/19/18 13:08 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage |
| | | Analytes | പ്ര | [1] | [D] | 701 | |
| 1-Chlorooctane | | - | 122 | 100 | 122 | 70-135 | |
| o-Terphenyl | | | 56.5 | 50.0 | 113 | 70-135 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: EOG-Rattlesnake Reuse Pit

| Units: | mg/kg | Date Analyzed: 07/18/18 02:28 | CT. | | FCOVEDV | | | | | | |
|--------------|------------|--------------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|--|
| onnes. | mg/kg | | SL | JRROGATE R | ECOVERY | STUDY | | | | | |
| | BTEX | 5 by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | |
| | | Analytes | | | [D] | | | | | | |
| 1,4-Difluor | benzene | | 0.0288 | 0.0300 | 96 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0303 | 0.0300 | 101 | 70-130 | | | | | |
| Lab Batch | #: 3057120 | Sample: 7658750-1-BSD / BS | D Batc | h: 1 Matrix | : Solid | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/19/18 13:28 | SU | RROGATE R | ECOVERY S | STUDY | | | | | |
| | | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | | Analytes | 102 | 100 | | 70.125 | | | | | |
| o-Terpheny | | | 123 | 100 | 123 | 70-135 | | | | | |
| 1 2 | #: 3056801 | Sample: 592472-001 S / MS | 57.1 Bate | 50.0 h: 1 Matrix | 114 | 70-135 | | | | | |
| | | • | | | | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/18/18 02:46 | SU | RROGATE R | ECOVERY | STUDY | | | | | |
| | BTEX | L by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | |
| | | Analytes | | | [D] | | | | | | |
| 1,4-Difluoro | obenzene | | 0.0309 | 0.0300 | 103 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0220 | 0.0300 | | | | | | | |
| Lab Batch | #: 3057120 | Sample: 592471-001 S / MS | Batc | h: 1 Matrix | : Soil | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/19/18 14:09 | SU | RROGATE R | ECOVERY S | STUDY | | | | | |
| | | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | ane | | 124 | 99.8 | 124 | 70-135 | | | | | |
| o-Terpheny | | | 55.9 | 49.9 | 112 | 70-135 | | | | | |
| Lab Batch | #: 3056801 | Sample: 592472-001 SD / MS | D Bate | h: 1 Matrix | : Soil | 1 | | | | | |
| Units: | mg/kg | Date Analyzed: 07/18/18 03:04 | SU | RROGATE R | ECOVERY | STUDY | | | | | |
| | BTEX | t by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flage | | | | |
| | | Analytes | | | [D] | | | | | | |
| 1,4-Difluor | obenzene | | 0.0292 | 0.0300 | 97 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 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



Project Name: EOG-Rattlesnake Reuse Pit

| | orders : 592594 h #: 3057120 mg/kg | 4, Sample: 592471-001 SD / N Date Analyzed: 07/19/18 14:29 | | Project ID: n: 1 Matrix: RROGATE RI | Soil | | |
|------------|--|--|------------------------|---|-----------------------|-------------------------|-------|
| | | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorood | ctane | | 125 | 100 | 125 | 70-135 | |
| o-Terphen | yl | | 59.2 | 50.0 | 118 | 70-135 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



BS / BSD Recoveries



Project Name: EOG-Rattlesnake Reuse Pit

| Work Order | #: 592594 | Project ID: 212C-MD-01300 | | | | | | | | | | |
|-----------------|--|----------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|------------|-------------------------|---------------------------|------|
| Analyst: | ALJ | D | ate Prepar | red: 07/17/201 | 8 | | | Date A | nalyzed: (| 07/18/2018 | | |
| Lab Batch ID: | : 3056801 Sample: 7658578- | 1-BKS | Bate | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: | mg/kg | | BLAN | K /BLANK S | SPIKE / I | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | ΟY | |
| | BTEX by EPA 8021B | Blank Sample Result [A] | Spike Added | Blank Spike Result | Blank Spike %R | Spike Added | Blank Spike Duplicate | Blk. Spk Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analy | rtes | | [B] | [C] | [D] | [E] | Result [F] | [G] | | | | |
| Benzene | | < 0.00200 | 0.0998 | 0.0944 | 95 | 0.100 | 0.110 | 110 | 15 | 70-130 | 35 | |
| Toluene | | < 0.00200 | 0.0998 | 0.0972 | 97 | 0.100 | 0.106 | 106 | 9 | 70-130 | 35 | |
| Ethylbenze | ene | < 0.00200 | 0.0998 | 0.0942 | 94 | 0.100 | 0.103 | 103 | 9 | 70-130 | 35 | |
| m,p-Xylen | les | < 0.00399 | 0.200 | 0.195 | 98 | 0.201 | 0.212 | 105 | 8 | 70-130 | 35 | |
| o-Xylene | | < 0.00200 | 0.0998 | 0.0908 | 91 | 0.100 | 0.0994 | 99 | 9 | 70-130 | 35 | |
| Analyst: | SCM | D | ate Prepar | red: 07/18/201 | 8 | • | | Date A | nalyzed: (| 07/18/2018 | | |
| Lab Batch ID: | : 3056961 Sample: 7658662- | 1-BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: | mg/kg | | BLAN | K /BLANK | SPIKE / I | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | ΟY | |
| Inorga Analy | anic Anions by EPA 300/300.1 /tes | 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 | 251 | 100 | 250 | 250 | 100 | 0 | 90-110 | 20 | |

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: EOG-Rattlesnake Reuse Pit

| Work Orde | er #: 592594 | | | | | | Project ID: 212C-MD-01300 | | | | | | | |
|---------------------------------------|---|---------------------------------|----------------------------------|--|-----------------------------------|----------------------------------|--|----------------------------------|------------------------|--|---------------------------------|------|--|--|
| Analyst: | SCM | D | ate Preparo | ed: 07/19/201 | 18 | | | Date A | nalyzed: (| 07/19/2018 | | | | |
| Lab Batch II | Sample: 7658719- | -BKS | Batch | 1 #: 1 | | | | | Matrix: S | Solid | | | | |
| Units: | mg/kg | | BLAN | K/BLANK S | SPIKE /] | BLANK | SPIKE DUP | LICATE | RECOV | ERY STUI | ΟY | | | |
| | ganic Anions by EPA 300/300.1 | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag | | |
| Chloride | • | .5.00 | | | | | | | 0 | 00.110 | 20 | | | |
| Chioride | | < 5.00 | 250 | 252 | 101 | 250 | 252 | 101 | 0 | 90-110 | 20 | 1 | | |
| · · · · · · · · · · · · · · · · · · · | | | L | | - | | 1 | | | + | + | + | | |
| Analyst: | ARM | Da | ate Prepare | ed: 07/19/201 | 18 | ł | | Date A | nalyzed: (| 07/19/2018 | | | | |
| Analyst: Lab Batch II | | | ate Prepare Batch | | 18 | | | | nalyzed:(Matrix: S | | • | | | |
| - | | | Batch | | | BLANK | SPIKE DUP | | Matrix: S | Solid |)Y | | | |
| Lab Batch II | D: 3057120 Sample: 7658750- mg/kg TPH By SW8015 Mod | | Batch | n#: 1 | | BLANK S Spike Added [E] | SPIKE DUP Blank Spike Duplicate Result [F] | | Matrix: S | Solid | DY Control Limits %RPD | Flag | | |
| Lab Batch II Units: Anal | D: 3057120 Sample: 7658750- mg/kg TPH By SW8015 Mod | I-BKS Blank Sample Result | Batch BLANI Spike Added | n #: 1 K /BLANK S Blank Spike Result | SPIKE /] Blank Spike %R | Spike Added | Blank Spike Duplicate | LICATE Blk. Spk Dup. %R | Matrix: S RECOV | Solid ERY STUE Control Limits | Control Limits | Flag | | |

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 # : | 592594 | | | | | | Project II |): 212C-1 | MD-0130 | C | | |
|-------------------------|-----------------------------|----------------------------|----------------|--------------------------------|------------------------|----------------|--|----------------------|----------|-------------------------|---|------|
| Lab Batch ID: | 3056801 | QC- Sample ID: | 592472 | -001 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/18/2018 | Date Prepared: | 07/17/2 | 018 | An | alyst: A | ALJ | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| | BTEX by EPA 8021B | Parent Sample Result | Spike Added | Spiked Sample Result [C] | Spiked Sample %R | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| | Analytes | [A] | [B] | [0] | [D] | [E] | | [G] | ,,, | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Benzene | | < 0.00199 | 0.0996 | 0.0740 | 74 | 0.100 | 0.0723 | 72 | 2 | 70-130 | 35 | |
| Toluene | | < 0.00199 | 0.0996 | 0.0693 | 70 | 0.100 | 0.0777 | 78 | 11 | 70-130 | 35 | |
| Ethylbenzene | | < 0.00199 | 0.0996 | 0.0660 | 66 | 0.100 | 0.0651 | 65 | 1 | 70-130 | 35 | X |
| m,p-Xylenes | | < 0.00398 | 0.199 | 0.136 | 68 | 0.200 | 0.136 | 68 | 0 | 70-130 | 35 | X |
| o-Xylene | | < 0.00199 | 0.0996 | 0.0642 | 64 | 0.100 | 0.0658 | 66 | 2 | 70-130 | 35 | X |
| Lab Batch ID: | 3056961 | QC- Sample ID: | 592018 | -006 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/18/2018 | Date Prepared: | 07/18/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| Inorgai | nic Anions by EPA 300/300.1 | Parent Sample Result | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits %R | Control Limits | Flag |
| | Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %K | %RPD | |
| Chloride | | 282 | 250 | 532 | 100 | 250 | 522 | 96 | 2 | 90-110 | 20 | |
| Lab Batch ID: | 3056961 | QC- Sample ID: | 592472 | -001 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/18/2018 | Date Prepared: | 07/18/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| Inorgai | nic Anions by EPA 300/300.1 | Parent Sample Result | Spike Added | Spiked Sample Result [C] | Spiked Sample %R | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| | Analytes | [A] | [B] | r., | [D] | [E] | | [G] | | | | |
| Chloride | | 83.3 | 248 | 334 | 101 | 248 | 334 | 101 | 0 | 90-110 | 20 | |

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD = $200^{\circ}|(C-F)/(C+F)|$ 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 # : | 592594 | | | | | | Project II |): 212C-1 | MD-0130 | 0 | | |
|-------------------------|------------------------------|----------------------------|--------------|-------------------------|-----------|--------------|----------------------------|------------------|---------|-------------------|-------------------|------|
| Lab Batch ID: | 3057083 | QC- Sample ID: | 592594 | -004 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/19/2018 | Date Prepared: | 07/19/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA' | TE REC | OVERY | STUDY | | |
| Inorga | nnic Anions by EPA 300/300.1 | Parent Sample | Spike | Spiked Sample Result | Sample | | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Chloride | | 118 | 252 | 360 | 96 | 252 | 361 | 96 | 0 | 90-110 | 20 | |
| Lab Batch ID: | 3057083 | QC- Sample ID: | 592594 | -014 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/19/2018 | Date Prepared: | 07/19/2 | 018 | An | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA' | TE REC | OVERY | STUDY | | |
| Inorga | nnic Anions by EPA 300/300.1 | Parent Sample Result | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Chloride | | 12.4 | 248 | 253 | 97 | 248 | 259 | 99 | 2 | 90-110 | 20 | |
| Lab Batch ID: | 3057120 | QC- Sample ID: | 592471 | -001 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: | 07/19/2018 | Date Prepared: | 07/19/2 | 018 | An | alyst: A | ARM | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA' | TE REC | OVERY | STUDY | | |
| | TPH By SW8015 Mod | Parent Sample | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Gasoline Rang | e Hydrocarbons (GRO) | <15.0 | 998 | 912 | 91 | 1000 | 923 | 92 | 1 | 70-135 | 20 | |
| Diesel Range (| Organics (DRO) | <15.0 | 998 | 941 | 94 | 1000 | 957 | 96 | 2 | 70-135 | 20 | |

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative 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.

| | Relinquished by: | | Relinquished by: | All Martiney by | | | | | | | | | | | LAB USE | LAB # | | Comments: | Receiving Laboratory: | Invoice to: | Project Location: (county, state) | Project Name: | CHERT NAME; | æ | Analysis Re |
|-------------------------------|--------------------------------------|-------------------------|------------------|----------------------|-----------|-----------|-------------|------------|-----------|-----------|-----------|-----------|-----------|-------------|---------------------------------|-----------------------|------------------------|--|---------------------------------|-------------|--------------------------------------|-----------------------|----------------|---|---|
| | Date: | | . · Date: | End Cagnyinn 7-(7 | T-12 (2') | T-12 (1') | T-12 (0-1') | T-11 (10') | T-11 (8') | T-11 (6') | T-11 (4') | T-11 (2') | T-11 (1') | T-11 (0-1') | | SAMPLE IDENTIFICATION | | Run deeper samples if benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper samples 1,000 mg/kg. | ^{atory:} Xenco Labs | | Lea County, New Mexico | Rattlesnake Reuse Pit | EOG | Tetra Tech. | Analysis Request of Chain of Custody Record |
| | Time: | | Time: | -11me: -(8 646 | | | | | | | | | | | | ION | | ds 10 mg/kg or total B | | | | | | ch. Inc. | |
| ORIGINAL COPY | Received by: | | Received by: | Record oy: | | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | DATE | YEAR: 2018 | SAMPLING | TEX exceeds | Sampler Signature: | | Project #: | | Site Manager: | | |
| CUPY | | | | June | | | | | | | | | | | TIME WATEF | 2 | | 50 mg/kg. Ru | ure: | | | | Q | | |
| | Date: | | Date | | × | × | × | × | × | × | × | × | × | × | SOIL | | MATRIX | ın deeper s | Mike Car | | 212C-MD-01300 | | Clair Gonzales | 4000 N. Big Spring Street, S 401 Midland, Texas 7970 Tel (432) 682-4559 Fax (432) 682-3946 | |
| | te: Time: | | | 471/8 | × | × | × | × | X | X | × | X | × | × | HNO ₃ ICE None | | PRESERVATIVE METHOD | | Carmona | | 01300 | | les | ring Street, Ste ,Texas 79705 682-4559 682-3946 | |
| | | | | lluve | 1 N | 1 N | 1 N | 1 N | 1 N | 1 N | 1 N | 1 N | 1 N | -1 Z | # CONT/ | | ERS | if TPH exceeds | | | | | | | いい |
| নি | | | p . | C | | | × | | | | | | | × | FILTERE | | | X 8260 | В | | | | | | 14 |
| (Circle) HAND DELIVERED FEDEX | Ŧ | 4,2/20 | amnie T | ٥Ş | E | | × | | | | | | | | TPH TX1 TPH 801 | 005 | (Ext to | C35) | | | | | | | 17 |
| AND | | | | NNCY NNCY EVAN | E | | | | | | | | | | PAH 827 | '0C | | | | | | | 5 | | 2 |
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| | eport | rges / | RUSH: Same Day | s: STANDARD | | | | | | | | | | | PCB's 80 NORM |)82 / | 608 | | | | | | REQUEST | | |
| Tracking #: | Limits | Rush Charges Authorized | | | | | | | | | | | | | PLM (Ast | pesto | os) | | | ····· | | | EST | | Page |
| * | or TR | ized | 24 hr | | Ě | × | × | × | × | × | × | × | × | × | Chloride Chloride | S | Sulfate | TDS | | | | | 2 | | Ō |
| | Special Report Limits or TRRP Report | | 48 hr | | | | | | | | | | | | General Anion/Ca | | | | see atta | iched l | ist) | | - | | |
| | port | | r 72 hr | | | | | | | | | | | | | | | | | | | | | | _1 0f |
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オクシノン -

| | | Relinquished by: | neiniquisried by: | Mothe | Relinguished by: | | | | | | 1 | | | | | (LAB USE) | LAB # | | | | Invoice to: | Project Location: state) | 2 | Project Name: | Client Name: | (H) | Analysis Rec |
|---------------|--------------------------------------|-------------------------|--------------------|------------------------|---------------------------|--------------------|-----------|-----------|-----------|-----------|-------------|------------|-----------|-----------|-----------|---------------------------------|-----------------------|------------------------|--|--------------------|-------------|---------------------------------|-----------------------|------------------|---------------|---|---|
| | | Date: Time: | Juate: Time: | W JABANY IN 77774 Call | I-13 (10') Date: Time: | 1-13 (8') | T-13 (6') | T-13 (4') | T-13 (2') | F-13 (1') | T-13 (0-1') | F-12 (10') | T-12 (8') | T-12 (6') | T-12 (4') | | SAMPLE IDENTIFICATION | | Run deeper samples if benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper samples if TPI 1,000 mg/kg. | ary: Xenco Labs | | (county, Lea County, New Mexico | Rattlesnake Reuse Pit | ECG | п ЭЭЭ | Tetra Tech, Inc. | Analysis Request of Chain of Custody Record |
| ORIGINAL COPY | | Received by: | Received by: | Ļ | | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | 7/17/2018 | DATE | YEAR: 2018 | SAMPLING | BTEX exceeds 50 m | Sampler Signature: | | Project #: | | | Site Manager: | | |
| PΥ | | · • | | K | × | | | × | × | × | × | | × | × | | TIME WATEF SOIL | 2 | | g/kg. Run de | ~ | | NJ | | Clai | | | |
| | | Date: | (Date: | $\frac{1}{2}$ | | | | | | | | | | | | HCL | | MATRIX | eeper sam | Mike Carmona | | 212C-MD-01300 | | Clair Gonzales | | 4000 N. Big Spring Street, Ste 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 | |
| | | Time: | Time: | //8/ / | × | × | × | × | × | × | × | × | × | × | × | HNO ₃ ICE None | | PRESERVATIVE METHOD | oles if TPH | ona | | 01300 | | ŝ | | ig Street, Ste exas 79705 12-4559 12-3946 | |
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| (Circle) t | | 1 | Sample Temperature | LAB USE ONLY | | | | | | | × | | | | | TPH TX1 TPH 801 | | | · · · · | | | | | | | | C7 |
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| FEDEX | | Ц | Г | REMARKS: | Н | | | | | | | _ | | | | TCLP Ser RCI | mi Vc | olatiles | | | | | | ξ Ă | | | |
| X UPS | vecial | ush C | JSH: | ST S | | | | | | | | | | | _ | GC/MS V | | | | · | | | | SIS, | | | 7 |
| | Repo | harge | RUSH: Same Day | 3: STANDARD | \vdash | $\left - \right $ | | - | - | | - | - | | | | GC/MS Se PCB's 80 | | | 270C/625 | 5 | | | | ANALYSIS REQUEST | | | |
| Tracking #: | r Lim | s Autl | e Day | ARD | | | | | | | | | | | | NORM | | | | | | | | DEX | | | |
| g#: | Special Report Limits or TRRP Report | Rush Charges Authorized | / 24 hr | - | × | × | × | \times | × | × | × | × | × | × | | PLM (Asb Chloride | estos | 5) | | | | | | | | | Page |
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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 07/17/2018 04:48:00 PM Temperature Measuring device used : R8 Work Order #: 592594 Comments Sample Receipt Checklist 4.2 #1 *Temperature of cooler(s)? #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#:

Date: 07/17/2018

Checklist completed by: Ballo Tal Brianna Teel Checklist reviewed by: Many Moah Kelsev Brooks

Date: 07/19/2018