SITE INFORMATION

| | Rep | ort Type: | Closure Reque | est | 1RP-5001 | | |
|-------------------|-------------------|-------------------|---------------------------|----------------|----------------------------|-----------------|--|
| General Site Info | ormation: | | | | | | |
| Site: | | Jefe BSJ Fed | Com #1H | | | | |
| Company: | | EOG Resourc | es, Inc. | | | | |
| Section, Towns | hip and Range | Unit O | Sec. 32 T 2 | 25S | R 32E | | |
| Lease Number: | | API No. 30-02 | 5-40722 | | | | |
| County: | | Lea County | | | | | |
| GPS: | | | 32.080260º N | | 103.6957 | 740° W | |
| Surface Owner: | | State | | | | | |
| Mineral Owner: | | State | | | | | |
| Directions: | | lease road for 1. | 85 mi, turn north for 0.9 | mi, turn | east and continue for 0.75 | mi to location. | |
| Release Data: | | | | | | | |
| Date Released: | | 3/21/2018 | | | | | |
| Type Release: | | Produced Water | | | | | |
| Source of Contar | mination: | Water Line | | | | | |
| Fluid Released: | J. | | | | | | |
| Fluids Recovered | l. | | | | | | |
| | nication: | | | | | | |
| Name: | Jamon Hohensee | | | | Clair Gonzales | | |
| Company: | EOG Resources | | | | Tetra Tech | | |
| Address: | 5509 Champions D | rive | | | 901 West Wall | | |
| | | | | | Suite 100 | | |
| City: | Midland, TX 79706 | | | | Midland, Texas | | |
| Phone number: | (432) 556-8074 | | | (432) 687-8123 | | | |
| Fax: | | | | | | | |
| Email: | Jamon_Hohense | e@eogresource | s.com | | Clair.Gonzales@tetrate | ch.com | |

Ranking Criteria

| Depth to Groundwater: | Ranking Score | Site Data |
|---|-----------------------|-----------|
| <50 ft | 20 | |
| 50-99 ft | 10 | |
| >100 ft. | 0 | 300' + |
| WellHead Protection: | Ranking Score | Site Data |
| Water Source <1,000 ft., Private <200 ft. | 20 | |
| Water Source >1,000 ft., Private >200 ft. | 0 | 0 |
| Surface Body of Water: | Ranking Score | Site Data |
| <200 ft. | 20 | |
| 200 ft - 1,000 ft. | 10 | |
| >1,000 ft. | 0 | 0 |
| Total Ranking Score: | 0 | |
| Ac | ceptable Soil RRAL (m | na/ka) |
| Benze | ene Total BTEX | TPH |
| 10 | 50 | 5,000 |



November 21, 2018

Ms. Christina Hernandez Environmental Engineer Specialist Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Closure Request for the EOG Resources, Jefe BSJ Fed Com #1H, Unit O, Section 32, Township 25 South, Range 32 East, Lea County, New Mexico. 1RP-5001.

Ms. Hernandez:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources, Inc. (EOG) to investigate and assess a release that occurred at the Jefe BSJ Fed Com #1H, Unit O, Section 32, Township 25 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.080260°, W 103.695740°. 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 March 21, 2018, and released approximately seventy-five (75) barrels of produced water due to a ruptured water line. Vacuum trucks were dispatched to remove all freestanding fluids, recovering approximately thirty-five (35) barrels of produced water. The release occurred in the pasture and impacted an area measuring approximately 30' x 155' and 65' x 225'. The initial C-141 form is included in Appendix A.

Groundwater

No wells are listed within Section 32 in the New Mexico Office of the State Engineers (NMOSE) database, the USGS National Water Information System, or the Geology and Groundwater Conditions in Southern Lea County, NM (Report 6). However, the NMOSE database lists one well in Section 6, Township 26 South, Range 32 East, located approximately 1.65 miles southwest of the site, with a reported depth to groundwater of 350' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is greater than 300' 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

 Tetra Tech

 901 West Wall, Suite 100, Midland, TX 79701

 Tel
 432.682.4559
 Fax
 432.682.3946
 www.tetratech.com



Releases, dated August 13, 1993. 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 5,000 mg/kg.

Soil Assessment and Analytical Results

On March 29, 2018, Tetra Tech personnel were on site to evaluate and sample the release area with a backhoe. A total of six (6) sample trenches (T-1 through T-6) were installed in the spill footprint to total depths ranging from 2.0' and 10.0' below surface. Selected samples were analyzed for total petroleum hydrocarbons (TPH) by method 8015 extended, BTEX by method 8021, and chlorides by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix D. The sampling results are summarized in Table 1. The trench locations are shown in Figure 3.

Benzene and Total BTEX

Referring to Table 1, none of the trenches show any benzene or total BTEX concentrations above the RRALs, except trench (T-4). Trench (T-4) showed a benzene concentration of 12.6 mg/kg and a total BTEX concentration of 597 mg/kg at 0-1' below surface. The benzene and total BTEX concentrations in the area then declined with depth to below the RRALs at 2.0' below surface.

<u> TPH</u>

The areas of trenches (T-1 and T-4) did not showed TPH concentrations above the RRAL. The areas of trench (T-2, T-3, T-5, and T-6) showed TPH impact to the shallow soils (0-1'), with TPH highs of 5,710 mg/kg, 10,900 mg/kg, 180,000 mg/kg, and 5,870 mg/kg, respectively. The TPH concentrations declined below the RRAL at 2.0' below surface.

Chloride

The areas of trenches (T-1, T-2, T-3, and T-6) showed elevated chloride concentrations to the shallow soils with concentrations of 4,960 mg/kg, 13,200 mg/kg, 16,600 mg/kg, and 3,960 mg/kg at 0-1' below surface, respectively. The chlorides in these areas then declined with depth to below the 600 mg/kg threshold at depths ranging from 2.0' and 6.0' below surface. However, the areas of trenches (T-4 and T-5) showed bottom trench concentrations of 1,900 mg/kg and 1,930 mg/kg at 4.0' below surface. Deeper samples were not collected due to a dense formation in the area and the chloride impact was not vertically defined.



Remediation Activities

On July 18 through August 3, 2018, Tetra Tech personnel were on site to supervise the excavation and remediation activities. Based on the field screening data performed during the remediation activities, the area of trench (T-1) was excavated to 2.5', the area of trench (T-2) was excavated to 8.0', the area of trench (T-3) was excavated to 4.5', the area of trench (T-4) was excavated to 6.0', the area of trench (T-5) was excavated to 5.5', and the area of trench (T-6) was excavated to 4.0', as shown on Figure 4 and highlighted (green) on Table 1. Sidewall and bottom hole confirmation samples were collected to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and chlorides by EPA method 300.0. The sampling results are summarized in Table 1. The excavation depths and sample locations are shown in Figure 4.

Referring to Table 1, none of the sidewall or bottom hole confirmation samples collected showed TPH, benzene, or total BTEX above the RRALs. Additionally, none of the confirmation samples showed chloride concentrations above 600 mg/kg. The excavated areas were backfilled with clean material to surface grade. Approximately 2,750 cubic yards of excavated material was transported for proper disposal.

Revegetation Plan

The backfilled areas will be seeded in June 2019 in order to coincide with the rainy season in Southeastern New Mexico to aid in revegetation. Based on the soils at the site, the NMSLO Loamy (L) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix C.



Conclusion

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

Respectfully submitted, TETRA TECH

longalos

Clair Gonzales, Project Manager

Mike Carmona Geologist

CC:

Ryan Mann – NMSLO Jamone Hohensee - EOG

Figures







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Tables

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Table 1 EOG Resources El Jefe BSJ Fed. Com. 1H Lea County, New Mexico

| Sample ID | Sample | Sample | BER (ft) | Soil S | Status | | TPH (| mg/kg) | | Benzene | Benzene Toluene | Toluene | ne Ethlybenzene | Xylene | Total BTEX | Chloride |
|----------------|-----------|------------|----------|---------|---------|--------|---------|--------|---------|----------|-----------------|----------|-----------------|----------|------------|----------|
| | Date | Depth (ft) | вев (п) | In-Situ | Removed | GRO | DRO | ORO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | |
| T-1 | 3/29/2018 | 0-1 | - | | Х | <15.0 | 34.3 | <15.0 | 34.3 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 4,960 | |
| | " | 2 | - | | Х | <15.0 | 53.5 | <15.0 | 53.5 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 454 | |
| Bottom Hole #1 | 7/24/2018 | - | 2.5 | Х | | <14.9 | <14.9 | <14.9 | <14.9 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 248 | |
| South Sidewall | 7/24/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.02 | |
| East Sidewall | 7/24/2018 | - | - | Х | | <14.9 | <14.9 | <14.9 | <14.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 10.4 | |
| West Sidewall | 7/30/2018 | - | - | Х | | 16.9 | <15.0 | <15.0 | 16.9 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 7.28 | |
| T-2 | 3/29/2018 | 0-1 | - | | Х | 124 | 4,390 | 1,200 | 5,710 | 0.00714 | 0.0172 | <0.00200 | 0.0133 | 0.0377 | 13,200 | |
| | " | 2 | - | | Х | <14.9 | <14.9 | <14.9 | <14.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 168 | |
| | " | 4 | - | | Х | - | - | - | - | - | - | - | - | - | 1,080 | |
| | " | 6 | - | | X | - | - | - | - | - | - | - | - | - | 1,040 | |
| | " | 8 | - | Ň | X | - | - | - | - | - | - | - | - | - | 346 | |
| | | 10 | - | X | | - | - | - | - | - | - | - | - | - | 60.6 | |
| Bottom Hole #2 | 7/31/2018 | - | 8.0 | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 29.0 | |
| East Sidewall | 7/24/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 170 | |
| West Sidewall | 7/24/2018 | - | - | Х | | <14.9 | <14.9 | <14.9 | <14.9 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 55.4 | |
| T-3 | 3/29/2018 | 0-1 | - | | Х | 84.2 | 8,690 | 2,170 | 10,900 | 0.00279 | 0.0116 | 0.00230 | 0.0191 | 0.0358 | 16,600 | |
| | " | 2 | - | | Х | <15.0 | 25.9 | <15.0 | 88.5 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | 2,110 | |
| | " | 4 | - | | Х | - | - | - | - | - | - | - | - | - | 289 | |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | 82.0 | |
| | II | 8 | - | Х | | - | - | - | - | - | - | - | - | - | 114 | |
| Bottomhole #3 | 7/30/2018 | - | 4.5 | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 324 | |
| North Sidewall | 7/30/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 118 | |
| South Sidewall | 7/24/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 79.2 | |
| East Sidewall | 7/24/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <5.02 | |
| T-4 | 3/29/2018 | 0-1 | - | | Х | 51.4 | 929 | 141 | 1,120 | <0.00200 | 0.00354 | <0.00200 | 0.0642 | 0.0677 | 3,430 | |
| | " | 2 | - | | X | <15.0 | 21.8 | <15.0 | 21.8 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 1,810 | |
| | n | 4 | - | | X | - | - | - | - | - | - | - | - | - | 1,900 | |
| Bottom Hole #4 | 7/31/2018 | - | 6.0 | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 518 | |
| North Sidewall | 7/24/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 452 | |
| South Sidewall | 7/24/2018 | - | - | Х | | <14.9 | <14.9 | <14.9 | <14.9 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | 237 | |
| T-5 | 3/29/2018 | 0-1 | - | | Х | 56,300 | 106,000 | 18,000 | 180,000 | 12.6 | 186 | 43.6 | 355 | 597 | 20,100 | |
| | " | 2 | - | | Х | <15.0 | 22.4 | <15.0 | 22.4 | <0.00200 | 0.00337 | <0.00200 | 0.00672 | 0.0101 | 6,720 | |
| | Ш | 4 | - | | Х | - | - | - | - | - | - | - | - | - | 1,930 | |
| Bottom Hole #5 | 7/31/2018 | - | 5.5 | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 129 | |
| South Sidewall | 7/24/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 291 | |
| North Sidewall | 7/27/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <4.97 | |
| T-6 | 3/29/2018 | 0-1 | - | | Х | 158 | 4,670 | 1,040 | 5,870 | <0.00200 | 0.00388 | 0.00920 | 0.106 | 0.119 | 3,960 | |
| | " | 2 | - | | Х | <15.0 | 72.9 | <15.0 | 72.9 | <0.00199 | <0.00199 | <0.00199 | 0.00685 | 0.00685 | 3,850 | |
| | " | 4 | - | | Х | - | - | - | - | - | - | - | - | - | 2,000 | |
| | " | 6 | - | Х | | - | - | - | - | - | - | - | - | - | 26.7 | |
| Bottom Hole #6 | 7/24/2018 | - | 4.0 | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 46.2 | |
| North Sidewall | 7/27/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 5.69 | |
| South Sidewall | 7/27/2018 | - | - | Х | | <15.0 | <15.0 | <15.0 | <15.0 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <4.95 | |
| West Sidewall | 7/24/2018 | - | - | Х | | 18.7 | <15.0 | <15.0 | 18.7 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <4.95 | |



Not Analyzed

Excavation Depths

BEB Below Excavation Depth

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Photos

EOG Resources El Jefe BSJ Fed Com #1H Lea County, New Mexico



View North- Excavated Area of T-1 and T-2



View South- Excavated – Area of T-2



EOG Resources El Jefe BSJ Fed Com #1H Lea County, New Mexico





View North- Excavated Area of T-3



View Northeast- Excavated Area of T4 and T-3

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EOG Resources El Jefe BSJ Fed Com #1H Lea County, New Mexico



View West- Excavated Area of T-5



View West- Excavated Area of T-6

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Appendix A

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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. Fran | cis Dr., Santa | a Fe, NM 8750 |)5 | Sa | anta I | Fe, NM 875 | 505 | | | | | | |
|---|---|--|--|---|--|---|--|---|---|---|--|--|----------|
| | | | Rele | ase Notific | catio | on and Co | orrective A | ctio | n | | | | |
| | | | | | | OPERA | FOR | | 🖂 Initi | al Report | П | Final | Report |
| Name of Co | mpany EC | OG Resourc | es, Inc | | | Contact Jan | non Hohensee | | | | | | |
| Address 55 | 09 Champi | ions Drive, | Midland, | Texas 79706 | | Telephone | No. 432-556-80 | 74 | | | | | |
| Facility Nat | ne: Jefe B | SJ Fed Com | n IH | | | Facility Typ | e: Production f | acility | | | | | |
| Surface Ou | nerlei | | | Nimila | | | | - | Linni | | | | - |
| Surface Ow | Stat | е | | Mineral | Jwner | State | | - 11 - 11 - 1 - 1 | APING | | 25-40 | 722 | |
| TT-14 T-14 | | | 1 | LOCA | ATIC | ON OF RE | LEASE | | | | | | |
| Onit Letter | Section 32 | Township 25S | Range 32E | Feet from the | Nort | h/South Line | Feet from the | East/ | West Line | County | | | |
| | | La | atitude | 32.0806 | | Longitude | e103.69 | 959 | | L | | | |
| | | | | NAT | URI | E OF REL | EASE | | | | | | |
| Type of Rele | ase PW flow | wline break | | | | Volume of | Release 75bbls | | Volume F | Recovered 3 | Sbbls | | |
| Source of Re | lease PW fl | lowline | | | | 3/21/18 3: | 30PM | | 3/21/18 | | | | |
| Was Immedi | ate Notice (| Given? |]Yes 🛛 | No 🗌 Not R | equired | If YES, To | Whom? | | ÷ | | | | |
| By Whom? | | | | | | Date and H | Iour | | | | | | |
| Was a Water | course Read | ched? |]Yes 🛛 | No | | If YES, V | olume Impacting t | the Wa | tercourse. | | | | |
| Describe Can On 3/21/18 a consultant w impacted soi Describe Are Site is desert | use of Proble produced v ill go out an I and proper a Affected scrub with | em and Rema water line bur ad delineate s rly remove ar and Cleanup no water ider | edial Action rst and relea pill area an ad dispose of Action Tak ntified. Vac | n Taken.* ised approx. 75bb d collect samples of impacted soil. 7 en.* uum trucks remo | ol to the . Samp Then a ved fre | e area 40ft wes oles will be ana rea will be bac | t of the pad locati lyzed and a work kfilled with clean | ion. 35b plan w materi | bbls of fluid ill be submit al to normal | was recover tted to go ou grade. | ed. 3`d t and e: | party ccavate | |
| I hereby certi regulations a public health should their or the enviro federal, state | ify that the i Il operators or the envir operations h nment. In a , or local law | information g are required ronment. Th lave failed to iddition, NM ⁴ ws and/or reg | given above to report an e acceptanc adequately OCD accep gulations. | is true and comp d/or file certain r e of a C-141 repo investigate and r tance of a C-141 | elease ort by t remedia report | the best of my notifications a he NMOCD m ate contaminati does not reliev | knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of | indersta ctive ac (eport" reat to g respon: | and that purs tions for rele does not reli ground water sibility for co | evant to NM eases which eve the open surface wa ompliance w | OCD ru may en rator of ter, hur vith any | les and danger liability nan hea other | / lth |
| Signature: | Sa | H.L | | | | | OIL CON | SERV | VATION | DIVISIC | <u>DN</u> | | |
| Printed Name | e: Jamon Ho | ohensee | | | | Approved by | Environmental S | peciali | st: | | | | |
| Title: Enviro | nmental Rej | presentative | | | | Approval Da | a; 3/28/201 | 8 | Expiration | Date: | | | |
| E-mail Addre | ess: jamon_l | hohensee@ee | ogresources | .com | | Conditions o | f Approval: | | | Attached | | | |
| Date: | 3/27/ | 18 | | Phone:43255680 | 074 | see attac | ched directiv | ve | | | | | |
| Attach Addi | tional Shee | ets If Necess | sarv | | | | | | | | | | 0.000 |

1RP-5001

nOY1808740822

pOY1808741062

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _3/27/2018_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-5001_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _4/28/2018_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

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Appendix B

Form C-141 Page 3 State of New Mexico Oil Conservation Division

| Incident ID | 1RP-5001 |
|----------------|----------|
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

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

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

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

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

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

Received by OCD: 10/14/2021 3:18:08 PM

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| Form C-141 | State of New Mexico | | Incident ID | 1RP-5001 |
|---|--|---|---|---|
| Page 4 | Oil Conservation Division | | District RP | |
| | | | Facility ID | |
| | | | Application ID | |
| I hereby certify that the intregulations all operators at public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Som | Formation given above is true and complete to the e required to report and/or file certain release not nment. The acceptance of a C-141 report by the igate and remediate contamination that pose a thr of a C-141 report does not relieve the operator of nor Hohenset C I. J hohenset Quegas cosources. Com | best of my knowledge a ifications and perform c OCD does not relieve th eat to groundwater, surfa f responsibility for comp | and understand that purport orrective actions for rel e operator of liability sh ace water, human health liance with any other for or Rep. 29 - 556 - 8074 | suant to OCD rules and eases which may endanger nould their operations have n or the environment. In ederal, state, or local laws |
| OCD Only Received by: | | Date: | | |
| | | | | |

Received by OCD: 10/14/2021 3:18:08 PM

Form C-141 Page 6 State of New Mexico Oil Conservation Division

| Incident ID | 1RP-5001 |
|-----------------|----------|
| District RP | |
| Facility ID | |
| Application ID | |

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

| Printed Name: Jamon Hohensez Title: | Enviro. Rep. |
|---|---|
| Signature: <u>for A.L.</u> Date: | 1-3-19 |
| email: jamon_hohenser@eogresources. Telephon | ne: <u>432-556-8074</u> |
| | |
| | |
| | |
| Received by: <u>OCD</u> I | Date: 10/14/2021 |
| Closure approval by the OCD does not relieve the responsible party of liabilit remediate contamination that poses a threat to groundwater, surface water, hur party of compliance with any other federal, state, or local laws and/or regulat | y should their operations have failed to adequately investigate and nan health, or the environment nor does not relieve the responsible ions. |
| Closure Approved by: Ashley Maxwell | Date:9/13/2022 |
| Printed Name: Ashley Maxwell | Title: |

Water Well Data Average Depth to Groundwater (ft) EOG - Jefe BSJ Fed Com 1H Lea County, New Mexico

| | 24 S | outh | : | 31 East | : |
|----|--------------|--------|----|-------------|--------------|
| 6 | 5 | 4 | 3 | 2 | 1 |
| | 1 | Maljam | ar | 1 92 | |
| 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 |
| | 25 S | outh | : | 31 East | : |
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 390 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |
| | 26 S | outh | | 31 East | : |
| 6 | 5 | 4 | 3 | 2 | 1 335 |
| | | | | | 287 |
| 7 | 8 295 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 24 | 22 | 22 | 24 | 25 | 26 |

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

| | 25 So | outh | 32 | East | |
|----|------------|------|----|------|----|
| 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 Site | 33 | 34 | 35 | 36 |

| | 26 So | outh | 32 | 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 | | | |

| | 24 Sc | outh | 33 | East | |
|----|-------|------------|-------------------|------------------|------------|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 24.6 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 208 | 24 16.9 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 93.2 | 34 | 35 | 36 |

| | 25 Sc | outh | 33 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 So | outh | 33 East | | | | | | |
|----|-------|------|---------|-----|-----|--|--|--|--|
| 6 | 5 | 4 | 3 | 2 | 1 | | | | |
| 7 | 0 | 0 | 1/5 | 4.4 | 40 | | | | |
| 1 | 8 | 9 | 10 | 11 | 12 | | | | |
| | | | | 145 | 200 | | | | |
| 18 | 17 | 16 | 15 | 14 | 13 | | | | |
| | | | | 135 | | | | | |
| 19 | 20 | 21 | 22 | 23 | 24 | | | | |
| | | 120 | | | | | | | |
| 30 | 29 | 28 | 27 | 26 | 25 | | | | |
| | | | 125 | | | | | | |
| 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)

L

- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- 143 NMOCD Groundwater map well location

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

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

No records found.

| PLSS Search | : | | |
|-------------|-----|--------|-----|
| Township: | 258 | Range: | 32E |

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. WATER COLUMN/ AVERAGE

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DEPTH TO WATER

_

| No State P | Wat | No ter | ew M Col | lex U | ci n | ca N | o (n/ | Offi A | ice d ver | of the age | State E Dept | ngineer h to W | ate | r |
|---|---|--------------------------|-------------|------------------|----------------|--------------|-------------|-------------------|-------------------|----------------|------------------|-------------------|---------------|-------|
| (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) | has been ned, e is | (qu (qu | iarter iarter | rs a: rs a: | re 1 re s | =NV mall | V 2=N est to l | E 3=SW argest) | 4=SE) (NAD8 | 3 UTM in meters |) (In | feet) | |
| | | POD | | | ~ | ~ | | | | | | | | |
| POD Number | Code | Sub- basin | County | Q 64 | Q 16 | Q A | Sec | Twe | Rna | v | v | DonthWollDonth | W Water Cu | Vater |
| <u>C 02271</u> | R | CUB | LE | 04 | 2 | 3 | 21 | 26S | 32E | 624449 | 3544111* | 150 | 125 | 25 |
| <u>C 02271 POD2</u> | | CUB | LE | 3 | 2 | 3 | 21 | 26S | 32E | 624348 | 3544010* 🌍 | 270 | 250 | 20 |
| <u>C 02274</u> | | CUB | LE | 2 | 1 | 2 | 31 | 26S | 32E | 621742 | 3541730* 🌍 | 300 | 295 | 5 |
| <u>C 02323</u> | | С | LE | 3 | 2 | 3 | 21 | 26S | 32E | 624348 | 3544010* 🌍 | 405 | 405 | 0 |
| <u>C 03537 POD1</u> | | CUB | LE | 3 | 2 | 3 | 21 | 26S | 32E | 624250 | 3543985 🌍 | 850 | | |
| <u>C 03595 POD1</u> | | CUB | LE | 4 | 2 | 3 | 21 | 26S | 32E | 624423 | 3544045 🌍 | 280 | 180 | 100 |
| <u>C 03829 POD1</u> | | CUB | LE | 3 | 3 | 1 | 06 | 26S | 32E | 620628 | 3549186 🌍 | 646 | 350 | 296 |
| | | | | | | | | | | | Average Depth to | Water: | 267 fee | et |
| | | | | | | | | | | | Minimu | m Depth: | 125 fee | et |
| | | | | | | | | | | | Maximur | n Depth: | 405 fee | et |
| Record Count: 7 | | | | | | | | | | | | | | |
| PLSS Search: | | | | | | | | | | | | | | |
| Township: 26S | Range: | 32E | | | | | | | | | | | | |
| *UTM location was derived f | rom PLSS - s | 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.

4/24/18 12:57 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico NFHL Data





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

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

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Appendix C

Lea County, New Mexico

PT—Pyote loamy fine sand

Map Unit Setting

National map unit symbol: dmqp Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 200 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Pyote and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 25 inches: loamy fine sand Bt - 25 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Gypsum, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s *Hydrologic Soil Group:* A *Ecological site:* Loamy Sand (R042XC003NM) *Hydric soil rating:* No

Minor Components

Maljamar

Percent of map unit: 8 percent Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Palomas

Percent of map unit: 7 percent Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 14, Sep 10, 2017



LOAMY (L) SITES SEED MIXTURE:

| COMMON NAME | VARIETY | APPLICATION RATE (PLS/Acre) | DRILL BOX | |
|------------------------|--------------------|--------------------------------|--------------|--|
| Grasses: | | | | |
| Black grama | VNS. Southern | 1.0 | D | |
| Blue grama | Lovington | 1.0 | D | |
| Sideoats grama | Vaughn, El Reno | 4.0 | F | |
| Sand dropseed | VNS, Southern | 2.0 | ŝ | |
| Alkali sacaton | VNS, Southern | 1.0 | - | |
| Little bluestem | Cimarron, Pastura | 1.5 | F | |
| Forbs: | | | | |
| Firewheel (Gaillardia) | VNS, Southern | 1.0 | D | |
| Shrubs: | | | | |
| Fourwing saltbush | Marana, Santa Rita | 1.0 | Ð | |
| Common winterfat | VNS, Southern | 0.5 | F | |
| | Total PLS/acre | 18.0 | | |

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



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Appendix D

Analytical Report 581006

for Tetra Tech- Midland

Project Manager: Ike Tavarez

El Jefe BSJ Fed. Comm 1H

212C-MD-01166

13-APR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), 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 (T104704400-18-14) 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)





13-APR-18

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

Reference: XENCO Report No(s): **581006 El Jefe BSJ Fed. Comm 1H** Project Address: Lea County, New Mexico

Ike Tavarez:

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) 581006. 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. 581006 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,

Huns hoah

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 581006



Tetra Tech- Midland, Midland, TX

El Jefe BSJ Fed. Comm 1H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------|--------|----------------|--------------|---------------|
| T-1 (0-1') | S | 03-29-18 00:00 | | 581006-001 |
| T-1 (2') | S | 03-29-18 00:00 | | 581006-002 |
| T-2 (0-1') | S | 03-29-18 00:00 | | 581006-003 |
| T-2 (2') | S | 03-29-18 00:00 | | 581006-004 |
| T-2 (4') | S | 03-29-18 00:00 | | 581006-005 |
| T-2 (6') | S | 03-29-18 00:00 | | 581006-006 |
| T-2 (8') | S | 03-29-18 00:00 | | 581006-007 |
| T-2 (10') | S | 03-29-18 00:00 | | 581006-008 |
| T-3 (0-1') | S | 03-29-18 00:00 | | 581006-009 |
| T-3 (2') | S | 03-29-18 00:00 | | 581006-010 |
| T-3 (4') | S | 03-29-18 00:00 | | 581006-011 |
| T-3 (6') | S | 03-29-18 00:00 | | 581006-012 |
| T-3 (8') | S | 03-29-18 00:00 | | 581006-013 |
| T-4 (0-1') | S | 03-29-18 00:00 | | 581006-014 |
| T-4 (2') | S | 03-29-18 00:00 | | 581006-015 |
| T-4 (4') | S | 03-29-18 00:00 | | 581006-016 |
| T-5 (0-1') | S | 03-29-18 00:00 | | 581006-017 |
| T-5 (2') | S | 03-29-18 00:00 | | 581006-018 |
| T-5 (4') | S | 03-29-18 00:00 | | 581006-019 |
| T-6 (0-1') | S | 03-29-18 00:00 | | 581006-020 |
| T-6 (2') | S | 03-29-18 00:00 | | 581006-021 |
| T-6 (4') | S | 03-29-18 00:00 | | 581006-022 |
| T-6 (6') | S | 03-29-18 00:00 | | 581006-023 |
| | | | | |





CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: El Jefe BSJ Fed. Comm 1H

Project ID: 212C-MD-01166 Work Order Number(s): 581006 Report Date: 13-APR-18 Date Received: 04/02/2018

Sample receipt non conformances and comments:

Client took Sample 017 & 018 off hold 04/09/18 JKR

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3045521 Inorganic Anions by EPA 300/300.1

Lab Sample ID 581006-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 581006-001, -002, -003, -004, -005, -006, -007, -008, - 009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

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

Batch: LBA-3045540 TPH By SW8015 Mod

Diesel Range Organics (DRO), Gasoline Range Hydrocarbons (GRO) RPD was outside laboratory control limits.

Samples in the analytical batch are: 581006-001, -002, -003, -004, -009, -010, -014, -015, -020, -021

Batch: LBA-3045673 BTEX by EPA 8021B

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

Batch: LBA-3045718 BTEX by EPA 8021B

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

Batch: LBA-3046232 BTEX by EPA 8021B

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

Batch: LBA-3046412 BTEX by EPA 8021B

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





Certificate of Analysis Summary 581006

Tetra Tech- Midland, Midland, TX Project Name: El Jefe BSJ Fed. Comm 1H



Date Received in Lab:Mon Apr-02-18 11:31 amReport Date:13-APR-18Project Manager:Kelsey Brooks

| | Lab Id: | 581006-0 | 001 | 581006-0 | 002 | 581006- | 003 | 581006- | 004 | 581006-0 | 005 | 581006-0 |)06 |
|-----------------------------------|------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-------------|-------|-------------|-------|
| Anglusis Deguasted | Field Id: | T-1 (0- | 1') | T-1 (2' |) | T-2 (0- | 1') | T-2 (2 |) | T-2 (4) |) | T-2 (6) |) |
| Analysis Kequesiea | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | , | SOIL | | SOIL | , | SOIL | , | SOIL | | SOIL | |
| | Sampled: | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 (| 00:00 |
| BTEX by EPA 8021B | Extracted: | Apr-03-18 | 17:00 | Apr-04-18 | 12:00 | Apr-04-18 | 12:00 | Apr-04-18 | 12:00 | | | | |
| | Analyzed: | Apr-03-18 | 22:33 | Apr-04-18 | 20:38 | Apr-04-18 | 20:57 | Apr-04-18 | 21:16 | | | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | < 0.00201 | 0.00201 | < 0.00199 | 0.00199 | 0.00714 | 0.00200 | < 0.00200 | 0.00200 | | | | |
| Toluene | | < 0.00201 | 0.00201 | < 0.00199 | 0.00199 | 0.0172 | 0.00200 | < 0.00200 | 0.00200 | | | | |
| Ethylbenzene | | < 0.00201 | 0.00201 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | < 0.00402 | 0.00402 | < 0.00398 | 0.00398 | 0.00949 | 0.00399 | < 0.00401 | 0.00401 | | | | |
| o-Xylene | | < 0.00201 | 0.00201 | < 0.00199 | 0.00199 | 0.00383 | 0.00200 | < 0.00200 | 0.00200 | | | | |
| Total Xylenes | | < 0.00201 | 0.00201 | < 0.00199 | 0.00199 | 0.0133 | 0.00200 | < 0.00200 | 0.00200 | | | | |
| Total BTEX | | < 0.00201 | 0.00201 | < 0.00199 | 0.00199 | 0.0377 | 0.00200 | < 0.00200 | 0.00200 | | | | |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 1 | 17:30 |
| | Analyzed: | Apr-03-18 | 05:33 | Apr-03-18 | 05:17 | Apr-03-18 | 05:38 | Apr-03-18 | 05:44 | Apr-03-18 (| 05:49 | Apr-03-18 (| 06:05 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 4960 | 49.5 | 454 | 4.98 | 13200 | 99.0 | 168 | 4.96 | 1080 | 4.98 | 1040 | 4.97 |
| TPH By SW8015 Mod | Extracted: | Apr-03-18 | 09:00 | Apr-03-18 | 09:00 | Apr-03-18 | 09:00 | Apr-03-18 | 09:00 | | | | |
| | Analyzed: | Apr-03-18 | 13:55 | Apr-03-18 | 14:20 | Apr-03-18 | 14:45 | Apr-03-18 | 15:08 | | | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 | 15.0 | <15.0 | 15.0 | 124 | 15.0 | <14.9 | 14.9 | | | | |
| Diesel Range Organics (DRO) | | 34.3 | 15.0 | 53.5 | 15.0 | 4390 | 15.0 | <14.9 | 14.9 | | | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 | 15.0 | <15.0 | 15.0 | 1200 | 15.0 | <14.9 | 14.9 | | | | |
| Total TPH | | 34.3 | 15.0 | 53.5 | 15.0 | 5710 | 15.0 | <14.9 | 14.9 | | | | |

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Kelsey Brooks Project Manager

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Certificate of Analysis Summary 581006

Tetra Tech- Midland, Midland, TX Project Name: El Jefe BSJ Fed. Comm 1H



Date Received in Lab:Mon Apr-02-18 11:31 amReport Date:13-APR-18Project Manager:Kelsey Brooks

| | Lab Id: | 581006-0 | 07 | 581006-0 | 08 | 581006- | 009 | 581006- | 010 | 581006-0 | 011 | 581006-0 | 012 |
|-----------------------------------|------------|-----------|-------|-------------|-------|-----------|---------|-----------|---------|-----------|-------|-----------|-------|
| Analysis Paguastad | Field Id: | T-2 (8 |) | T-2 (10 |) | T-3 (0- | 1') | T-3 (2 | .) (| T-3 (4 |) | T-3 (6 | ') |
| Analysis Kequesiea | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | , | SOIL | | SOIL | | SOIL | |
| | Sampled: | Mar-29-18 | 00:00 | Mar-29-18 (| 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 |
| BTEX by EPA 8021B | Extracted: | | | | | Apr-04-18 | 12:00 | Apr-04-18 | 12:00 | | | | |
| | Analyzed: | | | | | Apr-04-18 | 21:36 | Apr-04-18 | 21:55 | | | | |
| | Units/RL: | | | | | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | | | | | 0.00279 | 0.00201 | < 0.00199 | 0.00199 | | | | |
| Toluene | | | | | | 0.0116 | 0.00201 | < 0.00199 | 0.00199 | | | | |
| Ethylbenzene | | | | | | 0.00230 | 0.00201 | < 0.00199 | 0.00199 | | | | |
| m,p-Xylenes | | | | | | 0.0142 | 0.00402 | < 0.00398 | 0.00398 | | | | |
| o-Xylene | | | | | | 0.00486 | 0.00201 | < 0.00199 | 0.00199 | | | | |
| Total Xylenes | | | | | | 0.0191 | 0.00201 | < 0.00199 | 0.00199 | | | | |
| Total BTEX | | | | | | 0.0358 | 0.00201 | < 0.00199 | 0.00199 | | | | |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Apr-02-18 | 17:30 | Apr-02-18 1 | 7:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 |
| | Analyzed: | Apr-03-18 | 06:10 | Apr-03-18 0 | 6:15 | Apr-03-18 | 06:21 | Apr-03-18 | 06:26 | Apr-03-18 | 06:31 | Apr-03-18 | 06:47 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 346 | 4.99 | 60.6 | 4.99 | 16600 | 250 | 2110 | 24.9 | 289 | 4.96 | 82.0 | 5.00 |
| TPH By SW8015 Mod | Extracted: | | | | | Apr-03-18 | 09:00 | Apr-03-18 | 09:00 | | | | |
| | Analyzed: | | | | | Apr-04-18 | 08:35 | Apr-03-18 | 16:43 | | | | |
| | Units/RL: | | | | | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | | | 84.2 | 74.7 | <15.0 | 15.0 | | | | |
| Diesel Range Organics (DRO) | | | | | | 8690 | 74.7 | 25.9 | 15.0 | | | | |
| Oil Range Hydrocarbons (ORO) | | | | | | 2170 | 74.7 | <15.0 | 15.0 | | | | |
| Total TPH | | | | | | 10900 | 74.7 | 88.5 | 15.0 | | | | |

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Certificate of Analysis Summary 581006

Tetra Tech- Midland, Midland, TX Project Name: El Jefe BSJ Fed. Comm 1H



Date Received in Lab:Mon Apr-02-18 11:31 amReport Date:13-APR-18Project Manager:Kelsey Brooks

| | Lab Id: | 581006-0 | 13 | 581006-0 | 014 | 581006-0 | 015 | 581006-0 | 016 | 581006-0 | 017 | 581006- | 018 |
|-----------------------------------|------------|-------------|-------|-------------|---------|-----------|---------|-------------|-------|-------------|-------|-----------|---------|
| Analysis Paguastad | Field Id: | T-3 (8) |) | T-4 (0-1 | 1') | T-4 (2 |) | T-4 (4' |) | T-5 (0-1 |) | T-5 (2 | .') |
| Analysis Kequestea | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Mar-29-18 (| 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 |
| BTEX by EPA 8021B | Extracted: | | | Apr-04-18 | 12:00 | Apr-04-18 | 12:00 | | | Apr-11-18 (| 08:15 | Apr-10-18 | 08:00 |
| | Analyzed: | | | Apr-04-18 | 22:14 | Apr-04-18 | 22:33 | | | Apr-11-18 | 12:35 | Apr-10-18 | 15:50 |
| | Units/RL: | | | mg/kg | RL | mg/kg | RL | | | mg/kg | RL | mg/kg | RL |
| Benzene | | | | < 0.00200 | 0.00200 | < 0.00202 | 0.00202 | | | 12.6 | 0.996 | < 0.00200 | 0.00200 |
| Toluene | | | | 0.00354 | 0.00200 | < 0.00202 | 0.00202 | | | 186 | 0.996 | 0.00337 | 0.00200 |
| Ethylbenzene | | | | < 0.00200 | 0.00200 | < 0.00202 | 0.00202 | | | 43.6 | 0.996 | < 0.00200 | 0.00200 |
| m,p-Xylenes | | | | 0.0218 | 0.00399 | < 0.00403 | 0.00403 | | | 257 | 1.99 | 0.00438 | 0.00400 |
| o-Xylene | | | | 0.0424 | 0.00200 | < 0.00202 | 0.00202 | | | 97.7 | 0.996 | 0.00234 | 0.00200 |
| Total Xylenes | | | | 0.0642 | 0.00200 | < 0.00202 | 0.00202 | | | 355 | 0.996 | 0.00672 | 0.00200 |
| Total BTEX | | | | 0.0677 | 0.00200 | < 0.00202 | 0.00202 | | | 597 | 0.996 | 0.0101 | 0.00200 |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 |
| | Analyzed: | Apr-03-18 (| 06:53 | Apr-03-18 (| 07:08 | Apr-03-18 | 07:14 | Apr-03-18 (|)7:19 | Apr-03-18 (| 07:24 | Apr-03-18 | 07:30 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 114 | 4.98 | 3430 | 24.9 | 1810 | 24.8 | 1900 | 24.9 | 20100 | 249 | 6720 | 49.9 |
| TPH By SW8015 Mod | Extracted: | | | Apr-03-18 (| 09:00 | Apr-03-18 | 09:00 | | | Apr-09-18 | 12:00 | Apr-09-18 | 12:00 |
| | Analyzed: | | | Apr-03-18 | 17:07 | Apr-03-18 | 17:29 | | | Apr-09-18 | 18:41 | Apr-09-18 | 18:20 |
| | Units/RL: | | | mg/kg | RL | mg/kg | RL | | | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | | | 51.4 | 15.0 | <15.0 | 15.0 | | | 56300 | 748 | <15.0 | 15.0 |
| Diesel Range Organics (DRO) | | | | 929 | 15.0 | 21.8 | 15.0 | | | 106000 | 748 | 22.4 | 15.0 |
| Oil Range Hydrocarbons (ORO) | | | | 141 | 15.0 | <15.0 | 15.0 | | | 18000 | 748 | <15.0 | 15.0 |
| Total TPH | | | | 1120 | 15.0 | 21.8 | 15.0 | | | 180000 | 748 | 22.4 | 15.0 |

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Certificate of Analysis Summary 581006

Tetra Tech- Midland, Midland, TX Project Name: El Jefe BSJ Fed. Comm 1H



Date Received in Lab:Mon Apr-02-18 11:31 amReport Date:13-APR-18Project Manager:Kelsey Brooks

| | Lab Id: | 581006-0 |)19 | 581006-0 | 020 | 581006-0 | 021 | 581006-0 | 22 | 581006-0 | 023 | |
|-----------------------------------|------------|-------------|-------|-------------|---------|-----------|---------|-----------|-------|-------------|-------|--|
| Analysis Requested | Field Id: | T-5 (4) |) | T-6 (0-1 | ') | T-6 (2 |) | T-6 (4) |) | T-6 (6') |) | |
| Analysis Requested | Depth: | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | , | SOIL | | SOIL | | |
| | Sampled: | Mar-29-18 (| 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 | 00:00 | Mar-29-18 (| 00:00 | |
| BTEX by EPA 8021B | Extracted: | | | Apr-04-18 | 12:00 | Apr-04-18 | 12:00 | | | | | |
| | Analyzed: | | | Apr-04-18 2 | 22:53 | Apr-04-18 | 23:12 | | | | | |
| | Units/RL: | | | mg/kg | RL | mg/kg | RL | | | | | |
| Benzene | | | | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | | | | | |
| Toluene | | | | 0.00388 | 0.00200 | < 0.00199 | 0.00199 | | | | | |
| Ethylbenzene | | | | 0.00920 | 0.00200 | < 0.00199 | 0.00199 | | | | | |
| m,p-Xylenes | | | | 0.0721 | 0.00401 | 0.00447 | 0.00398 | | | | | |
| o-Xylene | | | | 0.0336 | 0.00200 | 0.00238 | 0.00199 | | | | | |
| Total Xylenes | | | | 0.106 | 0.00200 | 0.00685 | 0.00199 | | | | | |
| Total BTEX | | | | 0.119 | 0.00200 | 0.00685 | 0.00199 | | | | | |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Apr-02-18 | 17:30 | Apr-02-18 | 17:30 | Apr-03-18 | 15:05 | Apr-03-18 | 15:05 | Apr-03-18 1 | 15:05 | |
| | Analyzed: | Apr-03-18 (| 07:35 | Apr-03-18 (| 07:40 | Apr-03-18 | 15:46 | Apr-03-18 | 15:51 | Apr-03-18 1 | 15:30 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | |
| Chloride | | 1930 | 24.9 | 3960 | 25.0 | 3850 | 25.0 | 2000 | 25.0 | 26.7 | 4.95 | |
| TPH By SW8015 Mod | Extracted: | | | Apr-03-18 (| 09:00 | Apr-03-18 | 09:00 | | | | | |
| | Analyzed: | | | Apr-03-18 | 17:53 | Apr-03-18 | 18:14 | | | | | |
| | Units/RL: | | | mg/kg | RL | mg/kg | RL | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | | | 158 | 15.0 | <15.0 | 15.0 | | | | | |
| Diesel Range Organics (DRO) | | | | 4670 | 15.0 | 72.9 | 15.0 | | | | | |
| Oil Range Hydrocarbons (ORO) | | | | 1040 | 15.0 | <15.0 | 15.0 | | | | | |
| Total TPH | | | | 5870 | 15.0 | 72.9 | 15.0 | | | | | |

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LABORATORIES

Flagging Criteria



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- 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 Clier | nt Sample | BLK | Method Blank | |
|-----------|---------------------------------------|-----------|-----------------------------|--------------------------------|
| BKS/LCS | Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labor | atory 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: El Jefe BSJ Fed. Comm 1H

| Work Or | ders : 58100 | 6, G h 591007 001 / SMD | | Project ID: | 212C-MD-0 | 01166 | | | | | |
|-------------|---------------------|--|--------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|--|
| Lab Batch | #: 3045540 | Sample: 581006-001 / SMP | Batc | h: 1 Matrix | : 5011 | | | | | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 13:55 | SURROGATE RECOVERY STUDY | | | | | | | | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | tane | | 91.4 | 99.7 | 92 | 70-135 | | | | | |
| o-Terphenyl | 1 | | 47.5 | 49.9 | 95 | 70-135 | | | | | |
| Lab Batch | #: 3045540 | Sample: 581006-002 / SMP | Batcl | h: 1 Matrix | : Soil | | | | | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 14:20 | SU | RROGATE R | ECOVERY S | STUDY | | | | | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | ane | Anarytes | 01.8 | 00.0 | 02 | 70 125 | | | | | |
| o-Terphenyl | 1 | | 48.0 | 50.0 | 92 | 70-135 | | | | | |
| Lab Batch | <u>#• 3045540</u> | Sample: 581006-003 / SMP | 40.9 Rate | b· 1 Matrix | • Soil | 70-133 | | | | | |
| Lab Daten | mg/kg | Date Analyzed: $04/03/18 14.45$ | Date | | | | | | | | |
| onnas. | ing/kg | Date Analyzed: 04/05/10 14:45 | 50 | KROGATE K | ECOVERYS | STUDY | | | | | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | ane | | 80.1 | 99.8 | 89 | 70-135 | | | | | |
| o-Terphenyl | 1 | | 42.6 | 49.9 | 85 | 70-135 | | | | | |
| Lab Batch | #: 3045540 | Sample: 581006-004 / SMP | Batc | h: 1 Matrix | : Soil | 10 155 | | | | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 15:08 | SU | DDOCATE D | FCOVEDV | STUDV | | | | | |
| cints. | ing ng | Dute Mulyzet. 0 (103/10 13.00 | 50 | KRUGAIE K | | | | | | | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | tane | | 89.0 | 99.6 | 89 | 70-135 | | | | | |
| o-Terphenyl | 1 | | 45.2 | 49.8 | 91 | 70-135 | | | | | |
| Lab Batch | #: 3045540 | Sample: 581006-010 / SMP | Batc | h: 1 Matrix | : Soil | | | | | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 16:43 | SU | RROGATE R | ECOVERY S | STUDY | | | | | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | tane | | 89.8 | 99.9 | 90 | 70-135 | | | | | |
| o-Terphenyl | 1 | | 46.7 | 50.0 | 93 | 70-135 | | | | | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: El Jefe BSJ Fed. Comm 1H

| Work Ore Lab Batch # | ders: 58100 #: 3045540 | 6, Sample: 581006-014 / SMP | Batch: | Project ID: 1 Matrix | : 212C-MD-0 : Soil |)1166 | |
|-------------------------|----------------------------------|--------------------------------------|------------------------|-------------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 04/03/18 17:07 | SUR | ROGATE R | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chloroocta | ine | | 108 | 99.7 | 108 | 70-135 | |
| o-Terphenyl | | | 53.5 | 49.9 | 107 | 70-135 | |
| Lab Batch # | #: 3045540 | Sample: 581006-015 / SMP | Batch: | 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 17:29 | SUR | ROGATE R | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chloroocta | ine | | 108 | 99.8 | 108 | 70-135 | |
| o-Terphenyl | | | 55.7 | 49.9 | 112 | 70-135 | |
| Lab Batch # | #: 3045540 | Sample: 581006-020 / SMP | Batch: | 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 17:53 | SUR | ROGATE R | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1-Chloroocta | ine | | 99.4 | 99.7 | 100 | 70-135 | |
| o-Terphenyl | | | 48.3 | 49.9 | 97 | 70-135 | |
| Lab Batch # | #: 3045540 | Sample: 581006-021 / SMP | Batch: | 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 18:14 | SUR | ROGATE R | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chloroocta | ine | | 92.8 | 99.9 | 93 | 70-135 | |
| o-Terphenyl | | | 47.0 | 50.0 | 94 | 70-135 | |
| Lab Batch # | #: 3045673 | Sample: 581006-001 / SMP | Batch: | 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 22:33 | SUR | ROGATE R | ECOVERY S | STUDY | |
| | втех | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | benzene | | 0.0272 | 0.0300 | 91 | 70-130 | |
| 4-Bromofluo | robenzene | | 0.0288 | 0.0300 | 96 | 70-130 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: El Jefe BSJ Fed. Comm 1H

| Work Oi | rders: 58100 | 6, Sampler 581006 000 / SMB | Doto | Project ID: | 212C-MD-0 |)1166 | | | | | |
|-------------|-------------------|--------------------------------------|--------------------------|--------------------------|-----------------------|-------------------------|-------|--|--|--|--|
| Lab Datch | #: 3043340 | Date Analyzed: 04/04/18 08:35 | Date | | | | | | | | |
| | iiig/kg | Date Analyzeu. 04/04/18 08.55 | SURROGATE RECOVERT STUDY | | | | | | | | |
| | TPH | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooc | tane | | 91.8 | 99.6 | 92 | 70-135 | | | | | |
| o-Terpheny | 1 | | 50.4 | 49.8 | 101 | 70-135 | | | | | |
| Lab Batch | #: 3045718 | Sample: 581006-002 / SMP | Batc | h: 1 Matrix | : Soil | | | | | | |
| Units: | mg/kg | Date Analyzed: 04/04/18 20:38 | SU | RROGATE R | ECOVERYS | STUDY | | | | | |
| | BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1 4-Difluor | obenzene | | 0.0266 | 0.0300 | 80 | 70.130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0200 | 0.0300 | 03 | 70-130 | | | | | |
| Lab Batch | #: 3045718 | Sample: 581006-003 / SMP | Bate | 0.0300 h: 1 Matrix | · Soil | 70-150 | | | | | |
| Units: | mg/kg | Date Analyzed: 04/04/18 20:57 | SU | SURROGATE RECOVERY STUDY | | | | | | | |
| | BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | |
| | | Analytes | | | נען | | | | | | |
| 1,4-Difluor | obenzene | | 0.0282 | 0.0300 | 94 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0253 | 0.0300 | 84 | 70-130 | | | | | |
| Lab Batch | #: 3045/18 | Sample: 581006-004 / SMP | Batc | h: 1 Matrix | : Soil | | | | | | |
| Units: | mg/kg | Date Analyzed: 04/04/18 21:16 | SU | RROGATE R | ECOVERY | STUDY | | | | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1,4-Difluor | obenzene | | 0.0290 | 0.0300 | 97 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0310 | 0.0300 | 103 | 70-130 | | | | | |
| Lab Batch | #: 3045718 | Sample: 581006-009 / SMP | Batcl | h: 1 Matrix | : Soil | | | | | | |
| Units: | mg/kg | Date Analyzed: 04/04/18 21:36 | SU | RROGATE R | ECOVERY | STUDY | | | | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1,4-Difluor | obenzene | | 0.0266 | 0.0300 | 89 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0235 | 0.0300 | 78 | 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: El Jefe BSJ Fed. Comm 1H

| Work Or Lab Batch | • ders : 58100 #: 3045718 | 6, Sample: 581006-010 / SMP | Batch | Project ID: 1 Matrix: | 212C-MD-0 Soil |)1166 | |
|----------------------|-------------------------------------|--------------------------------------|------------------------|--------------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 04/04/18 21:55 | SU | RROGATE RI | ECOVERYS | STUDY | |
| | ВТЕХ | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0277 | 0.0300 | 92 | 70-130 | |
| 4-Bromoflue | orobenzene | | 0.0279 | 0.0300 | 93 | 70-130 | |
| Lab Batch | #: 3045718 | Sample: 581006-014 / SMP | Batch | : 1 Matrix: | Soil | 11 | 1 |
| Units: | mg/kg | Date Analyzed: 04/04/18 22:14 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | BTEX | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1.4-Difluoro | benzene | | 0.0257 | 0.0300 | 86 | 70-130 | |
| 4-Bromoflue | orobenzene | | 0.0325 | 0.0300 | 108 | 70-130 | |
| Lab Batch | #: 3045718 | Sample: 581006-015 / SMP | Batch | 1 Matrix: | Soil | | |
| Units: | mg/kg | Date Analyzed: 04/04/18 22:33 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | втех | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluoro | obenzene | | 0.0286 | 0.0300 | 95 | 70-130 | |
| 4-Bromoflue | orobenzene | | 0.0288 | 0.0300 | 96 | 70-130 | |
| Lab Batch | #: 3045718 | Sample: 581006-020 / SMP | Batch | : 1 Matrix: | Soil | | 1 |
| Units: | mg/kg | Date Analyzed: 04/04/18 22:53 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | ВТЕХ | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0250 | 0.0300 | 83 | 70-130 | |
| 4-Bromoflue | orobenzene | | 0.0386 | 0.0300 | 129 | 70-130 | |
| Lab Batch | #: 3045718 | Sample: 581006-021 / SMP | Batch | 1 Matrix: | Soil | | I |
| Units: | mg/kg | Date Analyzed: 04/04/18 23:12 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | ВТЕХ | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0279 | 0.0300 | 93 | 70-130 | |
| 4-Bromoflue | orobenzene | | 0.0257 | 0.0300 | 86 | 70-130 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: El Jefe BSJ Fed. Comm 1H

| Work Or Lab Batch | ders : 58100 #• 3046091 |)6, Sample: 581006-018 / SMP | Bate | Project ID | : 212C-MD-0 |)1166 | |
|----------------------|-----------------------------------|---------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 04/09/18 18:20 | SU | RROGATE R | ECOVERYS | STUDY | |
| | TPH | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | tane | - | 100 | 99.9 | 100 | 70-135 | |
| o-Terpheny | 1 | | 52.0 | 50.0 | 104 | 70-135 | |
| Lab Batch | #: 3046091 | Sample: 581006-017 / SMP | Batcl | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/09/18 18:41 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | tane | | 122 | 99.7 | 122 | 70-135 | |
| o-Terpheny | 1 | | 49.4 | 49.9 | 99 | 70-135 | |
| Lab Batch | #: 3046232 | Sample: 581006-018 / SMP | Batcl | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/10/18 15:50 | SU | RROGATE R | ECOVERY | STUDY | |
| | BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluor | obenzene | | 0.0235 | 0.0300 | 78 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0256 | 0.0300 | 85 | 70-130 | |
| Lab Batch | #: 3046412 | Sample: 581006-017 / SMP | Batcl | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/11/18 12:35 | SU | RROGATE R | ECOVERY | STUDY | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0232 | 0.0300 | 77 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0219 | 0.0300 | 73 | 70-130 | |
| Lab Batch | #: 3045540 | Sample: 7641929-1-BLK / I | BLK Batcl | h: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 09:35 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | tane | | 88.3 | 100 | 88 | 70-135 | |
| o-Terpheny | 1 | | 46.5 | 50.0 | 93 | 70-135 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: El Jefe BSJ Fed. Comm 1H

| Work Oi Lab Batch | rders : 58100 #: 3045673 | 6, Sample: 7642030-1-BLK / | BLK Batch | Project ID: n: 1 Matrix | 212C-MD-0 Solid |)1166 | |
|----------------------|-----------------------------|---------------------------------------|------------------------|----------------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 04/03/18 22:13 | SU | RROGATE R | ECOVERY | STUDY | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluor | obenzene | | 0.0288 | 0.0300 | 96 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0266 | 0.0300 | 89 | 70-130 | |
| Lab Batch | #: 3045718 | Sample: 7642055-1-BLK / | BLK Batch | n: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 22:13 | SU. | RROGATE R | ECOVERY | STUDY | |
| | BTEX | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluor | obenzene | | 0.0288 | 0.0300 | 96 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0266 | 0.0300 | 89 | 70-130 | |
| Lab Batch | #: 3046091 | Sample: 7642268-1-BLK / | BLK Batch | n: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 04/09/18 09:14 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooc | tane | · · · · · · · · · · · · · · · · · · · | 96.0 | 100 | 06 | 70.135 | |
| o-Terpheny | | | 90.0 | 50.0 | 100 | 70-135 | |
| Lab Batch | #• 3046232 | Sample: 7642361-1-BLK / | HIK Batch | 30.0 n• 1 Matrix | · Solid | 70-133 | |
| Lab Datch | mg/kg | Date Analyzed: 04/10/18 10:06 | | | | | |
| | mg/kg | Date Analyzed: 04/10/18 10.00 | SU. | RROGATE R | ECOVERY | STUDY | |
| | BTEX | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluor | obenzene | | 0.0252 | 0.0300 | 84 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0243 | 0.0300 | 81 | 70-130 | |
| Lab Batch | #: 3046412 | Sample: 7642454-1-BLK / | BLK Batch | n: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 04/11/18 10:25 | SU | RROGATE R | ECOVERY | STUDY | |
| | втех | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluor | obenzene | | 0.0297 | 0.0300 | 99 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0224 | 0.0300 | 75 | 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: El Jefe BSJ Fed. Comm 1H

| Work Or Lab Batch | ·ders : 58100 #: 3045540 | 6, Sample: 7641929-1-BKS / 1 | BKS Batch | Project ID: 1 Matrix: | 212C-MD-0 Solid |)1166 | |
|----------------------|------------------------------------|---------------------------------|------------------------|--------------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 04/03/18 09:58 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | ane | | 109 | 100 | 109 | 70-135 | |
| o-Terphenyl | 1 | | 47.3 | 50.0 | 95 | 70-135 | |
| Lab Batch | #: 3045673 | Sample: 7642030-1-BKS / | BKS Batch | n: 1 Matrix: | Solid | 11 | |
| Units: | mg/kg | Date Analyzed: 04/03/18 20:17 | SU | RROGATE R | ECOVERY S | STUDY | |
| | ВТЕХ | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0305 | 0.0300 | 102 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0283 | 0.0300 | 94 | 70-130 | |
| Lab Batch | #: 3045718 | Sample: 7642055-1-BKS / 1 | BKS Batch | n: 1 Matrix: | Solid | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 20:17 | 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-Difluoro | obenzene | | 0.0305 | 0.0300 | 102 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0283 | 0.0300 | 94 | 70-130 | |
| Lab Batch | #: 3046091 | Sample: 7642268-1-BKS / 1 | BKS Batch | n: 1 Matrix: | Solid | | |
| Units: | mg/kg | Date Analyzed: 04/09/18 09:35 | SU | RROGATE R | ECOVERY S | STUDY | |
| | TPH I | 3y SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | ane | | 129 | 100 | 129 | 70-135 | |
| o-Terphenyl | l | | 60.9 | 50.0 | 122 | 70-135 | |
| Lab Batch | #: 3046232 | Sample: 7642361-1-BKS / 1 | BKS Batch | n: 1 Matrix: | Solid | | |
| Units: | mg/kg | Date Analyzed: 04/10/18 08:10 | SU. | RROGATE R | ECOVERY S | STUDY | |
| | ВТЕХ | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0305 | 0.0300 | 102 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0317 | 0.0300 | 106 | 70-130 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: El Jefe BSJ Fed. Comm 1H

| Work Oi Lab Batch | r ders : 58100 #: 3046412 | 6, Sample: 7642454-1-BKS / | BKS Batch | Project ID: | 212C-MD-(Solid |)1166 | | | | |
|----------------------|-------------------------------------|--------------------------------------|------------------------|------------------------|-----------------------|-------------------------|-------|--|--|--|
| Units: | mg/kg | Date Analyzed: 04/11/18 08:17 | SU | RROGATE R | ECOVERY | STUDY | | | | |
| | ВТЕХ | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1,4-Difluor | obenzene | - | 0.0324 | 0.0300 | 108 | 70-130 | | | | |
| 4-Bromoflu | orobenzene | | 0.0289 | 0.0300 | 96 | 70-130 | | | | |
| Lab Batch | #: 3045540 | Sample: 7641929-1-BSD / | BSD Batch | : 1 Matrix | : Solid | | | | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 10:21 | SUI | RROGATE R | ECOVERY | STUDY | | | | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1-Chlorooc | tane | • | 129 | 100 | 129 | 70-135 | | | | |
| o-Terpheny | 1 | | 62.1 | 50.0 | 124 | 70-135 | | | | |
| Lab Batch | #: 3045673 | Sample: 7642030-1-BSD / | BSD Batch | : 1 Matrix | : Solid | | | | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 20:37 | SUI | SURROGATE RECOVERY STU | | | | | | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| | | Analytes | | | [D] | | | | | |
| 1,4-Difluor | obenzene | | 0.0300 | 0.0300 | 100 | 70-130 | | | | |
| 4-Bromoflu | orobenzene | | 0.0282 | 0.0300 | 94 | 70-130 | | | | |
| Lab Batch | #: 3045718 | Sample: 7642055-1-BSD / | BSD Batch | : 1 Matrix | : Solid | | | | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 20:37 | SUI | RROGATE R | ECOVERYS | STUDY | | | | |
| | ВТЕХ | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1,4-Difluor | obenzene | | 0.0300 | 0.0300 | 100 | 70-130 | | | | |
| 4-Bromoflu | orobenzene | | 0.0282 | 0.0300 | 94 | 70-130 | | | | |
| Lab Batch | #: 3046091 | Sample: 7642268-1-BSD / | BSD Batch | : 1 Matrix | : Solid | | | | | |
| Units: | mg/kg | Date Analyzed: 04/09/18 09:57 | SUI | RROGATE R | ECOVERYS | STUDY | | | | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1-Chlorooc | tane | | 97.3 | 100 | 97 | 70-135 | | | | |
| o-Terpheny | 1 | | 46.6 | 50.0 | 93 | 70-135 | | | | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: El Jefe BSJ Fed. Comm 1H

| Work Or Lab Batch | • ders : 58100 #• 3046232 | 6, Sample: 7642361-1-BSD / F | SD Batch | Project ID | : 212C-MD-(• Solid |)1166 | |
|----------------------|-------------------------------------|--------------------------------------|------------------------|-----------------------|------------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 04/10/18 08:30 | SUI | RROGATE R | ECOVERY | STUDY | |
| | втех | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | - | 0.0281 | 0.0300 | 94 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0307 | 0.0300 | 102 | 70-130 | |
| Lab Batch | #: 3046412 | Sample: 7642454-1-BSD / E | BSD Batch | : 1 Matrix | : Solid | 1 1 | |
| Units: | mg/kg | Date Analyzed: 04/11/18 08:37 | SUI | RROGATE R | ECOVERY | STUDY | |
| | BTEX | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0320 | 0.0300 | 107 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0299 | 0.0300 | 100 | 70-130 | |
| Lab Batch | #: 3045540 | Sample: 580999-001 S / MS | Batch | : 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 11:42 | SUI | RROGATE R | ECOVERY | STUDY | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1-Chlorooct | ane | | 104 | 99.9 | 104 | 70-135 | |
| o-Terpheny | 1 | | 46.0 | 50.0 | 92 | 70-135 | |
| Lab Batch | #: 3045673 | Sample: 581006-001 S / MS | Batch | : 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 20:56 | SUI | RROGATE R | ECOVERYS | STUDY | |
| | втех | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluor | obenzene | | 0.0317 | 0.0300 | 106 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0288 | 0.0300 | 96 | 70-130 | |
| Lab Batch | #: 3045718 | Sample: 581267-002 S / MS | Batch | : 1 Matrix | : Soil | 1 1 | |
| Units: | mg/kg | Date Analyzed: 04/04/18 14:43 | SUI | RROGATE R | ECOVERY | STUDY | |
| | втех | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0295 | 0.0300 | 98 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0291 | 0.0300 | 97 | 70-130 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: El Jefe BSJ Fed. Comm 1H

| Work Or Lab Batch | ders : 58100 #: 3046091 | 6, Sample: 581762-001 S / MS | Rate | Project ID: | 212C-MD-0 Soil |)1166 | |
|---|-----------------------------------|--------------------------------------|------------------------|-----------------------------|-----------------------|-------------------------|-------|
| Lab Batch #: 3040091 Sample: 301702-001 Units: mg/kg Date Analyzed: 04/09/18 10:- | | Date Analyzed: 04/09/18 10:40 | | DDOCATE DI | | STUDY | |
| | ing/kg | Date Maryzett. 04/09/10 10.40 | 80 | KRUGATE RI | | | |
| | TPH I | 3y SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | tane | | 94.5 | 99.7 | 95 | 70-135 | |
| o-Terpheny | 1 | | 42.8 | 49.9 | 86 | 70-135 | |
| Lab Batch | #: 3046232 | Sample: 581763-004 S / MS | Batch | n: 1 Matrix: | Soil | 11 | |
| Units: | mg/kg | Date Analyzed: 04/10/18 08:49 | SU | RROGATE RI | ECOVERY | STUDY | |
| | BTEX | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 14-Difluor | henzene | | 0.0305 | 0.0300 | 102 | 70.130 | |
| 4-Bromoflu | orobenzene | | 0.0333 | 0.0300 | 102 | 70-130 | |
| Lab Batch | #: 3046412 | Sample: 581765-012 S / MS | Batch | $\frac{1}{1} = \frac{1}{1}$ | Soil | 70 150 | |
| Units: | mg/kg | Date Analyzed: 04/11/18 09:07 | SU | RROGATE RI | ECOVERY | STUDY | |
| | ВТЕХ | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | [1] | [2] | [D] | | |
| 1,4-Difluoro | obenzene | | 0.0314 | 0.0300 | 105 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0293 | 0.0300 | 98 | 70-130 | |
| Lab Batch | #: 3045540 | Sample: 580999-001 SD / N | ISD Batch | n: 1 Matrix: | Soil | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 12:05 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | tane | | 93.3 | 99.9 | 93 | 70-135 | |
| o-Terpheny | 1 | | 42.6 | 50.0 | 85 | 70-135 | |
| Lab Batch | #: 3045673 | Sample: 581006-001 SD / M | ISD Batch | n: 1 Matrix: | Soil | | |
| Units: | mg/kg | Date Analyzed: 04/03/18 21:15 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | втех | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0293 | 0.0300 | 98 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0360 | 0.0300 | 120 | 70-130 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: El Jefe BSJ Fed. Comm 1H

| Work O Lab Batch | rders : 58100 #: 3045718 | 6, Sample: 581267-002 SD / N | MSD Bate | Project ID h: 1 Matrix | 212C-MD-0 Soil |)1166 | |
|---------------------|-----------------------------|---------------------------------|------------------------|---------------------------|-----------------------|---|-------|
| Units: | mg/kg | Date Analyzed: 04/04/18 15:09 | SU | RROGATE R | ECOVERY | STUDY | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluor | robenzene | | 0.0311 | 0.0300 | 104 | 70-130 | |
| 4-Bromoflu | ıorobenzene | | 0.0310 | 0.0300 | 103 | 70-130 | |
| Lab Batch | #: 3046091 | Sample: 581762-001 SD / N | MSD Bate | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/09/18 11:01 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1 Chloroog | tana | Analytes | 102 | 00.8 | 102 | 70.125 | |
| a Tombon | 1 | | 102 | 99.8 | 102 | 70-135 | |
| Lob Potch | #• 3046232 | Sample: 581763 004 SD / N | 47.1 | 49.9 | 94 • Soil | /0-155 | |
| LaD Daten | ma/la | Date Analyzed: 04/10/18 00:08 | MSD Bate | | . 5011 | | |
| Units: | mg/kg | Date Analyzed: 04/10/18 09:08 | 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-Difluor | robenzene | | 0.0323 | 0.0300 | 108 | 70-130 | |
| 4-Bromoflu | ıorobenzene | | 0.0334 | 0.0300 | 111 | 70-130 | |
| Lab Batch | #: 3046412 | Sample: 581765-012 SD / N | MSD Bate | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 04/11/18 09:27 | SU | RROGATE R | ECOVERY | STUDY | |
| | BTEX | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1 4 Differen | ahangana | Anarytes | 0.0225 | 0.0200 | 100 | 70.120 | |
| 1,4-Diffuor | openzene | | 0.0325 | 0.0300 | 108 | 70-130 | |
| 4-Bromofit | lorobenzene | | 0.0293 | 0.0300 | 98 | /0-130 | |

* 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





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Project Name: El Jefe BSJ Fed. Comm 1H

| Work Order #: 581006 | | | | | | | Proj | ject ID: 🤇 | 212C-MD-(|)1166 | |
|---|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|------------|-------------------------|---------------------------|------|
| Analyst: ALJ | D | ate Prepar | red: 04/03/202 | 18 | | | Date A | nalyzed: (| 04/03/2018 | | |
| Lab Batch ID: 3045673 Sample: 7642030-1 | -BKS | Bate | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: mg/kg | | BLAN | K/BLANK | SPIKE / 1 | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | DY | |
| BTEX by EPA 8021B Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Benzene | < 0.00202 | 0.101 | 0.116 | 115 | 0.101 | 0.121 | 120 | 4 | 70-130 | 35 | |
| Toluene | < 0.00202 | 0.101 | 0.108 | 107 | 0.101 | 0.114 | 113 | 5 | 70-130 | 35 | |
| Ethylbenzene | < 0.00202 | 0.101 | 0.102 | 101 | 0.101 | 0.109 | 108 | 7 | 70-130 | 35 | |
| m,p-Xylenes | < 0.00403 | 0.202 | 0.212 | 105 | 0.202 | 0.224 | 111 | 6 | 70-130 | 35 | |
| o-Xylene | < 0.00202 | 0.101 | 0.107 | 106 | 0.101 | 0.113 | 112 | 5 | 70-130 | 35 | |
| Analyst: ALJ | D | ate Prepar | red: 04/04/202 | 18 | | | Date A | nalyzed: (| 04/03/2018 | | |
| Lab Batch ID: 3045718 Sample: 7642055-1 | -BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: mg/kg | | BLAN | K/BLANK | SPIKE / 1 | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | DY | |
| BTEX by EPA 8021B Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Benzene | < 0.00200 | 0.0998 | 0.115 | 115 | 0.100 | 0.120 | 120 | 4 | 70-130 | 35 | |
| Toluene | < 0.00200 | 0.0998 | 0.107 | 107 | 0.100 | 0.113 | 113 | 5 | 70-130 | 35 | |
| Ethylbenzene | < 0.00200 | 0.0998 | 0.101 | 101 | 0.100 | 0.109 | 109 | 8 | 70-130 | 35 | |
| m,p-Xylenes | < 0.00399 | 0.200 | 0.210 | 105 | 0.201 | 0.223 | 111 | 6 | 70-130 | 35 | |
| o-Xylene | <0.00200 | 0.0998 | 0.106 | 106 | 0.100 | 0.113 | 113 | 6 | 70-130 | 35 | |





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Project Name: El Jefe BSJ Fed. Comm 1H

| Work Order #: 581006 | | | | | | | Proj | ject ID: 2 | 212C-MD-(|)1166 | |
|---|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|------------|-------------------------|---------------------------|------|
| Analyst: ALJ | D | ate Prepar | red: 04/10/201 | 8 | | | Date A | nalyzed: (| 04/10/2018 | | |
| Lab Batch ID: 3046232 Sample: 7642361-1 | -BKS | Bate | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: mg/kg | | BLAN | K/BLANK | SPIKE / 1 | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | ΟY | |
| BTEX by EPA 8021B Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Benzene | <0.00198 | 0.0990 | 0.118 | 119 | 0.0994 | 0.116 | 117 | 2 | 70-130 | 35 | |
| Toluene | <0.00198 | 0.0990 | 0.115 | 116 | 0.0994 | 0.111 | 112 | 4 | 70-130 | 35 | |
| Ethylbenzene | < 0.00198 | 0.0990 | 0.115 | 116 | 0.0994 | 0.112 | 113 | 3 | 70-130 | 35 | |
| m,p-Xylenes | < 0.00396 | 0.198 | 0.240 | 121 | 0.199 | 0.230 | 116 | 4 | 70-130 | 35 | |
| o-Xylene | < 0.00198 | 0.0990 | 0.119 | 120 | 0.0994 | 0.115 | 116 | 3 | 70-130 | 35 | |
| Analyst: ALJ | D | ate Prepar | ed: 04/11/201 | 8 | | | Date A | nalyzed: (| 04/11/2018 | | |
| Lab Batch ID: 3046412 Sample: 7642454-1 | -BKS | Bate | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: mg/kg | | BLAN | K/BLANK | SPIKE /] | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | ΟY | |
| BTEX by EPA 8021B Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Benzene | <0.00201 | 0.101 | 0.118 | 117 | 0.101 | 0.118 | 117 | 0 | 70-130 | 35 | |
| Toluene | < 0.00201 | 0.101 | 0.115 | 114 | 0.101 | 0.114 | 113 | 1 | 70-130 | 35 | |
| Ethylbenzene | < 0.00201 | 0.101 | 0.116 | 115 | 0.101 | 0.114 | 113 | 2 | 70-130 | 35 | |
| m,p-Xylenes | < 0.00402 | 0.201 | 0.237 | 118 | 0.202 | 0.232 | 115 | 2 | 70-130 | 35 | |
| o-Xylene | < 0.00201 | 0.101 | 0.118 | 117 | 0.101 | 0.116 | 115 | 2 | 70-130 | 35 | |





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Project Name: El Jefe BSJ Fed. Comm 1H

| Work Order | :#: 581006 | | | | | | | | Pro | ject ID: 🤇 | 212C-MD- | 01166 | |
|--------------|-------------------------------|-----------------------------------|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|------------|-------------------------|---------------------------|----------|
| Analyst: | OJS | | Da | ate Prepar | red: 04/02/201 | 8 | | | Date A | nalyzed: (| 04/03/2018 | | |
| Lab Batch ID | : 3045521 Sam | ple: 7641896-1- | BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: | mg/kg | | | BLAN | K /BLANK S | SPIKE / 1 | BLANK S | SPIKE DUPI | LICATE | RECOVI | ERY STUI | DY | |
| Inorga | anic Anions by EPA 30 vtes |)0/300.1 | 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 | 250 | 273 | 109 | 250 | 267 | 107 | 2 | 90-110 | 20 | <u> </u> |
| Analyst: | OJS | | Da | ate Prepar | red: 04/03/201 | 8 | ļ | 1 | Date A | nalyzed: (| 04/03/2018 | - | |
| Lab Batch ID | : 3045644 Sam | ple: 7641963-1- | BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: | mg/kg | | | BLAN | K /BLANK S | SPIKE / 1 | BLANK S | SPIKE DUPI | LICATE | RECOVI | ERY STUI | DY | |
| Inorga | anic Anions by EPA 3 | 00/300.1 | 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 | 250 | 256 | 102 | 250 | 246 | 98 | 4 | 90-110 | 20 | |
| Analyst: | ARM | | D | ate Prepar | red: 04/03/201 | 8 | | - | Date A | nalvzed: (|)4/03/2018 | | |
| Lab Batch ID | : 3045540 Sam | ple: 7641929-1- | BKS | Bate | h #: 1 | | | | 200012 | Matrix: S | Solid | | |
| Units: | mg/kg | | | BLAN | K /BLANK S | SPIKE / 1 | BLANK S | SPIKE DUPI | LICATE | RECOVI | ERY STUI | DY | |
| | TPH By SW8015 Mo | d | 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 |
| Anala A | VIES | Gasoline Range Hydrocarbons (GRO) | | | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 |
| Gasoline I | Range Hydrocarbons (GRO) | | <15.0 | 1000 | 901 | 90 | 1000 | 1150 | 115 | 24 | 70-135 | 20 | F |





Project Name: El Jefe BSJ Fed. Comm 1H

| Work Order | #: 581006 | | | | | | | Proj | ject ID: 2 | 212C-MD-(|)1166 | |
|---------------|---------------------------|-------|----------------|--------------------------|---------------------------|----------------|-----------------------------|------------------------|------------|-------------------------|---------------------------|------|
| Analyst: | ARM | D | red: 04/09/201 | | Date Analyzed: 04/09/2018 | | | | | | | |
| Lab Batch ID: | Sample: 7642268-1- | BKS | Bate | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: | mg/kg | | BLAN | K /BLANK S | SPIKE / I | BLANK S | SPIKE DUPI | LICATE | RECOV | ERY STUI | ŊҮ | |
| | TPH By SW8015 Mod | | 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 | tes | | [B] | [C] | [D] | [E] | Result [F] | [G] | | | | |
| Gasoline R | Range Hydrocarbons (GRO) | <15.0 | 1000 | 1060 | 106 | 1000 | 995 | 100 | 6 | 70-135 | 20 | |
| Diesel Ran | nge Organics (DRO) | <15.0 | 1000 | 1160 | 116 | 1000 | 1130 | 113 | 3 | 70-135 | 20 | |



Project Name: El Jefe BSJ Fed. Comm 1H



| Work Order # : 581006 | | | | | | Project II | D: 212C-1 | MD-0116 | б | | |
|----------------------------------|----------------------------|----------------|-------------------------|------------------------|----------------|--|----------------------|------------|-------------------------|---|------|
| Lab Batch ID: 3045673 | QC- Sample ID: | 581006 | -001 S | Ba | tch #: | 1 Matrix | x: Soil | | | | |
| Date Analyzed: 04/03/2018 | Date Prepared: | 04/03/2 | 018 | An | alyst: A | ALJ | | | | | |
| Reporting Units: mg/kg | | Μ | ATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| BTEX by EPA 8021B | Parent Sample Bogwlt | Spike | Spiked Sample Result | Spiked Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Kesuit [F] | %R [G] | % 0 | %K | %RPD | |
| Benzene | <0.00199 | 0.0994 | 0.109 | 110 | 0.0998 | 0.0915 | 92 | 17 | 70-130 | 35 | |
| Toluene | <0.00199 | 0.0994 | 0.101 | 102 | 0.0998 | 0.0887 | 89 | 13 | 70-130 | 35 | |
| Ethylbenzene | <0.00199 | 0.0994 | 0.0917 | 92 | 0.0998 | 0.0813 | 81 | 12 | 70-130 | 35 | |
| m,p-Xylenes | < 0.00398 | 0.199 | 0.188 | 94 | 0.200 | 0.162 | 81 | 15 | 70-130 | 35 | |
| o-Xylene | <0.00199 | 0.0994 | 0.0993 | 100 | 0.0998 | 0.0875 | 88 | 13 | 70-130 | 35 | |
| Lab Batch ID: 3045718 | QC- Sample ID: | 581267 | -002 S | Ba | tch #: | 1 Matrix | x: Soil | | | | |
| Date Analyzed: 04/04/2018 | Date Prepared: | 04/04/2 | 018 | An | alyst: A | ALJ | | | | | |
| Reporting Units: mg/kg | | Μ | ATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| BTEX by EPA 8021B | Parent Sample Result | Spike Added | Spiked Sample Result | 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] | 11050110 [1] | [G] | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Benzene | <0.00201 | 0.100 | 0.0839 | 84 | 0.0998 | 0.0996 | 100 | 17 | 70-130 | 35 | |
| Toluene | <0.00201 | 0.100 | 0.0779 | 78 | 0.0998 | 0.0943 | 94 | 19 | 70-130 | 35 | |
| Ethylbenzene | <0.00201 | 0.100 | 0.0720 | 72 | 0.0998 | 0.0882 | 88 | 20 | 70-130 | 35 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.151 | 75 | 0.200 | 0.181 | 91 | 18 | 70-130 | 35 | |
| o-Xylene | < 0.00201 | 0.100 | 0.0755 | 76 | 0.0998 | 0.0920 | 92 | 20 | 70-130 | 35 | |

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

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

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Project Name: El Jefe BSJ Fed. Comm 1H



| Work Order # : 581006 | | | | | | Project II |): 212C-N | MD-0116 | 5 | | |
|----------------------------------|----------------------------|---------|-------------------------|------------------------|----------|----------------------------|-----------------------|---------|-------------------|-------------------|------|
| Lab Batch ID: 3046232 | QC- Sample ID: | 581763 | -004 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: 04/10/2018 | Date Prepared: | 04/10/2 | 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 Posult | Spike | Spiked Sample Result | Spiked Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| Analytes | [A] | [B] | [C] | ⁷⁶ K [D] | E] | Kesult [F] | [G] | 70 | 70K | 70KFD | |
| Benzene | <0.00200 | 0.100 | 0.0887 | 89 | 0.101 | 0.107 | 106 | 19 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0819 | 82 | 0.101 | 0.101 | 100 | 21 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0764 | 76 | 0.101 | 0.100 | 99 | 27 | 70-130 | 35 | |
| m,p-Xylenes | <0.00401 | 0.200 | 0.157 | 79 | 0.202 | 0.205 | 101 | 27 | 70-130 | 35 | |
| o-Xylene | < 0.00200 | 0.100 | 0.0787 | 79 | 0.101 | 0.103 | 102 | 27 | 70-130 | 35 | |
| Lab Batch ID: 3046412 | QC- Sample ID: | 581765 | -012 S | Ba | tch #: | 1 Matrix | : Soil | | | | |
| Date Analyzed: 04/11/2018 | Date Prepared: | 04/11/2 | 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 | Spiked Sample Result | Spiked Sample | Spike | Duplicate Spiked Sample | Spiked Dup. % P | RPD | Control Limits | Control Limits | Flag |
| Analytes | [A] | [B] | [0] | [D] | [E] | Kesutt [F] | [G] | /0 | 701 | 70KI D | |
| Benzene | < 0.00200 | 0.100 | 0.0867 | 87 | 0.0998 | 0.0956 | 96 | 10 | 70-130 | 35 | |
| Toluene | <0.00200 | 0.100 | 0.0809 | 81 | 0.0998 | 0.0896 | 90 | 10 | 70-130 | 35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0805 | 81 | 0.0998 | 0.0868 | 87 | 8 | 70-130 | 35 | |
| m,p-Xylenes | <0.00401 | 0.200 | 0.165 | 83 | 0.200 | 0.177 | 89 | 7 | 70-130 | 35 | |
| o-Xylene | < 0.00200 | 0.100 | 0.0810 | 81 | 0.0998 | 0.0888 | 89 | 9 | 70-130 | 35 | |

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

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

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Project Name: El Jefe BSJ Fed. Comm 1H



| Work Order # : | 581006 | | | | | | Project II | D: 212C-1 | MD-0116 | 6 | | |
|-------------------------|----------------------------|----------------------------|----------------|-------------------------|------------------------|----------------|--|----------------------|----------|-------------------------|---------------------------|------|
| Lab Batch ID: | 3045521 | QC- Sample ID: | 581006 | -002 S | Ba | tch #: | 1 Matrix | k: Soil | | | | |
| Date Analyzed: | 04/03/2018 | Date Prepared: | 04/02/2 | 018 | Ar | nalyst: (| OJS | | | | | |
| Reporting Units: | mg/kg | | Μ | IATRIX SPIK | E / MAT | 'RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| Inorgar | ic Anions by EPA 300/300.1 | Parent Sample Besult | Spike | Spiked Sample Result | Spiked Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | [A] | [B] | | 50K [D] | [E] | Kesun [F] | %K [G] | 70 | 70K | 70KPD | |
| Chloride | | 454 | 249 | 715 | 105 | 249 | 722 | 108 | 1 | 90-110 | 20 | |
| Lab Batch ID: | 3045521 | QC- Sample ID: | 581006 | -011 S | Ba | tch #: | 1 Matrix | k: Soil | | | | |
| Date Analyzed: | 04/03/2018 | Date Prepared: | 04/02/2 | 018 | Ar | nalyst: (| OJS | | | | | |
| Reporting Units: | mg/kg | | Μ | IATRIX SPIK | E / MAT | 'RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| Inorgar | ic Anions by EPA 300/300.1 | Parent Sample Result | Spike Added | Spiked Sample Result | 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] | incount [1] | [G] | | | | |
| Chloride | | 289 | 248 | 553 | 106 | 248 | 571 | 114 | 3 | 90-110 | 20 | Х |
| Lab Batch ID: | 3045644 | QC- Sample ID: | 581006 | -023 S | Ba | tch #: | 1 Matrix | k: Soil | | | | |
| Date Analyzed: | 04/03/2018 | Date Prepared: | 04/03/2 | 018 | Ar | nalyst: (| OJS | | | | | |
| Reporting Units: | mg/kg | | Μ | IATRIX SPIK | E / MAT | 'RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| Inorgar | ic Anions by EPA 300/300.1 | Parent Sample Result | Spike Added | Spiked Sample Result | Spiked Sample %B | Spike | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD | Control Limits %R | Control Limits %RPD | Flag |
| | Analytes | [A] | [B] | [0] | [D] | [E] | Acoutt [1'] | [G] | | | | |
| Chloride | | 26.7 | 248 | 272 | 99 | 248 | 270 | 98 | 1 | 90-110 | 20 | |

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

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

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Project Name: El Jefe BSJ Fed. Comm 1H



| Work Order # : | 581006 | | | | | | Project II | D: 212C-1 | MD-0116 | 6 | | | | | |
|-------------------------|-----------------------------|--|----------------|--------------------------------|------------------------|----------------|--|----------------------|----------|-------------------------|---------------------------|------|--|--|--|
| Lab Batch ID: | 3045644 | QC- Sample ID: | 581057 | -003 S | Ba | tch #: | 1 Matrix | x: Soil | | | | | | | |
| Date Analyzed: | 04/03/2018 | Date Prepared: | 04/03/2 | 2018 | Ar | nalyst: (| OJS | | | | | | | | |
| Reporting Units: | mg/kg | | N | IATRIX SPIK | E / MAT | 'RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | | | | |
| Inorga | nic Anions by EPA 300/300.1 | Parent Sample Bosult | Spike | Spiked Sample Result | Spiked Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag | | | |
| | Analytes | [A] | [B] | [C] | 5%K [D] | E] | Kesuit [F] | 76K [G] | 70 | 70K | 70KFD | | | | |
| Chloride | | 370 | 248 | 603 | 94 | 248 | 607 | 96 | 1 | 90-110 | 20 | | | | |
| Lab Batch ID: | 3045540 | QC- Sample ID: | 580999 | 0-001 S | Ba | tch #: | 1 Matri | x: Soil | | | | | | | |
| Date Analyzed: | 04/03/2018 | Date Prepared: | 04/03/2 | 2018 | Ar | alyst: A | ARM | | | | | | | | |
| Reporting Units: | mg/kg | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | | | |
| , | TPH By SW8015 Mod | Parent Sample Result | Spike | Spiked Sample Result | Spiked Sample | Spike | Duplicate Spiked Sample Besult [F] | Spiked Dup. | RPD | Control Limits | Control Limits | Flag | | | |
| | Analytes | [A] | [B] | [C] | 5%K [D] | E] | Kesuit [F] | 76K [G] | 70 | 70K | 70KFD | | | | |
| Gasoline Range | Hydrocarbons (GRO) | <15.0 | 999 | 1020 | 102 | 999 | 926 | 93 | 10 | 70-135 | 20 | | | | |
| Diesel Range O | rganics (DRO) | <15.0 | 999 | 1100 | 110 | 999 | 1040 | 104 | 6 | 70-135 | 20 | | | | |
| Lab Batch ID: | 3046091 | QC- Sample ID: | 581762 | 2-001 S | Ba | tch #: | 1 Matrix | x: Soil | | | | | | | |
| Date Analyzed: | 04/09/2018 | Date Prepared: | 04/09/2 | 2018 | Ar | 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 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] | [-] | [D] | [E] | | [G] | | | | | | | |
| Gasoline Range | Hydrocarbons (GRO) | <15.0 | 997 | 810 | 81 | 998 | 831 | 83 | 3 | 70-135 | 20 | | | | |
| Diesel Range O | rganics (DRO) | 30.4 | 997 | 848 | 82 | 998 | 922 | 89 | 8 | 70-135 | 20 | | | | |

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

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

Page 28 of 32

| Received by OC | ר <mark>ים: <i>10/1</i></mark> | 4/2021 | 3:18: | <u>08 P</u> | H - | 1 | | | | | Г | T | T | | | | - | ד ר | | о т | T | | Pa | ge 63 of 122 |
|-------------------------|--------------------------------|---------------------------------|--------------------|---------------------------|------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|---|-----------------------------------|------------------------------------|--|-----------------------|------------------|---------------------------------|---------------------------|---------------|--|----------------------------------|
| | elinquished by: | omiquoiroa by. | Mr. K | Telinguished by: | | | | | | | | | | (LAB USE ONLY) | LAB # | fige Scoretograf | Contraction of the second seco | Commonte: | nvoice to: | Project Location: state) | ^o roject Name: | | | Analysis Rec |
| | : Date: Time: | . Date: Tille: | anora 4-2-18 // 30 | T-3 (2') Date: Time: | T-3 (0-1') | T-2 (10') | T-2 (8') | T-2 (6') | T-2 (4') | T-2 (2') | T-2 (0-1') | T-1 (2') | T-1 (0-1') | | SAMPLE IDENTIFICATION | | Fun deeper samples if TPH exceeds 5,000 mg/kg. Run dee 50 mg/kg | Xenco Midland Tx | Tetra Tech, Inc. | (county, Lea County, New Mexico | El Jefe BSJ Fed. Comm 1H | EOG | Tetra Tech, Inc. | quest of Chain of Custody Record |
| ORIGINAL COPY | Received by: | Heceived by: | Aller | 3/29/2018 Received hv: | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | DATE | YEAR: 2017 | SAMPLING | eper samples if benzene | Sampler Signature: | | Project #: | | Site Manager: | | |
| | Date: | (Date: | 0 4/2 | X | × | × | × | × | × | × | × | × | × | WATER SOIL HCL | | MATRIX | exceeds 10 mg/l | Mike Carr | | 212C-MD | | lke Tavarez | 4000 N. Big Sp 401 Midland Tel (432) Fax (432) | |
| | t Time: | Time: | 1/18 //7 | X | × | × | × | × | × | × | × | × | × | HNO₃ ICE None | | PRESERVATIVE METHOD | kg or Total BTE | mona | | 0-01166 | | | oring Street, Ste 1,Texas 79705 682-4559 682-3946 | |
| | | | 15. | 1 N | 1 Z | Z | Z | Z | Z | 1 Z | 1 Z | 1 Z | 1 N | # CONTA | AINE D (Y | RS //N) | X exceeds | | | | | | | |
| (Circle) HAND DELIV | | Sample Temperature | LAB USE ONL | | XX | | | | | X | × 1 × 1 | × | XXX | BTEX 80 TPH TX1 TPH 801: PAH 827 Total Meta | 21B 005 5M (0C als A | BTE (Ext to GRO - g As B | X 8260 C35) DRO - (a Cd Cr | B DRO - I Pb Se | MRO) Hg | | Cire | | | |
| CF:(C CF:(C Corre | Special | Rush C | Y REMARKS: | | | | | | | | | | | TCLP Met TCLP Voli TCLP Ser RCI GC/MS Vo | atiles ni Vo ol. 82 | Ag As E s platiles 260B / | 3a Cd Ci 624 | Pb Se | Hg | | cle or Speci | ANALYSIS | 00189 | |
| :: (| Report Limits or | Same Day 24 harges Authorize | ANDARD | | × | × ; | × | × ; | × | × | × | | × | GC/MS Se PCB's 80 NORM PLM (Asb Chloride | emi. 1 82 / 6 estos | Vol. 82 608 5) | 270C/62 | 5 | | | fy Method | REQUEST | 96 | Page |
| IR ID:R- 9 9- \ | TRRP Report | hr 48 hr 72 hr d | | | | | | | | | | | | Chloride General V Anion/Cat | Su Vate tion I | Ilfate r Cher Balanc | TDS mistry (s ce | ee atta | ached I | ist) | No.) | | | 1 0 |
| œ Released to Im | iging: 9/ | /13/20. | 22 2:14 | 1:46 | РМ | , | | | | | Page | 29 | of 3 | Hold | | | | | Final 1 | .000 | _ | | | ω . |

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| Tetra Tech, Inc. Construction of the Network of the Netw | Received by O | CD: 10/2 | 14/202 | 13:18 | .08 | PM | T | T | T | 1 | 1 | 1 | T | - | | | | | - | | 0 1 | | | <u></u> P |
|--|-----------------------|------------------|-------------------|--------|---------------------------|-----------|-----------|------------|-----------|-----------|--------------|-----------|-----------|-----------|--|---------------------|-----------------------|----------------------------|---------------|-------------------|-----------------------------|-----------------|---------------|--|
| Certra Tech, Inc. environment of the comment in the BSJ Fed. Comm H Sector EVEN Now Mascing Now Mascing Sector Certific or Sector Sector Tetra Tech, Inc. Sector Tetra Tech, Inc. Sector S | v | (elinquished by: | | Mrike | elinquished by: | | | | | | | | | | (LAB USE) | LAB # | | omments: | | appointing Labora | project Location: state) | Project Name: | | |
| Tetra Tech, Inc. Ten control in the comment in the SL Fed. Comm (H) Support to the comment in the SL Fed. Comm (H) Sector State Sector State </td <td></td> <td></td> <td></td> <td>(amos)</td> <td>1-6 (0-1')</td> <td>T-5 (4')</td> <td>T-5 (2')</td> <td>T-5 (0-1')</td> <td>T-4 (4')</td> <td>T-4 (2')</td> <td>T-4 (0-1')</td> <td>T-3 (8')</td> <td>T-3 (6')</td> <td>T-3 (4')</td> <td></td> <td></td> <td></td> <td>Run deeper sam 50 mg/kg</td> <td>Xenc</td> <td>Tetra</td> <td>(county, Lea (</td> <td>EI Je</td> <td>EOG</td> <td>Tetra Tech, Inc. 400 N. Big Spring Street. Ste 401 Midland Texas 78705 Tel (432) 682-3946 Fax (432) 682-3946 555 1006</td> | | | | (amos) | 1-6 (0-1') | T-5 (4') | T-5 (2') | T-5 (0-1') | T-4 (4') | T-4 (2') | T-4 (0-1') | T-3 (8') | T-3 (6') | T-3 (4') | | | | Run deeper sam 50 mg/kg | Xenc | Tetra | (county, Lea (| EI Je | EOG | Tetra Tech, Inc. 400 N. Big Spring Street. Ste 401 Midland Texas 78705 Tel (432) 682-3946 Fax (432) 682-3946 555 1006 |
| Tech, Inc. environment relevance | | Date | | 4-2-18 | Date | | | | | | | | | | | SAMPLE IDENTIF | | ples if TPH excee | o Midland Tx | 1 Tech, Inc. | County, New Me | fe BSJ Fed. Cor | | Tetra T |
| Image: Instrument of the second of | | Time: | | (130 | Time: | | | | | | | | | | | ICATION | | ds 5,000 mg/kg. Run | | | (ico | ım 1H | | ech, Inc |
| IN TIME IN TIME IN TIME IN TIME INT TIME <td>ORIGINAL</td> <td>Received by:</td> <td>neceived by:</td> <td>Bul</td> <td>3/29/2018 Received by:</td> <td>3/29/2018</td> <td>3/29/2018</td> <td>3/29/2018</td> <td>3/29/2018</td> <td>3/29/2018</td> <td>3/29/2018</td> <td>3/29/2018</td> <td>3/29/2018</td> <td>3/29/2018</td> <td>DATE</td> <td>YEAR: 2017</td> <td>SAMP</td> <td>deeper samples if I</td> <td>Sampler Signa</td> <td></td> <td>Project #:</td> <td></td> <td>Site Manager:</td> <td></td> | ORIGINAL | Received by: | neceived by: | Bul | 3/29/2018 Received by: | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | 3/29/2018 | DATE | YEAR: 2017 | SAMP | deeper samples if I | Sampler Signa | | Project #: | | Site Manager: | |
| And Control of the | СОРҮ | | | LACK | | | | | | | | | | | TIME | | LING | benzene ex | ture: | | | | | |
| MD-O1166 MD-O1166 MD-O1166 MD-O1166 MD-O1166 Circle or Specify Method No. MD-O1166 MD-O1166 MD-O1166 MD-O1166 MD-O1166 Circle or Specify Method No. MD-O1166 MD-O1108 MD-O10ED-DED-DED< | | D | | | × | × | × | × | × | × | × | × | × | × | WATE SOIL | R | MATRIX | (ceeds 10 n | Mike C | | 212C- | | lke Tavar | 4000 N. B 401 Mii Tel (Fax |
| MALYSTREPUER | | bate: Time: |)ate: lime: | 81141 | Ate: Time: | × | × | × | × | × | × | × | × | × | HCL HNO ₃ ICE None | | PRESERVATIV METHOD | ng/kg or Total | Carmona | | MD-01166 | | ez. | 3ig Spring Street, Ste dland,Texas 79705 (432) 682-4559 (432) 682-3946 |
| ANALYSIS REQUEST ANALYSIS REQUEST (Circle or Specify Method No.) PAH 8270C TOTAL Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg Children Construction Sample Temperature Rest Charges Authonized Special Report Limits or THAP Report (G-23: +0.2°C) (G-23: +0.2°C) (Fill Cr Children Charges Authonized Children Charges Charges Authonized Children Charges Char | | | | 11:31 | 1 N | 1 N | 1 Z | -1 Z | -1 Z | -1 Z | _1 Z | -1 Z | 1 Z | 1 Z | # CON ⁻ | | RS | BTEX exceeds | | | | | | |
| ANALYSIS REQUEST Cricle or Specify Method No.) ANALYSIS REQUEST (Circle or Specify Method No.) (Circle or Specify Method No.) (| (Circle) | | Sample | LAB | × | | | | | X | × | | _ | | втех а трн ту | 021B (1005 | BTE (Ext to | 0,7 X 8260E C35) | 3 | | | | | |
| ANALYSIS RECUEST ANALYSIS RECUEST TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI RUSH: Same Day 24 hr 48 hr 72 hr FIEND Limits or THRP Report Limits or THRP Report IR ID:R-8 RCI RUSH: Same Day 24 hr 48 hr 72 hr REMARKS: RCI RUSH: Same Day 24 hr 48 hr 72 hr REMARKS: | HAND DEL | D | Temperatu | JSE ON | × | | | | | X | × | | | | TPH 80 PAH 82 Total Me | 15M (70C | GRO - | DRO - C | Ph Se | MRO) Ha | | | 5 | |
| ACTION OF Control of the control of | Tem CF: | <u> </u> | • | | | | | | | | | | | | TCLP M | etals / olatiles | Ag As E S | 3a Cd Cr | Pb Se | Hg | | | Aľ | 5 |
| SPECUEST City Method No. SPECUEST City Method No. SPECUEST City Method No. PCB's 8082/608 NORM PCB's 8082/608 NORM PLM (Asbestos) Charges Authorized IR ID:R-8 IR ID:R-8 NORM NOR | p:7 | | | | | | | + | | | | + | | | TCLP S | | platiles | 624 | | | | r Spe | VALYS | 310 |
| ARD | UPS 9.2°C +0.2° | ial Repo | 1: San Charge | TAND | F | | | | | | | + | | | GC/MS | Semi. | Vol. 82 | 270C/625 | 5 | | | | S REO | 90G |
| IFID:R-8 PLM (Assests) Palmased to Improving: 9/12/2022 21 1/16 PM | Tracking | ort Limi | he Day es Auth | ARD | E | | | | | | \downarrow | | | | | haata | - | | | | | leth | QUES | |
| D: High Chloride Sulfate TDS Image: TDS Big High High General Water Chemistry (see attached list) Image: Anion/Cation Balance Time Time Time Time Time Big Time Time Time | ▼ R # | ts or T | 24 h orized | | × | × | × | × | × | × | × | × | × | × | Chloride | Desto | 5) | TZ P | | | | | Ĥ | |
| Point Principal Anion/Cation Balance No No No No No No No No Principal (2002) No No No Palagead to Imaging: 0/12/2022 No No | D:R-{ | RRP R | r 48 | | | | | | | | | | | (| Chloride General | e Su Wate | ulfate r Cher | TDS nistry (s | ee atta | ached I | ist) | | | |
| Palassed to Imaging: 9/12/2022 2:14:46 PM | ω | eport | hr 72 | | H | | - | - | - | - | - | - | - | / | Anion/C | ation | Balanc | e | | | | _ | | |
| Released to Imaging: 9/12/2022 2:11:46 PM | | | 2 hr | | | | | | | | | _ | | | | | | | | | | | | |
| | Rologood to In | aging | 0/12/24 | 000.00 | 11.1 | 6 D | | -+ | - | - | + | + | + | | hold | | | | | | | | | |

ge 64 of 122

| Received by OC | C D: 10 /1 | 4/2021 | 3:18 | <u>98 I</u> | M_{-} | , , , | | | | | | | | | | | | | <u>P</u> | age 65 of 12. |
|---|----------------------|----------------------------|---|------------------|---------|----------------------|-------------|-----------|-----------|--|---|------------------------------------|--|----------------------------|------------------|-----------------------------------|--------------------------|---------------|---|----------------------------------|
| | Relinquished by: | Relinquished by: | mr ita | Tolinguishod by: | | | | | | (LAB USE) | LAB # | | Comments: | Hecelving Laborat | | Project Location: state) | Project Name: | Client Name: | | Analysis Re |
| | r: Date: Time: | r Date: Time: | Corner 4-2-18 /130 | te Data Tima | | | T-6 (6') | T-6 (4') | T-6 (2') | | SAMPLE IDENTIFICATION | | Run deeper samples if TPH exceeds 5,000 mg/kg. I 50 mg/kg | atory: Xenco Midland Tx | Tetra Tech, Inc. | : (county, Lea County, New Mexico | El Jefe BSJ Fed. Comm 1H | EOG | Tetra Tech, Ir | quest of Chain of Custody Record |
| ORIGINAL COPY | Received by: | Received by: | Hecewed by: | | | | 3/29/2018 | 3/29/2018 | 3/29/2018 | DATE | YEAR: 2017 | SAMPLING | <mark>tun deeper samples if benzen</mark> | Sampler Signature: | | Project #: | | Site Manager: | IC. | |
| | Date: Time: | Date: Time: | $\begin{array}{c} \begin{array}{c} \text{Date: Time:} \\ \begin{array}{c} \text{U} \\ \end{array} \end{array} \\ \begin{array}{c} \text{U} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{U} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{U} \\ \end{array} \\ \begin{array}{c} \text{U} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{U} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{U} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{U} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{U} \\ \end{array} \\ $ | | | | × × × | × | X X | WATER SOIL HCL HNO₃ ICE None | | MATRIX PRESERVATIVE METHOD | e exceeds 10 mg/kg or Total B | Mike Carmona | | 212C-MD-01166 | | lke Tavarez | 4000 N. Big Spring Street, Ste 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 | |
| (Circ | | Sam | 1:31 4 | | | | 1 Z | 1 N | 1 N X | # CONTA FILTERE BTEX 80 | AINEF D (Y/ 21B | RS (N) BTE | TEX exceeds X 82606 | 3 | | | | | | |
| Ie) HAND DELIVEN | | ple Temperature | B USE ONLY | | | | | | × | TPH TX1 TPH 801: PAH 827 Total Meta TCLP Met | 005 (I 5M (0 0C als Ag tals Ag | Ext to GRO - As Ba g As B | C35) DRO - C a Cd Cr a Cd Cr | DRO - I Pb Se Pb Se | MRO) Hg Hg | | (Circle | | | |
| ^{En FENE} Y IIPS Tr Temp: Ҷ. Ҙ CF:(0-6: -0.2°C (6-23: +0.2° Corrected Temp | Special Report | Rush Charges | REMARKS: | | | | | | | TCLP Vola TCLP Sen RCI GC/MS Vo GC/MS Se PCB's 80 | atiles ni Vola ol. 82 emi. V 82 / 6 | atiles 60B / 0 /ol. 82 08 | 624 70C/625 | 5 | | | ∍ or Specify M | ANALYSIS REQI | 581004 | |
| nackinn #· IR ID:R-))))))))))))) | t Limits or TRRP Rep | Day 24 hr 48 hr | ΛRD | | | | × | × | × | NORM PLM (Asb Chloride Chloride General V Anion/Cat | estos) Sul Vater tion R |) fate Chen | TDS nistry (s e | ee atta | ached | list) | ethod No.) | UEST | 0 | Page |
| ∞ Released to Im | or aging: 9 | 72 hr 0/ 13/20 , | 22 2:1 | 4:46 | PM | | Par | 10 3 | 1 0 | Hold | | | | | Final | 1.000 | | | | оf G |

Received by OCD: 10/14/2021 3:18:08 PM

ATORIES





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: 04/02/2018 11:31:00 AM Temperature Measuring device used : R8 Work Order #: 581006 Sample Receipt Checklist Comments #1 *Temperature of cooler(s)? 4.1 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinguished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? No #18 Water VOC samples have zero headspace? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 04/02/2018

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 04/02/2018

Analytical Report 593475

for Tetra Tech- Midland

Project Manager: Clair Gonzales

EOG-Jefe BSJ Fed. Com 1H

212C-MD-01166

26-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) Received by OCD: 10/14/2021 3:18:08 PM



26-JUL-18

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

Reference: XENCO Report No(s): **593475 EOG-Jefe BSJ Fed. Com 1H** 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) 593475. 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. 593475 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,

MbcKie

Mike Kimmel Client Services Manager

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Sample Id

Sample Cross Reference 593475



EOG-Jefe BSJ Fed. Com 1H

| Matrix | Date Collected | Sample Depth | Lab Sample Id |
|--------|----------------|--------------|---------------|
| S | 07-24-18 00:00 | | 593475-001 |
| S | 07-24-18 00:00 | | 593475-002 |
| S | 07-24-18 00:00 | | 593475-003 |
| S | 07-24-18 00:00 | | 593475-004 |
| S | 07-24-18 00:00 | | 593475-005 |
| S | 07-24-18 00:00 | | 593475-006 |
| S | 07-24-18 00:00 | | 593475-007 |
| S | 07-24-18 00:00 | | 593475-008 |
| S | 07-24-18 00:00 | | 593475-009 |
| S | 07-24-18 00:00 | | 593475-010 |
| S | 07-24-18 00:00 | | 593475-011 |
| S | 07-24-18 00:00 | | 593475-012 |

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.



CASE NARRATIVE

BORATORIES Client Name: Tetra Tech- Midland Project Name: EOG-Jefe BSJ Fed. Com 1H

Project ID: 212C-MD-01166 Work Order Number(s): 593475 Report Date: 26-JUL-18 Date Received: 07/25/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3057747 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id:212C-MD-01166Contact:Clair GonzalesProject Location:Lea County NM

Certificate of Analysis Summary 593475

Tetra Tech- Midland, Midland, TX Project Name: EOG-Jefe BSJ Fed. Com 1H



Date Received in Lab:Wed Jul-25-18 09:34 amReport Date:26-JUL-18Project Manager:Kelsey Brooks

| | Lab Id: | 593475-0 | 001 | 593475-(| 002 | 593475- | 003 | 593475- | 004 | 593475-0 | 005 | 593475-(| 006 |
|-----------------------------------|------------|-------------------|--------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
| Analysis Paguastad | Field Id: | Bottom Hole #1 ((| 0-6") 2.5' B | Bottom Hole #1 S | South Sidew | Bottom Hole #1 I | East Sidewa | Bottom Hole #2 I | East Sidewa | Bottom Hole #2 V | Vest Sidewa | Bottom Hole #3 S | South Sidev |
| Analysis Kequestea | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-24-18 | 00:00 | Jul-24-18 (| 00:00 | Jul-24-18 | 00:00 | Jul-24-18 | 00:00 | Jul-24-18 (| 00:00 | Jul-24-18 (| 00:00 |
| BTEX by EPA 8021B | Extracted: | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 10:00 | |
| | Analyzed: | Jul-25-18 | 15:39 | Jul-25-18 | 16:00 | Jul-25-18 | 17:15 | Jul-25-18 | 17:37 | Jul-25-18 | 17:59 | Jul-25-18 1 | 18:20 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 |
| Toluene | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 |
| Ethylbenzene | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 |
| m,p-Xylenes | | < 0.00403 | 0.00403 | < 0.00399 | 0.00399 | < 0.00398 | 0.00398 | < 0.00401 | 0.00401 | < 0.00398 | 0.00398 | < 0.00403 | 0.00403 |
| o-Xylene | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 |
| Total Xylenes | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 |
| Total BTEX | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Jul-25-18 | 16:30 | Jul-25-18 | 16:30 | Jul-25-18 | 16:30 | Jul-25-18 | 16:30 | Jul-25-18 | 16:30 | Jul-25-18 1 | 16:30 |
| | Analyzed: | Jul-25-18 | 20:39 | Jul-25-18 2 | 20:23 | Jul-25-18 | 20:45 | Jul-25-18 | 21:01 | Jul-25-18 2 | 21:06 | Jul-25-18 2 | 21:12 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 248 | 4.95 | <5.02 | 5.02 | 10.4 | 4.95 | 170 | 4.98 | 55.4 | 4.97 | 79.2 | 4.96 |
| TPH By SW8015 Mod | Extracted: | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 1 | 10:00 |
| | Analyzed: | Jul-25-18 | 14:11 | Jul-25-18 | 14:31 | Jul-25-18 | 14:52 | Jul-25-18 | 15:13 | Jul-25-18 | 15:34 | Jul-25-18 1 | 16:37 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <14.9 | 14.9 | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Diesel Range Organics (DRO) | | <14.9 | 14.9 | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Oil Range Hydrocarbons (ORO) | | <14.9 | 14.9 | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Total TPH | | <14.9 | 14.9 | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |

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

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Project Id:212C-MD-01166Contact:Clair GonzalesProject Location:Lea County NM

Certificate of Analysis Summary 593475

Tetra Tech- Midland, Midland, TX Project Name: EOG-Jefe BSJ Fed. Com 1H



Date Received in Lab:Wed Jul-25-18 09:34 amReport Date:26-JUL-18Project Manager:Kelsey Brooks

| | Lab Id: | 593475-(| 007 | 593475-(| 008 | 593475- | 009 | 593475- | 010 | 593475-(| 011 | 593475-0 | 012 |
|-----------------------------------|------------|------------------|-------------|------------------|-------------|------------------|-------------|-------------------|-------------|------------------|-------------|------------------|-------------|
| Analysis Paguested | Field Id: | Bottom Hole #3 E | East Sidewa | Bottom Hole #4 N | lorth Sidew | Bottom Hole #4 S | South Sidev | Bottom Hole #5 \$ | South Sidew | Bottom Hole #6 (| 0-6") 4' BE | Bottom Hole #6 V | Vest Sidewa |
| Analysis Kequestea | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-24-18 (| 00:00 | Jul-24-18 (| 00:00 | Jul-24-18 | 00:00 | Jul-24-18 | 00:00 | Jul-24-18 (| 00:00 | Jul-24-18 | 00:00 |
| BTEX by EPA 8021B | Extracted: | Jul-25-18 | 10:00 | Jul-25-18 1 | 0:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 10:00 | |
| | Analyzed: | Jul-25-18 | 18:40 | Jul-25-18 1 | 9:00 | Jul-25-18 | 19:21 | Jul-25-18 | 19:42 | Jul-25-18 2 | 20:03 | Jul-25-18 20:25 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Toluene | | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Ethylbenzene | | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| m,p-Xylenes | | < 0.00401 | 0.00401 | <0.00399 | 0.00399 | < 0.00397 | 0.00397 | < 0.00403 | 0.00403 | < 0.00401 | 0.00401 | < 0.00399 | 0.00399 |
| o-Xylene | | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Total Xylenes | | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Total BTEX | | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Jul-25-18 | 16:30 | Jul-25-18 1 | 6:30 | Jul-25-18 | 16:30 | Jul-25-18 | 16:30 | Jul-25-18 | 16:45 | Jul-25-18 | 16:45 |
| | Analyzed: | Jul-25-18 | 21:17 | Jul-25-18 2 | 21:23 | Jul-25-18 | 21:28 | Jul-25-18 | 21:33 | Jul-25-18 2 | 22:06 | Jul-25-18 2 | 23:21 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <5.02 | 5.02 | 452 | 4.96 | 237 | 4.95 | 291 | 5.01 | 46.2 | 4.97 | <4.95 | 4.95 |
| TPH By SW8015 Mod | Extracted: | Jul-25-18 | 10:00 | Jul-25-18 1 | 0:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 | Jul-25-18 | 10:00 |
| | Analyzed: | Jul-25-18 | 16:58 | Jul-25-18 1 | 7:19 | Jul-25-18 | 18:01 | Jul-25-18 | 18:22 | Jul-25-18 | 18:43 | Jul-25-18 | 19:04 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 | 15.0 | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | 18.7 | 15.0 |
| Diesel Range Organics (DRO) | | <15.0 | 15.0 | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Oil Range Hydrocarbons (ORO) | | <15.0 | 15.0 | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Total TPH | | <15.0 | 15.0 | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | 18.7 | 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.

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LABORATORIES

Flagging Criteria



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- 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 Clier | nt Sample | BLK | Method Blank | | | | | | |
|-----------|---------------------------------------|-----------|-----------------------------|--------------------------------|--|--|--|--|--|
| BKS/LCS | Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labor | atory 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-Jefe BSJ Fed. Com 1H

| Work Or | ders : 59347 | 5, Sompley 502475 001 / SMB | Project ID: 212C-MD-01166 Patch: 1 Matrix: Soil | | | | | | | |
|-------------|---------------------|--|--|-----------------------|-----------------------|-------------------------|-------|--|--|--|
| Lab Datch | #: 3037773 | D 44 A = 1 = 2 07/05/10 14 11 | Datch | | . 5011 | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 14:11 | SU. | RROGATE R | ECOVERY S | STUDY | | | | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1-Chlorooct | ane | | 87.7 | 99.6 | 88 | 70-135 | | | | |
| o-Terphenyl | 1 | | 41.8 | 49.8 | 84 | 70-135 | | | | |
| Lab Batch | #: 3057775 | Sample: 593475-002 / SMP | Batch | n: 1 Matrix | Soil | 11 | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 14:31 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1-Chlorooct | ane | Anarytes | 96.1 | 00.7 | 07 | 70.125 | | | | |
| o-Terphenyl | | | 41.8 | 99.7 40.0 | 84 | 70-135 | | | | |
| Lab Batch | #• 3057775 | Sample: 593475-003 / SMP | Batch | · 1 Matrix | Soil | 70-155 | | | | |
| Lab Daten | mg/kg | Date Analyzed: $07/25/18 \ 14.52$ | | | | |] | | | |
| Cints. | ing/kg | Date Analyzed: 01/25/10 14.52 | S U. | KRUGAIE K | ECOVERYS | | | | | |
| | TPH I | 3y SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| | | Analytes | | | [D] | | | | | |
| 1-Chlorooct | ane | | 84.1 | 99.6 | 84 | 70-135 | | | | |
| o-Terphenyl | 1 | | 40.2 | 49.8 | 81 | 70-135 | | | | |
| Lab Batch | #: 3057775 | Sample: 593475-004 / SMP | Batch | n: 1 Matrix: | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 15:13 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1-Chlorooct | ane | | 94.3 | 99.9 | 94 | 70-135 | | | | |
| o-Terphenyl | l | | 47.9 | 50.0 | 96 | 70-135 | | | | |
| Lab Batch | #: 3057775 | Sample: 593475-005 / SMP | Batch | n: 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 15:34 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1-Chlorooct | ane | | 86.0 | 99.8 | 86 | 70-135 | | | | |
| o-Terphenyl | | | 42.5 | 49.9 | 85 | 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



| Work Oi Lab Batch | r ders : 59347 #: 3057747 | 75, Sample: 593475-001 / SMP | Project ID: 212C-MD-01166 P Batch: 1 Matrix: Soil | | | | | | | |
|----------------------|-------------------------------------|---------------------------------|--|-----------------------|-----------------------|-------------------------|-------|--|--|--|
| Units: | mg/kg | Date Analyzed: 07/25/18 15:39 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1,4-Difluor | obenzene | | 0.0322 | 0.0300 | 107 | 70-130 | | | | |
| 4-Bromoflu | orobenzene | | 0.0267 | 0.0300 | 89 | 70-130 | | | | |
| Lab Batch | #: 3057747 | Sample: 593475-002 / SMP | Batch | n: 1 Matrix | : Soil | 1 | I | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 16:00 | SU | RROGATE R | ECOVERY | STUDY | | | | |
| | BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1 4-Difluor | obenzene | Anarytes | 0.0295 | 0.0300 | 98 | 70-130 | | | | |
| 4-Bromoflu | orobenzene | | 0.0268 | 0.0300 | 89 | 70-130 | | | | |
| Lab Batch | #: 3057775 | Sample: 593475-006 / SMP | Batch | n: 1 Matrix | : Soil | /0 150 | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 16:37 | SU | RROGATE R | ECOVERY | STUDY | | | | |
| | TPH | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1 Chloroco | tana | Analytes | 74.7 | 100 | | 70.125 | | | | |
| 1-Chlorooc | 1 | | 74.7 | 100 | 75 | 70-135 | | | | |
| Lob Botch | #• 3057775 | Sample: 593475 007 / SMP | 35.0 Botch | 50.0 | /0 . Soil | /0-135 | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 16:58 | 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-Chlorooc | tane | | 69.9 | 99.7 | 70 | 70-135 | | | | |
| o-Terpheny | 1 | | 34.9 | 49.9 | 70 | 70-135 | | | | |
| Lab Batch | #: 3057747 | Sample: 593475-003 / SMP | Batch | n: 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 17:15 | SU. | RROGATE R | ECOVERY | STUDY | | | | |
| | BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| | | | | | | | | | | |
| 1.4-Difluor | obenzene | | 0.0322 | 0.0300 | 107 | 70-130 | | | | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: EOG-Jefe BSJ Fed. Com 1H

| Work Or | ders: 59347 | 5, Sample: 593475-008 / SMP | Rotek | Project ID: | 212C-MD-0 Soil | 1166 | | |
|--------------|--------------------|--------------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|--|
| Units: | mo/ko | Date Analyzed: 07/25/18 17:19 | STI | DDOCATE DI | | | | |
| | ing/kg | Dute mility2ed: 07/25/1017.19 | 50. | KKUGAIE KI | | | | |
| | TPH] | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | |
| 1-Chloroocta | ane | | 85.0 | 99.8 | 85 | 70-135 | | |
| o-Terphenyl | | | 42.1 | 49.9 | 84 | 70-135 | | |
| Lab Batch | #: 3057747 | Sample: 593475-004 / SMP | Batch | n: 1 Matrix: | Soil | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 17:37 | SU | RROGATE RI | ECOVERY S | STUDY | | |
| | BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | |
| 1 4-Difluoro | benzene | | 0.0310 | 0.0300 | 103 | 70-130 | | |
| 4-Bromofluc | orobenzene | | 0.0258 | 0.0300 | 86 | 70-130 | | |
| Lab Batch | #: 3057747 | Sample: 593475-005 / SMP | Batch | n: 1 Matrix: | Soil | 70 150 | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 17:59 | SU | RROGATE RI | ECOVERYS | STUDY | | |
| | BTE | X by EPA 8021B | Amount Found | True Amount [B] | Recovery %R | Control Limits %R | Flags | |
| | | Analytes | [1] | [17] | [D] | | | |
| 1,4-Difluoro | benzene | | 0.0322 | 0.0300 | 107 | 70-130 | | |
| 4-Bromofluc | orobenzene | | 0.0267 | 0.0300 | 89 | 70-130 | | |
| Lab Batch | #: 3057775 | Sample: 593475-009 / SMP | Batch | n: 1 Matrix: | Soil | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 18:01 | SU | RROGATE RI | ECOVERY S | STUDY | | |
| | TPH | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | |
| 1-Chloroocta | ane | | 84.3 | 99.6 | 85 | 70-135 | | |
| o-Terphenyl | | | 42.6 | 49.8 | 86 | 70-135 | | |
| Lab Batch | #: 3057747 | Sample: 593475-006 / SMP | Batch | n: 1 Matrix: | Soil | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 18:20 | SU | RROGATE RI | ECOVERY S | STUDY | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | |
| 1,4-Difluoro | benzene | | 0.0322 | 0.0300 | 107 | 70-130 | | |
| 4-Bromofluc | Bromofluorobenzene | | | 0.0300 | 88 | 70-130 | | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



| Work Or | rders: 59347 | 5, Samula 502475 010 / SMD | Project ID: 212C-MD-01166 | | | | | | | | |
|-------------|--------------|---------------------------------|---------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|--|
| Lab Batch | #: 3057775 | Sample: 593475-0107 SMP | | | | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 18:22 | SU | RROGATE R | ECOVERY | STUDY | | | | | |
| | TPH | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | tane | | 85.0 | 99.9 | 85 | 70-135 | | | | | |
| o-Terpheny | 1 | | 43.2 | 50.0 | 86 | 70-135 | | | | | |
| Lab Batch | #: 3057747 | Sample: 593475-007 / SMP | Batch | h: 1 Matrix | : Soil | 11 | I | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 18:40 | SU | RROGATE R | ECOVERY | STUDY | | | | | |
| | BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1.4 Difluor | hanzana | Anarytes | 0.0220 | 0.0200 | 110 | 70.120 | | | | | |
| 1,4-Diluolo | orobenzene | | 0.0350 | 0.0300 | 00 | 70-130 | | | | | |
| Lah Batch | #• 3057775 | Sample: 593475-011 / SMP | Batcl | 0.0300 h• 1 Matrix | • Soil | 70-150 | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 18:43 | SU | RROGATE R | ECOVERY S | STUDY | | | | | |
| | TPH | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | tane | | 84.0 | 00.8 | 85 | 70.125 | | | | | |
| o-Terpheny | 1 | | 41.6 | 49.9 | 83 | 70-135 | | | | | |
| Lab Batch | #: 3057747 | Sample: 593475-008 / SMP | Batcl | h: 1 Matrix | : Soil | 10 155 | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 19:00 | SU | RROGATE R | ECOVERY | STUDY | | | | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1,4-Difluor | obenzene | | 0.0312 | 0.0300 | 104 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0261 | 0.0300 | 87 | 70-130 | | | | | |
| Lab Batch | #: 3057775 | Sample: 593475-012 / SMP | Batch | h: 1 Matrix | : Soil | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 19:04 | SU | RROGATE R | ECOVERYS | STUDY | | | | | |
| | TPH | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | tane | | 76.7 | 99.8 | 77 | 70-135 | | | | | |
| | | | | 1 | | | | | | | |

* 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



| Work O | rders: 59347 | ⁷ 5, | Project ID: 212C-MD-01166 | | | | | | | |
|--------------|--------------|--------------------------------------|---------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|
| Lab Batch | #: 305//4/ | Sample: 593475-0097 SMP | Batch | : 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 19:21 | SUI | RROGATE R | ECOVERYS | STUDY | | | | |
| | BTE | A polytos | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1 4 Differen | -1 | Analytes | 0.0211 | 0.0200 | 104 | 70.120 | | | | |
| 1,4-Diffuor | obenzene | | 0.0311 | 0.0300 | 104 | 70-130 | | | | |
| 4-Bromotiu | H 2057747 | Complex 502475 010 / SMD | 0.0260 | 0.0300 | 87 | 70-130 | | | | |
| Lab Batch | #: 305//4/ | Sample: 593475-0107 SMP | Batch | | : 5011 | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 19:42 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1 4-Difluor | obenzene | | 0.0324 | 0.0300 | 108 | 70-130 | | | | |
| 4-Bromoflu | orobenzene | | 0.0324 | 0.0300 | 01 | 70-130 | | | | |
| Lah Batch | #• 3057747 | Sample: 593475-011 / SMP | Batch | • 1 Matrix | · Soil | 70-150 | | | | |
| Unite. | mg/kg | Date Analyzed: 07/25/18 20:03 | | | | | | | | |
| | mg/kg | Date Analyzeu. 07/25/18 20:05 | SU | RROGATE R | ECOVERY | STUDY | | | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1,4-Difluor | obenzene | • | 0.0319 | 0.0300 | 106 | 70-130 | | | | |
| 4-Bromoflu | orobenzene | | 0.0266 | 0.0300 | 89 | 70-130 | | | | |
| Lab Batch | #: 3057747 | Sample: 593475-012 / SMP | Batch | : 1 Matrix | : Soil | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 20:25 | SU | RROGATE R | ECOVERY S | STUDY | | | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1,4-Difluor | obenzene | | 0.0323 | 0.0300 | 108 | 70-130 | | | | |
| 4-Bromoflu | orobenzene | | 0.0256 | 0.0300 | 85 | 70-130 | | | | |
| Lab Batch | #: 3057775 | Sample: 7659108-1-BLK / I | BLK Batch | : 1 Matrix | : Solid | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 10:49 | 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-Chlorooci | tane | | 101 | 100 | 101 | 70-135 | | | | |
| o-Ternheny | 1 | | 53.0 | 50.0 | 101 | 70-135 | | | | |
| 0-1 crpneny | 1 | | 55.0 | 50.0 | 100 | /0-155 | | | | |

* 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



| Work Or Lab Batch | r ders : 59347 #: 3057747 | 75, Sample: 7659101-1-BLK / | BLK Batch | Project ID: : 1 Matrix | 212C-MD-(Solid |)1166 | | | | | |
|----------------------|-------------------------------------|--------------------------------------|----------------------------------|---------------------------|-----------------------|-------------------------|-------|--|--|--|--|
| Units: | mg/kg | Date Analyzed: 07/25/18 12:10 | SUI | RROGATE R | ECOVERY | STUDY | | | | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1,4-Difluoro | obenzene | | 0.0323 | 0.0300 | 108 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0251 | 0.0300 | 84 | 70-130 | | | | | |
| Lab Batch | #: 3057747 | Sample: 7659101-1-BKS / | BKS Batch | : 1 Matrix | : Solid | 1 | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 10:26 | SUI | RROGATE R | ECOVERY | STUDY | | | | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1,4-Difluoro | obenzene | <i></i> | 0.0312 | 0.0300 | 104 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0241 | 0.0300 | 80 | 70-130 | | | | | |
| Lab Batch | #: 3057775 | Sample: 7659108-1-BKS / | BKS Batch | : 1 Matrix | : Solid | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 11:09 | 8 11:09 SURROGATE RECOVERY STUDY | | | | | | | | |
| | TPH | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | tane | | 123 | 100 | 123 | 70-135 | | | | | |
| o-Terpheny | 1 | | 56.7 | 50.0 | 113 | 70-135 | | | | | |
| Lab Batch | #: 3057747 | Sample: 7659101-1-BSD / | BSD Batch | : 1 Matrix | : Solid | 10 100 | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 10:47 | SUI | RROGATE R | ECOVERY | STUDY | | | | | |
| | BTE | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1,4-Difluoro | obenzene | | 0.0331 | 0.0300 | 110 | 70-130 | | | | | |
| 4-Bromoflu | orobenzene | | 0.0257 | 0.0300 | 86 | 70-130 | | | | | |
| Lab Batch | #: 3057775 | Sample: 7659108-1-BSD / | BSD Batch | : 1 Matrix | : Solid | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 11:29 | SUI | RROGATE R | ECOVERY | STUDY | | | | | |
| | TPH] | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooct | tane | | 127 | 100 | 127 | 70-135 | | | | | |
| o-Terpheny | 1 | | 56.4 | 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



| Work O | rders: 59347 | 5, 5, 502216 006 5 (MS | D - 4 -1 | Project ID: | 212C-MD-0 | 1166 | |
|-------------|--------------|--------------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| Lab Batch | #: 3057747 | Sample: 593210-000 S7 MS | Batch | i: 1 Matrix: | 5011 | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 11:07 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | BTEX | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluor | obenzene | | 0.0325 | 0.0300 | 108 | 70-130 | |
| 4-Bromoflu | ıorobenzene | | 0.0257 | 0.0300 | 86 | 70-130 | |
| Lab Batch | #: 3057775 | Sample: 593337-001 S / MS | Batch | n: 1 Matrix: | Soil | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 12:09 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | TPH I | 3y SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooc | tane | | 124 | 99.7 | 124 | 70.135 | |
| o-Terpheny | | | 48.2 | 40.0 | 07 | 70-135 | |
| Lob Potob | #• 3057747 | Sample: 593216 006 SD / M | 40.2 | 49.9 | Soil | /0-155 | |
| | 1#: 3037747 | Sample: 393210-000 SD / W | ISD Date | | 5011 | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 11:28 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | ВТЕХ | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [2] | | |
| 1,4-Difluor | obenzene | | 0.0320 | 0.0300 | 107 | 70-130 | |
| 4-Bromoflu | lorobenzene | | 0.0257 | 0.0300 | 86 | 70-130 | |
| Lab Batch | a #: 3057775 | Sample: 593337-001 SD / N | ISD Batch | n: 1 Matrix: | Soil | | |
| Units: | mg/kg | Date Analyzed: 07/25/18 12:29 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooc | etane | | 125 | 99.9 | 125 | 70-135 | |
| o-Terpheny | /1 | | 47.1 | 50.0 | 94 | 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-Jefe BSJ Fed. Com 1H

| Work Order | #: 593475 | | | | | | Proj | ect ID: | 212C-MD-(| 01166 | | | |
|-----------------|---|-------------------------------|-----------------------|---------------------------------|-----------------------------|--------------------------------------|---|-------------------------------|---------------|-------------------------|---------------------------|------|--|
| Analyst: | ALJ | D | ate Prepai | red: 07/25/201 | 8 | | | Date A | nalyzed: (| 07/25/2018 | | | |
| Lab Batch ID: | : 3057747 Sample: 7659101-1 | -BKS Batch #: 1 | | | | | | | Matrix: Solid | | | | |
| Units: | mg/kg | | BLAN | K /BLANK S | SPIKE /] | BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | |
| | 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] | | լոյ | [E] | Kesuit [F] | [G] | | | | | |
| Benzene | | < 0.00200 | 0.100 | 0.0990 | 99 | 0.0998 | 0.102 | 102 | 3 | 70-130 | 35 | | |
| Toluene | | < 0.00200 | 0.100 | 0.0966 | 97 | 0.0998 | 0.0993 | 99 | 3 | 70-130 | 35 | | |
| Ethylbenze | ene | < 0.00200 | 0.100 | 0.108 | 108 | 0.0998 | 0.111 | 111 | 3 | 70-130 | 35 | | |
| m,p-Xylen | ies | < 0.00401 | 0.200 | 0.214 | 107 | 0.200 | 0.220 | 110 | 3 | 70-130 | 35 | | |
| o-Xylene | | < 0.00200 | 0.100 | 0.104 | 104 | 0.0998 | 0.108 | 108 | 4 | 70-130 | 35 | | |
| Analyst: | SCM | D | ate Prepai | red: 07/25/201 | 8 | | | Date A | nalyzed: (| 07/25/2018 | • | | |
| Lab Batch ID: | : 3057784 Sample: 7659096-1 | -BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | | |
| Units: | mg/kg | | BLAN | K /BLANK S | SPIKE / 1 | BLANK S | SPIKE DUP | LICATE | RECOV | ERY STUI | DY | | |
| 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 | | <4.99 | 250 | 256 | 102 | 250 | 252 | 101 | 2 | 90-110 | 20 | | |

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

Version: 1.%



BS / BSD Recoveries



Project Name: EOG-Jefe BSJ Fed. Com 1H

| Work Order #: | : 593475 | | | | | | | Proj | ject ID: | 212C-MD-(|)1166 | |
|---|--|--|--|---|---|--|--|---|---|--|---------------------------------------|------|
| Analyst: S | SCM | D | ate Prepar | ed: 07/25/201 | 8 | | | Date A | nalyzed: (| 07/25/2018 | | |
| Lab Batch ID: 3 | Sample: 7659098-1- | -BKS | Batcl | n #: 1 | | | | | Matrix: S | Solid | | |
| Units: m | ng/kg | | BLAN | K /BLANK S | SPIKE / I | BLANK S | SPIKE DUP | LICATE | RECOV | ERY STUI | ЭY | |
| Inorgani | ic Anions by EPA 300/300.1 | Blank Sample Result [A] | Spike Added | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Chlorida | 28 | .4.00 | 250 | | 101 | 250 | | 106 | | 00.110 | 20 | |
| Chioride | | <4.99 | 250 | 253 | 101 | 250 | 266 | 106 | 5 | 90-110 | 20 | |
| | | | | | | | | | | | | |
| Analyst: A | ARM | D | ate Prepar | ed: 07/25/201 | 8 | | 1 | Date A | nalyzed: (| 07/25/2018 | ļ | ļI |
| Analyst: A Lab Batch ID: 3 | ARM 3057775 Sample: 7659108-1- | D -BKS | ate Prepar Batcl | ed: 07/25/201 | 8 | | I | Date A | nalyzed: (Matrix: S |)7/25/2018 Solid | 1 | I |
| Analyst: A Lab Batch ID: 3 Units: m | ARM 3057775 Sample: 7659108-1- ng/kg | -BKS | ate Prepar Batcl BLAN | ed: 07/25/201 h #: 1 K /BLANK \$ | 18 SPIKE / 1 | BLANK S | SPIKE DUP | Date A | nalyzed: (Matrix: S RECOVI |)7/25/2018 Solid E RY STUI | DY | |
| Analyst: A Lab Batch ID: 3 Units: m T Analyte: | ARM 3057775 Sample: 7659108-1- ng/kg FPH By SW8015 Mod | D -BKS Blank Sample Result [A] | ate Prepar Batcl BLAN Spike Added [B] | ed: 07/25/201 h #: 1 K /BLANK S Blank Spike Result [C] | 8 SPIKE / 1 Blank Spike %R [D] | BLANK S Spike Added [E] | Blank Spike Duplicate Result [F] | Date A LICATE Blk. Spk Dup. %R [G] | nalyzed: (Matrix: S RECOVI RPD % | 07/25/2018 Solid ERY STUI Control Limits %R | OY Control Limits %RPD | Flag |
| Analyst: A Lab Batch ID: 30 Units: m T Analyte: Gasoline Ran | ARM 3057775 Sample: 7659108-1- ng/kg FPH By SW8015 Mod es nge Hydrocarbons (GRO) | -BKS Blank Sample Result [A] <15.0 | ate Prepar Batcl BLAN Spike Added [B] 1000 | ed: 07/25/201 h #: 1 K /BLANK S Blank Spike Result [C] 960 | 8 SPIKE / 1 Blank Spike %R [D] 96 | BLANK S Spike Added [E] 1000 | Blank Spike Duplicate Result [F] 978 | Date A LICATE Blk. Spk Dup. %R [G] 98 | nalyzed: (Matrix: S RECOVI RPD % | 07/25/2018 Solid ERY STUE Control Limits %R 70-135 | DY Control Limits %RPD 20 | Flag |

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

Version: 1.%



Form 3 - MS / MSD Recoveries



Project Name: EOG-Jefe BSJ Fed. Com 1H

| Work Order # : | 593475 | | | | | | Project II |): 212C-1 | MD-0116 | 6 | | |
|-------------------------|-----------------------------|----------------------------|----------------|--------------------------------|------------------------|----------------|--|----------------------|----------|-------------------------|---------------------------|------|
| Lab Batch ID: | 3057747 | QC- Sample ID: | 593216 | -006 S | Ba | tch #: | 1 Matrix | k: Soil | | | | |
| Date Analyzed: | 07/25/2018 | Date Prepared: | 07/25/2 | 018 | Ar | nalyst: 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] | 1105010 [1] | [G] | | , •22 | /01112 | |
| Benzene | | <0.00198 | 0.0992 | 0.0731 | 74 | 0.0996 | 0.0720 | 72 | 2 | 70-130 | 35 | |
| Toluene | | < 0.00198 | 0.0992 | 0.0699 | 70 | 0.0996 | 0.0675 | 68 | 3 | 70-130 | 35 | X |
| Ethylbenzene | | < 0.00198 | 0.0992 | 0.0765 | 77 | 0.0996 | 0.0718 | 72 | 6 | 70-130 | 35 | |
| m,p-Xylenes | | < 0.00397 | 0.198 | 0.150 | 76 | 0.199 | 0.141 | 71 | 6 | 70-130 | 35 | |
| o-Xylene | | < 0.00198 | 0.0992 | 0.0730 | 74 | 0.0996 | 0.0695 | 70 | 5 | 70-130 | 35 | |
| Lab Batch ID: | 3057784 | QC- Sample ID: | 593475 | -002 S | Ba | tch #: | 1 Matrix | k: Soil | | | | |
| Date Analyzed: | 07/25/2018 | Date Prepared: | 07/25/2 | 018 | Ar | halyst: 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 | Spike | Spiked Sample Result | Spiked 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 | | <5.02 | 251 | 267 | 106 | 251 | 257 | 102 | 4 | 90-110 | 20 | |
| Lab Batch ID: | 3057784 | QC- Sample ID: | 593503 | -001 S | Ba | tch #: | 1 Matrix | k: Soil | | | | |
| Date Analyzed: | 07/25/2018 | Date Prepared: | 07/25/2 | 018 | Ar | nalyst: 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] | [-] | [D] | [E] | | [G] | | | | |
| Chloride | | <5.00 | 250 | 265 | 106 | 250 | 262 | 105 | 1 | 90-110 | 20 | |

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

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

Page 17 of 21



Form 3 - MS / MSD Recoveries

Project Name: EOG-Jefe BSJ Fed. Com 1H



| Work Order # : | 593475 | | | | | | Project II | D: 212C-1 | MD-01166 | 5 | | |
|-------------------------|---|-------------------------------------|----------------|--------------------------------|------------------------|----------------|--|----------------------|------------|-------------------------|---------------------------|------|
| Lab Batch ID: | 3057787 | QC- Sample ID: | 593475 | -011 S | Ba | tch #: | 1 Matrix | x: Soil | | | | |
| Date Analyzed: | 07/25/2018 | Date Prepared: | 07/25/2 | 018 | Ar | alyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | Μ | ATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY S | STUDY | | |
| Inorga | nic Anions by EPA 300/300.1 | Parent Sample | Spike | Spiked Sample Result | Spiked 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 | | 46.2 | 249 | 307 | 105 | 249 | 309 | 106 | 1 | 90-110 | 20 | |
| Lab Batch ID: | 3057787 | QC- Sample ID: | 593475 | -012 S | Ba | tch #: | 1 Matrix | x: Soil | | | | |
| Date Analyzed: | 07/25/2018 | Date Prepared:07/25/2018Analyst:SCM | | | | | | | | | | |
| Reporting Units: | g Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | |
| Inorga | nic Anions by EPA 300/300.1 | Parent Sample Bacult | Spike | Spiked Sample Result | Spiked Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Kesult [F] | %R [G] | % 0 | % K | %RPD | |
| Chloride | | <4.95 | 248 | 258 | 104 | 248 | 258 | 104 | 0 | 90-110 | 20 | |
| Lab Batch ID: | 3057775 | QC- Sample ID: | 593337 | -001 S | Ba | tch #: | 1 Matrix | x: Soil | | | | |
| Date Analyzed: | 07/25/2018 | Date Prepared: | 07/25/2 | 018 | Ar | alyst: A | ARM | | | | | |
| Reporting Units: | mg/kg | | Μ | ATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY S | STUDY | | |
| | TPH By SW8015 Mod | 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] | [~] | [D] | [E] | - court [r] | [G] | | /// | | |
| Gasoline Range | Hydrocarbons (GRO) | <15.0 | 997 | 939 | 94 | 999 | 944 | 94 | 1 | 70-135 | 20 | |
| Diesel Range O | rganics (DRO) | <15.0 | 997 | 1000 | 100 | 999 | 1010 | 101 | 1 | 70-135 | 20 | |

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

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

Page 18 of 21

| ceived by (| CD: Relinquished by: | /14/2 | Selinguished by: | Heinquished by: | a :00 | S PA | | | σ | σ | σ | B | œ | B | (LAB USE) | LAB # | | Comments: | Receiving Laborato | Invoice to: | Project Location: (county, state) | Project Name: | | p J | analysis Req |
|---------------------|----------------------|-------------------|------------------|-----------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|---|-------------------------------------|---------------------------------------|--|-------------------------|------------------|---------------------------------------|---------------|--------------|--|------------------------|
| | | | | Comment | ottom Hole #5 South Side | ottom Hole #4 South Side | ottom Hole #4 North Sidev | ottom Hole #3 East Sidew | ottom Hole #3 South Side | ottom Hole #2 West Sidev | ottom Hole #2 East Sidev | ottom Hole #1 East Sidew | ottom Hole #1 South Side | ottom Hole #1 (0-6") 2.5' E | | SAMPLE | | Jr How | ry: Xenco | EOG-Jamon H | Lea County, N | Jefe BSJ Fed. | EOG | Tetr | uest of Chain of Custo |
| | Date: Time: | | Date: Time: | 7/25/18 C | wall | wall. | vall | a | wall | vall | all | a | wall | 3EB | | DENTIFICATION | | Push | | ohensee | ew Mexico | Com 1H | | a Tech. I | dy Record |
| ORIGIN | Received | | Received | 134 Reddived | 7/24/20 | 7/24/201 | 7/24/20- | 7/24/201 | 7/24/201 | 7/24/201 | 7/24/201 | 7/24/201 | 7/24/201 | 7/24/201 | DATE | YEAR: 2018 | SA | | Sampler Si | | Project #: | | Site Manag | nc. | |
| AL COPY | by: | | by: | LAMOR | | 18 X | 18 X | 18 X | 18 X | 18 X | 18 X | 18 X | 18 X | 18 X | TIME WATEF SOIL | ~ | MPLING MATRI | | gnature: Mike | | 212 | | " Clair G | 4000 N 401 T | |
| | Date: Time: | | Date: Time: | Date: Time: コノコム の | X | × | X | × | X | X | × | × | × | X | HCL HNO ₃ ICE None | | X PRESERVATIVE METHOD | | e Carmona | | C-MD-01166 | | ionzules | I. Big Spring Street, Ste Midland,Texas 79705 el (432) 682-4559 ax (432) 682-3946 | |
| | | | | ス レス | 1 N | 1 N | 1 N N | 1 N | 1 N 1 | 1 N) | 1 N 1 | 1 N | 1 N 1 | 1 N X | # CONT | | RS (/N) | X 8260 | 3 | | | | | | |
| Circle) HAND DELIVE | Sid Sid | ample Temperature | | ONLY ONLY | ₩ ₩ | ¥ × | | | | | | | 4 x 1 | | TPH TX TPH 801 PAH 827 Total Met | 1005 15M (70C tais A | (Ext to GRO - g As B Ag As B | C35) - DRO - 1 - a Cd Cr Ba Cd Ci | ORO - Pb Se Pb Se | MRO) Hg Hg | · · · · · · · · · · · · · · · · · · · | | | R | |
| RED FEDEX UPS | Special Rep | Rush Charg | RUSH: Sa | REMARKS: | | | | | | | | | | | TCLP Vo TCLP Se RCI GC/MS V GC/MS S | latiles mi Vo /ol. 8 Semi. | blatiles 260B / Vol. 8 | 624 270C/62 | 5 | | | | ANALYSIS REC | 13475 | |
| Tracking #: | ort Limits or TRRP I | es Authorized | me Day 24 hr 48 | DARD | × | × | × | × | × | × | × | × | × | × | NORM PLM (Asl Chloride General | besto Si Wate | s) ulfate er Chei | TDS mistry (s | ee att | ached I | ist) | | QUEST | | Page |
| | Report | 0.15 | hr 72 hr | 000.0 | | | | | | | | | | | Anion/Ca | ation | Balano | ce | | | | | | | 1 of |

| ea by C | CD: telinquished by: | /14/. | Relinquished by: | Relinquished by: | :08 | РМ | | | | | | (LABUSE) | LAB # | | Comments: | Receiving Laborat | Invoice to: | Project Location: (county, state) | Project Name: | | | 286 0 Analysis Rec |
|------------|----------------------|--------------|------------------|------------------|------|-------|---|---|-----|------------------------------|------------------------------|--------------------------------|------------------------|------------------|------------------|-------------------|--------------------|--------------------------------------|----------------------|---------------|---|---------------------------------|
| | Date: Time: | | . [| | | | | | | 3ottom Hole #6 West Sidewall | 3ottom Hole #6 (0-6") 4' BEB | | SAMPLE IDENTIFICATION | | 24 hour Kush | ery: Xenco | EOG-Jamon Hohensee | Lea County, New Mexico | Jefe BSJ Fed. Com 1H | EOG | Tetra Tech. Inc. | uest of Chain of Custody Record |
| ORIGINAL (| Received by: | ~ | Redeived by: | Received by: | > | | | | | 7/24/2018 | 7/24/2018 | DATE | YEAR: 2018 | SAMPLI | | Sampler Signatu | | Project #: | | olle Mahayer. | 7 % K | |
| COPY | | | ANNE | V NV V | | | | | | × | × | TIME WATE SOIL | R | NG MATI | | re: Mi | | 21 | | Clair | 400 40 | |
| | Date: Tin | | Date: Tin | ○ Date: Tin | | | | | | × | × | HCL HNO ₃ ICE | | | | ke Carmona | | 2C-MD-01166 | | Gonzales | D N. Big Spring Street, St 1 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 | |
| | ne: | | ii D | | | | | | | 1 N | 1 N | # CONT | | RS | | | | | | | e | |
| (Circle | \frown | Sample | <u> </u> | | | | | | | \mathbf{x} | × | BTEX 8 TPH TX | 021B 1005 | BTE (Ext to | X 8260E C35) | 3 | | I | | L | | |
| HAND DE | 10G | | ONLY | AB USE | | | | | | ≻ | × | TPH 80 PAH 82 Total Me | 15M (70C tals A | GRO g As B | DRO - (| DRO - Pb Se | MRO) Hg | | (| | | |
| LIVERED | | د – | | REN | | | | | | | | TCLP M | etals / | Ag As I S | Ba Cd Cr | Pb Se | Hg | | | AN' | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| FEDEX | | | Ϋ́Russ | ARKS: | | | | - | | | | RCI GC/MS | /oi. 8 | 260B / | 624 | | | | | ALYSIS | $\frac{10}{2}$ | |
| UPS 1 | al Report | Charnes | : Same | | | | | | | | | GC/MS | Semi. 082 / | Vol. 8 608 | 270C/62 | 5 | | | | REQU | | |
| Fracking # | Limits o | Authoriz | Day (2) | P C | | | | + | ┝─┨ | × | × | NURM PLM (As Chloride | besto | s) | | | | | | IEST | 1 | Page |
| | r TRRP I | ደ (| 4 hr 48 | | | | | | | | | Chloride General | S Wate | ulfate er Che | TDS mistry (s | ee att | ached I | ist) | | Ž | U | |
| | Report | | hr 72 | | | | | | | | | Anion/C | ation | Balan | ce | | | | | | | 20 |
| | | | r, | | | | | | | | | | | | | | | | | | | - |
| sed to I | maging: | <i>9/1</i> : | 3/2022 | 2 2: | 14:4 | 16 P. | M | | | age | 20 0 | Hold | | | | | Final | T.000 | , | | | N |

Received by OCD: 10/14/2021 3:18:08 PM



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: 07/25/2018 09:34:00 AM Temperature Measuring device used : R8 Work Order #: 593475 Comments Sample Receipt Checklist .3 #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 TPH received in bulk jars #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 No

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

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

Analyst:

PH Device/Lot#:

Date: 07/25/2018

N/A

Checklist completed by: Connie Hernandez Checklist reviewed by: Kelsey Brooks

Date: 07/26/2018

Released to Imaging: 9/13/2022 2:14:46 PM

Analytical Report 594127

for Tetra Tech- Midland

Project Manager: Clair Gonzales

Jefe BSJ FED.Com 1H

212-C-MD-01166

02-AUG-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) Received by OCD: 10/14/2021 3:18:08 PM



02-AUG-18

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

Reference: XENCO Report No(s): **594127 Jefe BSJ FED.Com 1H** 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) 594127. 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. 594127 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,

fession promer

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

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Sample Id

| Bottom Hole #1 West Side Wall |
|---------------------------------|
| Bottom Hole #3 North Side Wall |
| Bottom Hole #3 (0-6") 4'-5' BEB |
| Bottom Hole #5 North Side Wall |
| Bottom Hole #6 North Side Wall |
| Bottom Hole #6 South Side Wall |

Sample Cross Reference 594127



Tetra Tech- Midland, Midland, TX

Jefe BSJ FED.Com 1H

| Matrix | Date Collected | Sample Depth | Lab Sample Id |
|--------|----------------|--------------|---------------|
| S | 07-30-18 00:00 | | 594127-001 |
| S | 07-30-18 00:00 | | 594127-002 |
| S | 07-30-18 00:00 | | 594127-003 |
| S | 07-27-18 00:00 | | 594127-004 |
| S | 07-27-18 00:00 | | 594127-005 |
| S | 07-27-18 00:00 | | 594127-006 |

Version: 1.%

.



CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Jefe BSJ FED.Com 1H

 Project ID:
 212-C-MD-01166

 Work Order Number(s):
 594127

BORATORIES

 Report Date:
 02-AUG-18

 Date Received:
 07/31/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3058496 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Project Id:212-C-MD-01166Contact:Clair GonzalesProject Location:Lea County, New Mexico

Certificate of Analysis Summary 594127

Tetra Tech- Midland, Midland, TX Project Name: Jefe BSJ FED.Com 1H



Date Received in Lab:Tue Jul-31-18 02:57 pmReport Date:02-AUG-18Project Manager:Jessica Kramer

| | Lab Id: | 594127- | 001 | 594127-0 | 002 | 594127-0 | 003 | 594127- | 004 | 594127-0 | 005 | 594127-0 | 006 |
|-----------------------------------|------------|------------------|-------------|------------------|-------------|------------------|---------------|------------------|--------------|------------------|-------------|------------------|-------------|
| Analysis Doguested | Field Id: | Bottom Hole #1 V | Vest Side W | Bottom Hole #3 N | orth Side W | Bottom Hole #3 (| 0-6") 4'-5' B | Bottom Hole #5 N | lorth Side W | Bottom Hole #6 N | orth Side W | Bottom Hole #6 S | outh Side V |
| Analysis Kequesiea | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | , | SOIL | , | SOIL | | SOIL | | SOIL | |
| | Sampled: | Jul-30-18 | 00:00 | Jul-30-18 (| 00:00 | Jul-30-18 (| 00:00 | Jul-27-18 | 00:00 | Jul-27-18 (| 00:00 | Jul-27-18 (| 00:00 |
| BTEX by EPA 8021B | Extracted: | Aug-01-18 | 08:00 | Aug-01-18 | 08:00 | Aug-01-18 | 08:00 | Aug-01-18 | 08:00 | Aug-01-18 | 08:00 | Aug-01-18 | 08:00 |
| | Analyzed: | Aug-01-18 | 11:35 | Aug-01-18 | 11:56 | Aug-01-18 | 12:17 | Aug-01-18 | 12:37 | Aug-01-18 | 14:00 | Aug-01-18 | 13:19 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 |
| Toluene | | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 |
| Ethylbenzene | | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 |
| m,p-Xylenes | | < 0.00402 | 0.00402 | < 0.00399 | 0.00399 | < 0.00397 | 0.00397 | < 0.00403 | 0.00403 | < 0.00399 | 0.00399 | < 0.00398 | 0.00398 |
| o-Xylene | | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 |
| Total Xylenes | | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 |
| Total BTEX | | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Jul-31-18 16:30 | | Jul-31-18 | 6:30 | Jul-31-18 | 6:30 | Jul-31-18 | 16:30 | Jul-31-18 | 6:30 | Jul-31-18 | 16:30 |
| | Analyzed: | Aug-01-18 | 00:10 | Aug-01-18 | 00:30 | Aug-01-18 | 00:37 | Aug-01-18 | 00:44 | Aug-01-18 | 00:50 | Aug-01-18 | 01:10 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 7.28 | 5.01 | 118 | 4.99 | 324 | 4.95 | <4.97 | 4.97 | 5.69 | 4.95 | <4.95 | 4.95 |
| TPH By SW8015 Mod | Extracted: | Jul-31-18 | 15:00 | Jul-31-18 | 5:00 | Jul-31-18 | 5:00 | Jul-31-18 | 15:00 | Jul-31-18 | 5:00 | Jul-31-18 | 15:00 |
| | Analyzed: | Jul-31-18 | 16:40 | Jul-31-18 | 7:38 | Jul-31-18 | 7:57 | Jul-31-18 | 18:17 | Jul-31-18 | 8:36 | Jul-31-18 | 18:56 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | 16.9 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Diesel Range Organics (DRO) | | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Oil Range Hydrocarbons (ORO) | | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Total TPH | | 16.9 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

fession knomen

Jessica Kramer Project Assistant

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Flagging Criteria



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- 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 | Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labo | oratory 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



| Work Or Lab Batch | r ders : 594127 #: 3058482 | 7, Sample: 594127-001 / SMP | Batc | Project ID h: 1 Matrix | 212-C-MD- Soil | 01166 | |
|----------------------|--------------------------------------|--------------------------------------|------------------------|---------------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 07/31/18 16:40 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1-Chlorooct | tane | | 93.7 | 99.7 | 94 | 70-135 | |
| o-Terphenyl | l | | 45.5 | 49.9 | 91 | 70-135 | |
| Lab Batch | #: 3058482 | Sample: 594127-002 / SMP | Bate | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 07/31/18 17:38 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | 3y SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | tane | | 97.4 | 99.8 | 98 | 70-135 | |
| o-Terphenyl | 1 | | 49.5 | 49.9 | 99 | 70-135 | |
| Lab Batch | #: 3058482 | Sample: 594127-003 / SMP | Batc | h: 1 Matrix: | : Soil | | |
| Units: | mg/kg | Date Analyzed: 07/31/18 17:57 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | 3y SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1-Chlorooct | tane | | 93.8 | 99.8 | 94 | 70-135 | |
| o-Terphenyl | l | | 48.0 | 49.9 | 96 | 70-135 | |
| Lab Batch | #: 3058482 | Sample: 594127-004 / SMP | Batc | h: 1 Matrix | : Soil | | |
| Units: | mg/kg | Date Analyzed: 07/31/18 18:17 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | 3y SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1 Chloroost | 000 | Allalytes | 00.7 | 00.8 | 100 | 70.125 | |
| o-Terphenyl | | | 51.8 | 99.8 | 100 | 70-135 | |
| Lab Batch | #• 3058482 | Sample: 594127-005 / SMP | Bate | 49.9 h• 1 Matriv | Soil | /0-133 | |
| Units: | mg/kg | Date Analyzed: 07/31/18 18:36 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | tane | | 91.9 | 100 | 92 | 70-135 | |
| - T 1 1 | | | | 1 | 1 | | |

* 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



| Work Orders : 594127, Lab Batch #: 3058482 Sample: 594127-006 / SM | IP Batc | Project ID h: 1 Matrix | : 212-C-MD- : Soil | 01166 | | | | | | | | |
|--|--------------------------|---------------------------|-----------------------|-------------------------|-------|--|--|--|--|--|--|--|
| Units: mg/kg Date Analyzed: 07/31/18 18:56 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| TPH By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | | | | |
| Analytes | | | [D] | | | | | | | | | |
| 1-Chlorooctane | 90.2 | 99.7 | 90 | 70-135 | | | | | | | | |
| o-Terphenyl | 46.8 49.9 94 70-135 | | | | | | | | | | | |
| Lab Batch #: 3058496 Sample: 594127-001 / SN | IP Bate | h: 1 Matrix | : Soil | | | | | | | | | |
| Units: mg/kg Date Analyzed: 08/01/18 11:35 | SURROGATE RECOVERY STUDY | | | | | | | | | | | |
| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| 1,4-Difluorobenzene | 0.0321 | 0.0300 | 107 | 70-130 | | | | | | | | |
| 4-Bromofluorobenzene | 0.0268 | 0.0300 | 89 | 70-130 | | | | | | | | |
| Lab Batch #: 3058496 Sample: 594127-002 / SN | IP Bate | h: 1 Matrix | : Soil | | | | | | | | | |
| Units: mg/kg Date Analyzed: 08/01/18 11:56 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| 14 Difluorohanzana | 0.0220 | 0.0200 | 107 | 70.120 | | | | | | | | |
| 4 Bromofluorobenzene | 0.0320 | 0.0300 | 107 | 70-130 | | | | | | | | |
| Leb Batch #: 3058496 Sample: 594127-003 / Sh | 0.0200 | 0.0300 | | 70-130 | | | | | | | | |
| Lab Batch #. 5050470 Sample. 574127-0057 Siv | | | | GETIDI | | | | | | | | |
| Units: hig/kg Date Analyzed: 08/01/18 12.17 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| 1,4-Difluorobenzene | 0.0308 | 0.0300 | 103 | 70-130 | | | | | | | | |
| 4-Bromofluorobenzene | 0.0255 | 0.0300 | 85 | 70-130 | | | | | | | | |
| Lab Batch #: 3058496 Sample: 594127-004 / SN | IP Batc | h: 1 Matrix | : Soil | | | | | | | | | |
| Units: mg/kg Date Analyzed: 08/01/18 12:37 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| •/ | | 1 | 1 | 1 | | | | | | | | |
| 1,4-Difluorobenzene | 0.0317 | 0.0300 | 106 | 70-130 | | | | | | | | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



| Units: mg/kg Date Analyzed: 08/01/18 13:19 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Anount (A) True (A) Recovery (B) Control 15/8 Flags 1.4-Difluorobenzene 0.0324 0.0300 108 70-130 - 4-Bronofluorobenzene 0.0324 0.0300 87 70-130 - 1.ab Batch #: 3058496 Sample: 594127-005 / SMP Batch: 1 Matrix: Soil - Lab Batch #: 3058496 Sample: 594127-005 / SMP Batch: 1 Matrix: Soil - Lab Batch #: 3058496 Sample: 594127-005 / SMP Batch: 1 Matrix: Soil - 1.4-Difluorobenzene 0.0340 0.0300 113 70-130 - - 1.4-Bindorobenzene 0.03300 0.0300 113 70-130 - - 1.4-Bindorobenzene 0.0340 0.0300 110 70-130 - - 1.4-Bindorobenzene 0.0340 0.0300 1100 70-135 - - | Work O Lab Batch | rders : 59412' #: 3058496 | 7, Sample: 594127-006 / SMP | Batc | Project ID: h: 1 Matrix: | 212-C-MD- Soil | 01166 | | | | | | | | |
|--|---------------------|------------------------------|---|-------------------------|-----------------------------|-----------------------|-------------------------|-------|--|--|--|--|--|--|--|
| BTEX by EPA 8021B Anount [A] True [A] True [B] Reovery [9:R] Control Linking (9:R) Flags (9:R) 1.4-Diffluorobenzene 0.0324 0.0300 108 70-130 - 4-Bromoffluorobenzene 0.0324 0.0300 87 70-130 - Lab Batch #: 3058496 Sample: 594127-005 / SMP Batch: 1 Matrix: Soil - Units: mg/kg Date Analyzed: 08/01/18 14:00 SURROGATE RECOVERY STUDY - BTEX by EPA 8021B Amount ([A] Amount [B] Recovery 9/kg Cantrol 12/mile 9/kg Flags 9/kg 1.4-Diffluorobenzene 0.0340 0.0300 110 70-130 - 1.4-Diffluorobenzene 0.0340 0.0300 110 70-130 - 1.4-Diffluorobenzene 0.0304 0.0300 110 70-130 - 1.4-Diffluorobenzene 0.0304 0.0300 110 70-130 - 1.4-Diffluorobenzene 0.0304 0.0300 100 70-135 - 1.4-Diffluorobenzene 0.0304 | Units: | mg/kg | Date Analyzed: 08/01/18 13:19 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| Analytes 101 1.4-Difluorobenzene 0.0324 0.0300 108 70-130 Lab Batch #: 3058496 Sample: 594127-005 / SMP Batch: 1 Matrix: Soil 70-130 Lab Batch #: 3058496 Sample: 594127-005 / SMP Batch: 1 Matrix: Soil 70-130 Units: mg/kg Date Analyzed: 08/01/18 14:00 SURROGATE RECOVERY STUDY Flags Minomit Analytes 1 Annonit Recovery %R Control Limits %R 1.4-Difluorobenzene 0.0340 0.0300 113 70-130 14-130 1.4-Difluorobenzene 0.0340 0.0300 100 70-130 14-130 Lab Batch #: 3058482 Sample: 7659520-1-BLK / BLK Batch: 1 Matrix: Solid 14-130 Units: mg/kg Date Analyzed: 07/31/18 11:20 SURROGATE RECOVERY STUDY 14-130 1-Chlorooctame 91.5 100 92 70-135 1-Chlorooctame 91.5 100 92 70-135 1-Lab Batch #: 3058496 Sample: 7659535-1-BLK / BLK Batch: 1 <td< th=""><th></th><th>BTEX</th><th>K by EPA 8021B</th><th>Amount Found [A]</th><th>True Amount [B]</th><th>Recovery %R</th><th>Control Limits %R</th><th>Flags</th></td<> | | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | | | | |
| 1.4-Difluorobenzene 0.0324 0.0300 108 70-130 4-Bromofiluorobenzene 0.0262 0.0300 87 70-130 Lab Batch #: 3058496 Sample: 594127-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg Date Analyzed: 08/01/18 14:00 SURROGATE RECOVERY STUDY Recovery %R Gontrol Limits %R Flags 1.4-Difluorobenzene 0.0340 0.0300 113 70-130 - 1.4-Difluorobenzene 0.0340 0.0300 113 70-130 - 1.4-Both #: 3058482 Sample: 7659520-1-BLK / BLK Batch: 1 Matrix: Soild - - Units: mg/kg Date Analyzed: 07/31/18 11:20 SURROGATE RECOVERY STUDY - - I-Chlorooctane 91.5 100 92 70-135 - - 1-Chlorooctane 91.5 100 92 70-135 - - 1-Lab Batch #: 3058492 Sample: 7659535-1-BLK / BLK Batch: 1 Matrix: Soild - - 1-Chlorooctane 108/9 Sample: 7659535-1-BLK / BLK | | | Analytes | | | נען | | | | | | | | | |
| 4-BromoRuburobenzene 0.0262 0.0300 87 70-130 Lab Batch #: 3058496 Sample: 594127-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg Date Analyzed: 08/01/18 14:00 SURROGATE RECOVERY STUDY Control [A] Flags BTEX by EPA 8021B Amount Found [A] True Mount [B] Recovery %R Control 100 Flags 1.4-Difluorobenzene 0.0340 0.0300 113 70-130 | 1,4-Difluor | obenzene | | 0.0324 | 0.0300 | 108 | 70-130 | | | | | | | | |
| Lab Batch #: 3058496 Sample: 594127-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg Date Analyzed: 08/01/18 14:00 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Amount [A] Amount [B] True [B] Recovery 5% R [D] Control 5% R [D] Flags 1.4-Diffuorobenzene 0.0340 0.0300 100 70-130 - 4-Bromoffuorobenzene 0.0300 0.0300 100 70-130 - Lab Batch #: 3058482 Sample: 7659520-1-BLK / BLK Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/8 11:20 SURROGATE Recovery 5% R [D] Control 2% R [D] Flags 1-Chlorooctane 91.5 100 92 70-135 - Lab Batch #: 3058496 Sample: 7659535-1-BLK / BLK Batch: 1 Matrix: Soid 1-Chlorooctane 91.5 100 92 70-135 - - Lab Batch #: | 4-Bromoflu | orobenzene | | 0.0262 0.0300 87 70-130 | | | | | | | | | | | |
| Units: mg/kg Date Analyzed: 08/01/18 14:00 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Amount Found [A] True Amount [B] Recovery %R [D] Control Limits Flags 1.4-Diffuorobenzene 0.0340 0.0300 113 70-130 - 4-Bromofluorobenzene 0.0300 0.0300 100 70-130 - 4-Bromofluorobenzene 0.0300 0.0300 100 70-130 - Lab Batch #: 3058482 Sample: 7659520-1-BLK / BLK Batch: 1 <matrix: solid<="" td=""> - Units: mg/kg Date Analyzed: 07/31/18 11:20 SURROGATE RECOVERY STUDY - TPH By SW8015 Mod (Analytes Amount [A] True Amount [B] Recovery %R Control Limits %R Flags 1-Chlorooctane 91.5 100 92 70-135 - Lab Batch #: 3058496 Sample: 7659535-1-BLK / BLK Batch: 1<matrix: solid<="" td=""> - Units: mg/kg Date Analyzed: 08/01/18 10:34 SURROGATE RECOVERY STUDY - Lab Batch #: 3058496</matrix:></matrix:> | Lab Batch | #: 3058496 | Sample: 594127-005 / SMP | Batc | h: 1 Matrix: | Soil | | | | | | | | | |
| BTEX by EPA 8021B Amount [A] True Anonunt [A] True Amount [B] Recovery %AR [D] Control %AR %B 1.4-Diffuorobenzene 0.0340 0.0300 113 70-130 4-Bromoffuorobenzene 0.0340 0.0300 113 70-130 4-Bromoffuorobenzene 0.0340 0.0300 100 70-130 Lab Batch #: 3058482 Sample: 7659520-1-BLK/ BLK Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/18 11:20 SURROGATE RECOVERY STUDY Flags TPH By SW8015 Mod Analytes Amount [A] True Amount [B] Recovery %AR Control Limits %AR Flags 1-Chlorooctane 91.5 100 92 70-135 Introl Limits %AR Flags 0-Terphenyl 48.3 50.0 97 70-135 Introl Limits %AR Flags 1-Chlorooctane 91.5 100 92 70-135 Introl Limits %AR Flags Match #: 3058496 Sample: 7659535-1-BLK / BLK Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 08/01/18 10:34 SURROGATE RECOVERY STUDY 1-4-Diffuorobenzene 0.0324 0.0300 108 70-130 1.4-Diffuorobenzene 0.0247 <t< td=""><td>Units:</td><td>mg/kg</td><td>Date Analyzed: 08/01/18 14:00</td><td>SU</td><td>RROGATE R</td><td>ECOVERY</td><td>STUDY</td><td></td></t<> | Units: | mg/kg | Date Analyzed: 08/01/18 14:00 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| I.4-Diffuorebenzene 0.0340 0.0300 113 70-130 4-Bromofluorobenzene 0.0300 0.0300 100 70-130 4-Bromofluorobenzene 0.0300 0.0300 100 70-130 Lab Batch #: 3058482 Sample: 7659520-1-BLK / BLK Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/18 11:20 SURROGATE RECOVERY STUDY Flags I-Chlorooctane 91.5 100 92 70-135 I-Chlorooctane 91.5 100 92 70-135 Lab Batch #: 3058496 Sample: 7659535-1-BLK / BLK Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 08/01/18 10:34 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Amount Found True Amount IBI Recovery %/ %/ %/ %/ %/ %/ %/ %/ %/ %/ %/ %/ %/ | | BTEX | A polytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| | 1.4-Difluor | ohenzene | Analytes | 0.0340 | 0.0300 | 112 | 70.120 | | | | | | | | |
| Performation Output O | 4 Bromoflu | lorobenzene | | 0.0340 | 0.0300 | 115 | 70-130 | | | | | | | | |
| Lab Batch #, 505002 Sample, 705750745124 BLK Datk if | Lob Botch | . #• 3058482 | Sample: 7659520-1-BLK / I | O.0300 | 0.0300 | Solid | /0-130 | | | | | | | | |
| TPH By SW8015 Mod Amount Found [A] True Amount [B] Recovery %R Control Limits (D) Flags 1-Chlorooctane 91.5 100 92 70-135 0-Terphenyl 48.3 50.0 97 70-135 Lab Batch #: 3058496 Sample: 7659535-1-BLK / BLK Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 08/01/18 10:34 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Amount [A] True Amount [A] Recovery %R Control Limits %R Flags 1.4-Diffuorobenzene 0.0324 0.0300 108 70-130 4-Bromofluorobenzene 0.0247 0.0300 82 70-130 Lab Batch #: 3058482 Sample: 7659520-1-BKS / BKS Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/18 11:39 SURROGATE RECOVERY STUDY TPH By SW8015 Mod Amount [A] True Amount [A] Recovery %R Control Limits %R TPH By SW8015 Mod Amount [A] True [B] Recovery %R Control Limits %R I-Chlorooctane 129 100 129 70-135 I-Chlorooctane 129 100 129 70-135 | Lab Daten | mg/kg | Data Analyzad: 07/21/18 11:20 | | | | | | | | | | | | |
| TPH By SW8015 ModAmount Found [A]True Amount [B]Recovery % R [D]Control Limits % R [D]Flags1-Chlorooctane91.51009270-135-o-Terphenyl48.350.09770-135-Lab Batch #: 3058496Sample: 7659535-1-BLK/BLKBatch:1Matrix: Solid-Units:mg/kgDate Analyzed: 08/01/18 10:34SURROGATERECOVERY STUDY-BTEX by EPA 8021BAmount [A]True [B]Recovery % R [D]Control % R % RFlags1.4-Difluorobenzene0.03240.030010870-130-4-Bronofluorobenzene0.02470.03008270-130-Lab Batch #: 3058482Sample: 7659520-1-BKS / BKSBatch:1Matrix: Solid-Units:mg/kgDate Analyzed: 07/31/18 11:39SURROGATERECOVERY STUDY-TPH By SW8015 ModAmount [A]True Amount [B]Recovery % R (D]Control Limits % R (D]Flags1-Chlorooctane12910012970-135-1-Chlorooctane12910012970-135- | | mg/kg | Date Analyzeu: 07/51/18 11.20 | SU | SUKRUGATE RECUVERY STUD | | | | | | | | | | |
| I-Chlorooctane 91.5 100 92 70-135 o-Terphenyl 48.3 50.0 97 70-135 Lab Batch #: 3058496 Sample: 7659535-1-BLK / BLK Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 08/01/18 10:34 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Analytes Amount Found [A] [B] Recovery %R Flags 1.4-Difluorobenzene 0.0324 0.0300 108 70-130 4 4-Bromofluorobenzene 0.0247 0.0300 82 70-130 4 Lab Batch #: 3058482 Sample: 7659520-1-BKS / BKS Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/18 1:39 SURROGATE RECOVERY STUDY TPH By SW8015 Mod Amount Found Recovery %R %R Flags I-Chlorooctane 129 10 | | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| 1-Chilotoctaile 91.5 100 92 70-135 o-Terphenyl 48.3 50.0 97 70-135 Lab Batch #: 3058496 Sample: 7659535-1-BLK / BLK Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 08/01/18 10:34 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Amount Found [A] True Amount [B] Recovery %R Control Limits %R Flags 1.4-Difluorobenzene 0.0324 0.0300 108 70-130 4-Bromofluorobenzene 0.0247 0.0300 82 70-130 Lab Batch #: 3058482 Sample: 7659520-1-BKS / BKS Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/18 11:39 SURROGATE RECOVERY STUDY TPH By SW8015 Mod Amount Found [A] True Amount Found [A] Recovery %R [D] Control Limits %R Flags %R 1-Chlorooctane 129 100 129 70-135 0-Terphenyl 56.1 50.0 112 70-135 | 1 Chloroco | tono | Analytes | 01.5 | 100 | 02 | 70.125 | | | | | | | | |
| Lab Batch #: 30.0 97 70-133 Inits: mg/kg Date Analyzed: 08/01/18 10:34 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Amount Found [A] True Amount [B] True Mecovery %R Control Limits Flags 1.4-Difluorobenzene 0.0324 0.0300 108 70-130 End 4-Bromofluorobenzene 0.0324 0.0300 82 70-130 End Lab Batch #: 3058482 Sample: 7659520-1-BKS / BKS Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/18 11:39 SURROGATE Recovery RECOVERY Control Limits %R Flags %R <th< td=""><td>1-Cillolooc</td><td>1</td><td></td><td>91.5</td><td>100</td><td>92</td><td>70-135</td><td></td></th<> | 1-Cillolooc | 1 | | 91.5 | 100 | 92 | 70-135 | | | | | | | | |
| Lab Batch #: 5036490 Sample: 703933-1-BLK / BLK Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 08/01/18 10:34 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Amount Found [A] True [B] Recovery %R [D] Control Limits %R Flags 1.4-Difluorobenzene 0.0324 0.0300 108 70-130 | Lob Botoh | <i>#. 2059406</i> | $\mathbf{S}_{\mathbf{a},\mathbf{m},\mathbf{n}} = \frac{7650525}{10} \mathbf{I} \mathbf{D} \mathbf{I} \mathbf{V} / \mathbf{I}$ | 40.5 | 50.0 | Solid Solid | /0-155 | | | | | | | | |
| Units: mg/kg Date Analyzed: 08/01/18 10:34 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Amount [A] True Amount [A] Recovery %R [D] Control Limits %R Flags Analytes 0.0324 0.0300 108 70-130 - 4-Bromofluorobenzene 0.0247 0.0300 82 70-130 - Lab Batch #: 3058482 Sample: 7659520-1-BKS / BKS Batch: 1 Matrix: Solid - Units: mg/kg Date Analyzed: 07/31/18 11:39 SURROGATE RECOVERY STUDY - - TPH By SW8015 Mod Amount [A] Flags %R [D] Control Limits Flags 1-Chlorooctane 129 100 129 70-135 - 0-Terphenyl 56 1 50.0 112 70-135 | | 1#: 3038490 | Sample: 7039333-1-BLK/1 | DLK Date | | Solid | | | | | | | | | |
| BTEX by EPA 8021BAmount Found [A]True Amount [B]Control Limits %R [D]Flags1,4-Difluorobenzene0.03240.030010870-1304-Bromofluorobenzene0.02470.03008270-1304-Bromofluorobenzene0.02470.03008270-130Lab Batch #: 3058482Sample: 7659520-1-BKS / BKSBatch:1Matrix: SolidUnits:mg/kgDate Analyzed: 07/31/18 11:39SURROGATE RECOVERY STUDYTPH By SW8015 ModAmount [A]True Found [A]Recovery %R [D]Control Limits1-Chlorooctane12910012970-135o-Terphenyl56.150.011270-135 | Units: | mg/kg | Date Analyzed: 08/01/18 10:34 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| 1.4-Difluorobenzene 0.0324 0.0300 108 70-130 4-Bromofluorobenzene 0.0247 0.0300 82 70-130 Lab Batch #: 3058482 Sample: 7659520-1-BKS / BKS Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/18 11:39 SURROGATE RECOVERY STUDY TPH By SW8015 Mod Amount Found [A] True Amount [B] Recovery %R [D] Control Limits %R Flags 1-Chlorooctane 129 100 129 70-135 o-Terphenyl 56.1 50.0 112 70-135 | | BTEX | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| 4-Bromofluorobenzene 0.0247 0.0300 82 70-130 Lab Batch #: 3058482 Sample: 7659520-1-BKS / BKS Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/18 11:39 SURROGATE RECOVERY STUDY TPH By SW8015 Mod Amount [A] True Amount [A] Recovery %R [D] Control Limits %R Flags 1-Chlorooctane 129 100 129 70-135 o-Terphenyl 56.1 50.0 112 70-135 | 1,4-Difluor | obenzene | | 0.0324 | 0.0300 | 108 | 70-130 | | | | | | | | |
| Lab Batch #: 3058482 Sample: 7659520-1-BKS / BKS Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/31/18 11:39 SURROGATE RECOVERY STUDY TPH By SW8015 Mod Amount [A] True [B] Recovery %R [D] Control Limits %R Flags 1-Chlorooctane 129 100 129 70-135 o-Terphenyl 56.1 50.0 112 70-135 | 4-Bromoflu | orobenzene | | 0.0247 | 0.0300 | 82 | 70-130 | | | | | | | | |
| Units:mg/kgDate Analyzed: 07/31/18 11:39SURROGATE RECOVERY STUDYTPH By SW8015 ModAmount Found [A]True Amount [B]Recovery %R [D]Control Limits %R %R [D]Flags1-Chlorooctane12910012970-135o-Terphenyl56.150.011270-135 | Lab Batch | #: 3058482 | Sample: 7659520-1-BKS / I | BKS Bate | h: 1 Matrix: | Solid | | | | | | | | | |
| TPH By SW8015 ModAmount Found [A]True Amount [B]Recovery %R [D]Control Limits %RFlags1-Chlorooctane12910012970-135o-Terphenyl56.150.011270-135 | Units: | mg/kg | Date Analyzed: 07/31/18 11:39 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| 1-Chlorooctane 129 100 129 70-135 o-Terphenyl 56.1 50.0 112 70-135 | | TPH I | 3y SW8015 Mod Analvtes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| o-Terphenyl 561 500 112 70-135 | 1-Chlorooc | tane | | 129 | 100 | 129 | 70-135 | | | | | | | | |
| | o-Terphenv | 1 | | 56.1 | 50.0 | 112 | 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



| Work Or Lab Batch | r ders : 594127 #: 3058496 | 7, Sample: 7659535-1-BKS / I | Project ID: 212-C-MD-01166KS / BKSBatch:1Matrix: Solid | | | | | | | | | | | |
|----------------------|--------------------------------------|---------------------------------|--|-----------------------|-----------------------|-------------------------|-------|--|--|--|--|--|--|--|
| Units: | mg/kg | Date Analyzed: 08/01/18 08:50 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | | | | |
| | | Analytes | | | [D] | | | | | | | | | |
| 1,4-Difluoro | obenzene | | 0.0351 | 0.0300 | 117 | 70-130 | | | | | | | | |
| 4-Bromoflue | orobenzene | | 0.0252 0.0300 84 70-130 | | | | | | | | | | | |
| Lab Batch | #: 3058482 | Sample: 7659520-1-BSD / I | / BSD Batch: 1 Matrix: Solid | | | | | | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/31/18 11:59 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| 1-Chlorooct | ane | | 126 | 100 | 126 | 70-135 | | | | | | | | |
| o-Terphenyl | 1 | | 56.6 | 50.0 | 113 | 70-135 | | | | | | | | |
| Lab Batch | #: 3058496 | Sample: 7659535-1-BSD / I | BSD Batch | n: 1 Matrix | : Solid | | | | | | | | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 09:10 | SURROGATE RECOVERY STUDY | | | | | | | | | | | |
| | BTEX | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| 1.4-Difluoro | obenzene | | 0.0335 | 0.0300 | 112 | 70-130 | | | | | | | | |
| 4-Bromoflue | orobenzene | | 0.0266 | 0.0300 | 89 | 70-130 | | | | | | | | |
| Lab Batch | #: 3058482 | Sample: 593962-001 S / MS | Batch | n: 1 Matrix | : Soil | | | | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/31/18 12:38 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| 1-Chlorooct | ane | | 88.7 | 99.7 | 89 | 70-135 | | | | | | | | |
| o-Terphenyl | l | | 41.9 | 49.9 | 84 | 70-135 | | | | | | | | |
| Lab Batch | #: 3058496 | Sample: 593924-001 S / MS | B Batch | n: 1 Matrix | : Soil | | | | | | | | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 09:31 | SU | RROGATE R | ECOVERY | STUDY | | | | | | | | |
| | BTEX | A by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | | | |
| 1,4-Difluoro | obenzene | | 0.0333 | 0.0300 | 111 | 70-130 | | | | | | | | |
| | | | | | 1 | | | | | | | | | |

* 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



| Work O | rders : 59412 | 7, | Project ID: 212-C-MD-01166 | | | | | | | | | |
|-------------|---------------------|-------------------------------|-----------------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|--|--|
| Lab Batcl | h #: 3058482 | Sample: 593962-001 SD / M | MSD Bate | h: 1 Matrix | : Soil | | | | | | | |
| Units: | mg/kg | Date Analyzed: 07/31/18 12:38 | SU | RROGATE R | ECOVERY | STUDY | | | | | | |
| | ТРН І | By SW8015 Mod Analvtes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1-Chlorood | ctane | | 89.6 | 99.7 | 90 | 70-135 | | | | | | |
| o-Terpheny | yl | | 46.4 | 49.9 | 93 | 70-135 | | | | | | |
| Lab Batcl | h #: 3058496 | Sample: 593924-001 SD / N | ASD Bate | h: 1 Matrix | Soil | | | | | | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 09:52 | SU | RROGATE R | ECOVERY | STUDY | | | | | | |
| | BTEX | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1,4-Difluor | robenzene | - | 0.0343 | 0.0300 | 114 | 70-130 | | | | | | |
| 4-Bromoflu | uorobenzene | | 0.0282 | 0.0300 | 94 | 70-130 | | | | | | |

* Surrogate outside of Laboratory QC limits

Released to Imaging: 9/13/2022 2:14:46 PM

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

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BS / BSD Recoveries

Project Name: Jefe BSJ FED.Com 1H



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

Version: 1.%



BS / BSD Recoveries

Project Name: Jefe BSJ FED.Com 1H



| Work Order | #: 594127 | | | | | | | Pro | ject ID: 2 | 212-C-MD- | 01166 | | | |
|---------------|---------------------------|-------------------------------|---|--------------------------|----------------------|----------------|-----------------------------|------------------------|------------|-------------------------|---------------------------|------|--|--|
| Analyst: | ARM | D | ate Prepai | red: 07/31/201 | 8 | | | Date A | nalyzed: (| 07/31/2018 | | | | |
| Lab Batch ID: | Sample: 7659520-1- | BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | | | |
| Units: | mg/kg | | BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | |
| | 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 | tes | | [B] | [C] | [D] | [E] | Result [F] | [G] | | | | | | |
| Gasoline R | ange Hydrocarbons (GRO) | <15.0 | 1000 | 1050 | 105 | 1000 | 1060 | 106 | 1 | 70-135 | 20 | | | |
| Diesel Ran | ge Organics (DRO) | <15.0 | 1000 | 1100 | 110 | 1000 | 1130 | 113 | 3 | 70-135 | 20 | | | |

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

Version: 1.%



Form 3 - MS / MSD Recoveries

Project Name: Jefe BSJ FED.Com 1H



| | 50.4105 | | | | | | | | | | | |
|-------------------------|------------------------------|----------------------------|----------------|--------------------------------|------------------------|----------------|--|----------------------|----------|-------------------------|---------------------------|------|
| Work Order # : | 594127 | | | | | | Project I | D: 212-C | -MD-011 | 66 | | |
| Lab Batch ID: | 3058496 | QC- Sample ID: | 593924 | -001 S | Ba | atch #: | 1 Matri | x: Soil | | | | |
| Date Analyzed: | 08/01/2018 | Date Prepared: | 08/01/2 | 2018 | Ar | nalyst: 4 | ALJ | | | | | |
| Reporting Units: | mg/kg | | I | MATRIX SPIK | E / MAT | FRIX SP | IKE 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] | | [D] | [E] | | [G] | | | | |
| Benzene | | <0.00201 | 0.100 | 0.0710 | 71 | 0.0998 | 0.0665 | 67 | 7 | 70-130 | 35 | X |
| Toluene | | < 0.00201 | 0.100 | 0.0726 | 73 | 0.0998 | 0.0635 | 64 | 13 | 70-130 | 35 | X |
| Ethylbenzene | | < 0.00201 | 0.100 | 0.0788 | 79 | 0.0998 | 0.0641 | 64 | 21 | 70-130 | 35 | X |
| m,p-Xylenes | | < 0.00402 | 0.201 | 0.154 | 77 | 0.200 | 0.122 | 61 | 23 | 70-130 | 35 | X |
| o-Xylene | | <0.00201 | 0.100 | 0.0777 | 78 | 0.0998 | 0.0622 | 62 | 22 | 70-130 | 35 | X |
| Lab Batch ID: | 3058518 | QC- Sample ID: | 594074 | -002 S | Ba | atch #: | 1 Matri | x: Soil | | | | |
| Date Analyzed: | 08/01/2018 | Date Prepared: | 07/31/2 | 2018 | Ar | nalyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | I | MATRIX SPIK | E / MAT | FRIX SP | IKE DUPLICA | TE REC | OVERY | STUDY | | |
| Inorga | nnic Anions by EPA 300/300.1 | Parent Sample Posult | Spike | Spiked Sample Result | Spiked Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| | Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Kesuit [F] | %K [G] | %0 | %K | %RPD | |
| Chloride | | <7.32 | 366 | 381 | 104 | 366 | 380 | 104 | 0 | 90-110 | 20 | |
| Lab Batch ID: | 3058518 | QC- Sample ID: | 594127 | -001 S | Ba | atch #: | 1 Matri | x: Soil | | | | |
| Date Analyzed: | 08/01/2018 | Date Prepared: | 07/31/2 | 2018 | Ar | nalyst: S | SCM | | | | | |
| Reporting Units: | mg/kg | | I | MATRIX SPIK | E / MAT | FRIX SP | IKE DUPLICA | TE REC | OVERY | STUDY | | |
| Inorga | nnic 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] | | [D] | [E] | | [G] | | | | |
| Chloride | | 7.28 | 251 | 269 | 104 | 251 | 272 | 105 | 1 | 90-110 | 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.

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Form 3 - MS / MSD Recoveries



.

Project Name: Jefe BSJ FED.Com 1H

| Work Order # : | 594127 | | | | | | Project I | D: 212-C- | MD-0116 | 6 | | |
|-------------------------|--------------------|----------------------------|----------------|-------------------------|------------------------|----------------|--|-----------------------|---------|-------------------------|----------------------------|------|
| Lab Batch ID: | 3058482 Q | C- Sample ID: | 593962 | -001 S | Ba | tch #: | 1 Matri | x: Soil | | | | |
| Date Analyzed: | 07/31/2018 | Date Prepared: | 07/31/2 | 018 | An | alyst: A | ARM | | | | | |
| Reporting Units: | mg/kg | | N | 1ATRIX SPIK | E / MAT | RIX SPI | IKE DUPLICA | TE REC | OVERY | STUDY | | |
| ſ | TPH By SW8015 Mod | Parent Sample Result | Spike Added | Spiked Sample Result | Spiked Sample %B | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. % R | RPD | Control Limits %B | Control Limits % RPD | Flag |
| | Analytes | [A] | [B] | [0] | [D] | [E] | Result [1] | [G] | 70 | /01 | | |
| Gasoline Range | Hydrocarbons (GRO) | <15.0 | 997 | 859 | 86 | 997 | 858 | 86 | 0 | 70-135 | 20 | |
| Diesel Range Or | ganics (DRO) | <15.0 | 997 | 884 | 89 | 997 | 938 | 94 | 6 | 70-135 | 20 | |

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

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

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| | hed by: Date: Time: | | hed by: 1/20/1/18 14:58 | hed by: Date: Time: | | Bottom Hole #6 South Slave WAL | Battom Hole # & NORTH SIDE WALL | Bothon this #5 NORTH SIDE WALL | Bottom the # 3 (0-4") 4-5' BEB | Bottom Hole # 3 NORTH SIDE WALL | Bottom the #1 west side wall | # SAMPLE IDENTIFICATION | | - | Laboratory: メをNCO | EOG - Jamon Hohensee | COUNTY , NEW MEXICO | JEFE BSJ FED. COM IN | 間 EOG | Tetra Tech, Inc. | is Request of Chain of Custody Record |
|---|--------------------------------------|--------------------|-------------------------|---------------------|--|--------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|---|---|--|--|--|-----------------------------|------------------------|----------------------|---------------------------------|---|---------------------------------------|
| ORIGINAL COPY | Received by: Date: Time: | Date: IIme: . | 11119000 7/31/18 JUST | | | 72718 × × × 1 2 | 5 1 X X 31/75/T | M 1 X X 31/22/L | N 1 X X 31/02/14 | 7/30/18 X X X 1 N | | DATE TIME TIME WATER SOIL HCL HNO ₃ ICE None # CONTAINI | SAMPLING MATRIX PRESERVATIVE ERS | | Sampler Signature: HALSTON HUNT | • | Project #: 2126- 21106 | | Site Manager: CLAIR GONZALES | 4000 N. Big Spring Street, Ste 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 | |
| (Circle) HAND DELIVERED FEDEX UPS Tracking #: | Special Report Limits or TRRP Report | Sample Temperature | LAB USE ONLY STANDARD | | | X X X | | X X X X X | X X X X | | × × · · · · · · · · · · · · · · · · · · | BTEX 8021B TPH TX1005 TPH 8015M PAH 8270C Total Metals / TCLP Metals TCLP Volatile TCLP Semi V RCI GC/MS Vol. 8 GC/MS Vol. 8 GC/MS Semi. PCB's 8082 / NORM PLM (Asbesto Chloride S General Wate Anion/Cation | Ag As E (Ext to (GRO Ag As E Ag As E s olatiles 3260B / Vol. 8 608 0 55) ulfate er Cher Baland | EX 8260E C35) - DRO - C Ba Cd Cr Ba Cd Cr 624 270C/625 TDS mistry (s Ce | 3 DRO - N Pb Se F Pb Se 5 5 | /IRO) Hg Hg ched I | ist) | | ANALYSIS REQUEST | | DUTIT Page 1 o |

Received by OCD: 10/14/2021 3:18:08 PM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland Date/ Time Received: 07/31/2018 02:57:00 PM Work Order #: 594127

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

| Sample Receipt Checklis | t | Comments |
|---|-----|----------|
| #1 *Temperature of cooler(s)? | 1.3 | |
| #2 *Shipping container in good condition? | Yes | |
| #3 *Samples received on ice? | Yes | |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A | |
| #5 Custody Seals intact on sample bottles? | N/A | |
| #6*Custody Seals Signed and dated? | N/A | |
| #7 *Chain of Custody present? | Yes | |
| #8 Any missing/extra samples? | No | |
| #9 Chain of Custody signed when relinquished/ received? | Yes | |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes | |
| #11 Container label(s) legible and intact? | Yes | |
| #12 Samples in proper container/ bottle? | Yes | |
| #13 Samples properly preserved? | Yes | |
| #14 Sample container(s) intact? | Yes | |
| #15 Sufficient sample amount for indicated test(s)? | Yes | |
| #16 All samples received within hold time? | Yes | |
| #17 Subcontract of sample(s)? | N/A | |
| #18 Water VOC samples have zero headspace? | N/A | |

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel

Date: 07/31/2018

Checklist reviewed by: fession Warmer

Jessica Kramer

Date: 08/01/2018

Analytical Report 594239

for Tetra Tech- Midland

Project Manager: Clair Gonzales

Jefe BSJ Federa Com 1H

03-AUG-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) Received by OCD: 10/14/2021 3:18:08 PM



03-AUG-18

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

Reference: XENCO Report No(s): **594239** Jefe BSJ Federa Com 1H 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) 594239. 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. 594239 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,

fession knomer

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

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Sample Id BH-2 (8' BEB) BH-4 (6' BEB) BH-5 (5.5' BEB)

| Sample Cross Reference 59423 |
|------------------------------|
|------------------------------|



Tetra Tech- Midland, Midland, TX

Jefe BSJ Federa Com 1H

| Matrix | Date Collected | Sample Depth | Lab Sample Id |
|--------|----------------|--------------|---------------|
| S | 07-31-18 00:00 | | 594239-001 |
| S | 07-31-18 00:00 | | 594239-002 |
| S | 07-31-18 00:00 | | 594239-003 |

Version: 1.%



CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Jefe BSJ Federa Com 1H

Project ID: Work Order Number(s): 594239

BORATORIES

Report Date: 03-AUG-18 Date Received: 08/01/2018

Sample receipt non conformances and comments: Sample 002 Re run for Chlorides. New Version generated V1.001 JKR 08/03/18

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3058496 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.




Project Id:

Contact:

Clair Gonzales Lea County, New Mexico

Project Location:

Certificate of Analysis Summary 594239

Tetra Tech- Midland, Midland, TX Project Name: Jefe BSJ Federa Com 1H



Date Received in Lab: Wed Aug-01-18 11:19 am Report Date: 03-AUG-18 Project Manager: Jessica Kramer

| | Lab Id: | 594239-0 | 001 | 594239-(| 002 | 594239-0 |)03 | | |
|-----------------------------------|------------|-------------|---------|-------------|---------|-------------|---------|--|---|
| Analysis Paguastad | Field Id: | BH-2 (8' B | EB) | BH-4 (6' B | BEB) | BH-5 (5.5' | BEB) | | |
| Analysis Kequesiea | Depth: | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | | |
| | Sampled: | Jul-31-18 (| 00:00 | Jul-31-18 (| 00:00 | Jul-31-18 (| 00:00 | | |
| BTEX by EPA 8021B | Extracted: | Aug-01-18 | 12:00 | Aug-01-18 | 12:00 | Aug-01-18 | 12:00 | | 1 |
| | Analyzed: | Aug-01-18 | 18:14 | Aug-01-18 | 18:35 | Aug-01-18 | 18:56 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Benzene | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Toluene | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Ethylbenzene | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| m,p-Xylenes | | < 0.00402 | 0.00402 | < 0.00402 | 0.00402 | < 0.00404 | 0.00404 | | |
| o-Xylene | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Total Xylenes | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Total BTEX | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Inorganic Anions by EPA 300/300.1 | Extracted: | Aug-01-18 | 15:30 | Aug-01-18 | 15:30 | Aug-01-18 | 15:30 | | |
| | Analyzed: | Aug-01-18 | 22:45 | Aug-03-18 | 06:42 | Aug-01-18 | 22:59 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Chloride | | 29.0 | 5.05 | 518 | 5.00 | 129 | 5.02 | | |
| TPH By SW8015 Mod | Extracted: | ** ** ** | ** | ** ** ** | ** | ** ** ** | ** | | |
| | Analyzed: | Aug-01-18 | 12:30 | Aug-01-18 | 13:30 | Aug-01-18 | 13:49 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | | |
| Diesel Range Organics (DRO) | | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | | |
| Total TPH | | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | | |

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

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Version: 1.%

lession Vramer

Jessica Kramer Project Assistant

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LABORATORIES

Flagging Criteria



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- 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 Clier | nt Sample | BLK | Method Blank | |
|-----------|---------------------------------------|-----------|-----------------------------|--------------------------------|
| BKS/LCS | Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labor | atory Control Sample Duplicate |
| MD/SD | Method Duplicate/Sample Duplicate | MS | Matrix Spike | MSD: Matrix Spike Duplicate |

+ NELAC certification not offered for this compound.

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



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Form 2 - Surrogate Recoveries

_

Project Name: Jefe BSJ Federa Com 1H

| WORK OR | uers: 39423 | 9, Samely 504220 001 / SMD | D - 4 - 1 | Project ID: | G - 11 | | |
|--------------|-----------------|-------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| Lab Batch | #: 3038552 | Sample: 594239-0017 SMP | Batch | | : 5011 | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 12:30 | SU | RROGATE R | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | ane | - | 98.5 | 99.8 | 99 | 70-135 | |
| o-Terpheny | 1 | | 49.1 | 49.9 | 98 | 70-135 | |
| Lab Batch | #: 3058552 | Sample: 594239-002 / SMP | Batch | n: 1 Matrix: | Soil | 11 | |
| Units: | mg/kg | Date Analyzed: 08/01/18 13:30 | SU | RROGATE R | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | ane | | 88.5 | 99.7 | 89 | 70-135 | |
| o-Terpheny | 1 | | 44.9 | 49.9 | 90 | 70-135 | |
| Lab Batch | #: 3058552 | Sample: 594239-003 / SMP | Batch | n: 1 Matrix: | Soil | 1 | |
| Units: | mg/kg | Date Analyzed: 08/01/18 13:49 | SU | RROGATE R | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | | | |
| 1-Chlorooct | ane | | 95.3 | 99.9 | 95 | 70-135 | |
| o-Terpheny | l // 2050406 | | 48.8 | 50.0 | 98 | 70-135 | |
| Lab Batch | #: 3058496 | Sample: 594239-001 / SMP | Batch | n: 1 Matrix: | Soll | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 18:14 | SU | RROGATE R | ECOVERY S | STUDY | |
| | ВТЕХ | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0316 | 0.0300 | 105 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0264 | 0.0300 | 88 | 70-130 | |
| Lab Batch | #: 3058496 | Sample: 594239-002 / SMP | Batch | n: 1 Matrix: | : Soil | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 18:35 | SU | RROGATE R | ECOVERY S | STUDY | |
| | BTEX | X by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0339 | 0.0300 | 113 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0265 | 0.0300 | 88 | 70-130 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Form 2 - Surrogate Recoveries

Project Name: Jefe BSJ Federa Com 1H

| Work Or Lab Batch | rders : 59423 | 9, Sample: 594239-003 / SMP | Batch | Project ID: | • Soil | | |
|----------------------|---------------|--------------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 08/01/18 18:56 | SU | RROGATE R | ECOVERY | STUDY | |
| | BTEX | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [U] | | |
| 1,4-Difluor | obenzene | | 0.0329 | 0.0300 | 110 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0272 | 0.0300 | 91 | 70-130 | |
| Lab Batch | #: 3058496 | Sample: 7659535-1-BLK / H | BLK Batch | n: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 10:34 | SU | RROGATE R | ECOVERY S | STUDY | |
| | BTEX | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluor | obenzene | | 0.0324 | 0.0300 | 108 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0247 | 0.0300 | 82 | 70-130 | |
| Lab Batch | #: 3058552 | Sample: 7659567-1-BLK / I | BLK Batch | n: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 11:31 | SU | RROGATE R | ECOVERY | STUDY | |
| | TPH I | 3y SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | נטן | | |
| 1-Chlorooc | tane | | 92.9 | 100 | 93 | 70-135 | |
| o-Terpheny | 1 | | 48.5 | 50.0 | 97 | 70-135 | |
| Lab Batch | #: 3058496 | Sample: 7659535-1-BKS / F | BKS Batch | n: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 08:50 | SU | RROGATE R | ECOVERY S | STUDY | |
| | ВТЕХ | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluor | obenzene | | 0.0351 | 0.0300 | 117 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0252 | 0.0300 | 84 | 70-130 | |
| Lab Batch | #: 3058552 | Sample: 7659567-1-BKS / F | BKS Batch | n: 1 Matrix | : Solid | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 11:51 | SU | RROGATE R | ECOVERY S | STUDY | |
| | TPH I | 3y SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooc | tane | | 127 | 100 | 127 | 70-135 | |
| L | | | | 1 | 1 | 1 | |

* 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



Form 2 - Surrogate Recoveries

Project Name: Jefe BSJ Federa Com 1H

| Work Or Lab Batch | rders : 59423 #: 3058496 | 9, Sample: 7659535-1-BSD / B | SD Batch | Project ID: 1 Matrix: | Solid | | |
|----------------------|-----------------------------|--------------------------------------|------------------------|--------------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 08/01/18 09:10 | SUI | RROGATE R | ECOVERY | STUDY | |
| | BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | [D] | | |
| 1,4-Difluoro | obenzene | | 0.0335 | 0.0300 | 112 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0266 | 0.0300 | 89 | 70-130 | |
| Lab Batch | #: 3058552 | Sample: 7659567-1-BSD / B | SD Batch | : 1 Matrix: | : Solid | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 12:11 | SUI | RROGATE R | ECOVERY | STUDY | |
| | TPH I | 3y SW8015 Mod Analvtes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | tane | | 127 | 100 | 127 | 70-135 | |
| o-Terpheny | 1 | | 50.3 | 50.0 | 101 | 70-135 | |
| Lab Batch | #: 3058496 | Sample: 593924-001 S / MS | Batch | : 1 Matrix: | ; Soil | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 09:31 | SUI | RROGATE R | ECOVERY | STUDY | |
| | втеу | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | | Analytes | | | | | |
| 1,4-Difluoro | obenzene | | 0.0333 | 0.0300 | 111 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0270 | 0.0300 | 90 | 70-130 | |
| Lab Batch | #: 3058552 | Sample: 594239-001 S / MS | Batch | : 1 Matrix: | : Soil | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 12:50 | SUI | RROGATE R | ECOVERY | STUDY | |
| | TPH I | 3y SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooct | tane | | 123 | 99.9 | 123 | 70-135 | |
| o-Terpheny | 1 | | 47.7 | 50.0 | 95 | 70-135 | |
| Lab Batch | #: 3058496 | Sample: 593924-001 SD / M | SD Batch | : 1 Matrix: | Soil | | |
| Units: | mg/kg | Date Analyzed: 08/01/18 09:52 | SUI | RROGATE R | ECOVERYS | STUDY | |
| | ВТЕУ | K by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluoro | obenzene | | 0.0343 | 0.0300 | 114 | 70-130 | |
| 4-Bromoflu | orobenzene | | 0.0282 | 0.0300 | 94 | 70-130 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Form 2 - Surrogate Recoveries

Project Name: Jefe BSJ Federa Com 1H

| Work O Lab Batch | orders : 59423 h #: 3058552 | 9, Sample: 594239-001 SD / 1 | MSD Batel | Project ID: h: 1 Matrix: | Soil | | |
|---------------------|--------------------------------|---------------------------------|------------------------|-----------------------------|-----------------------|-------------------------|-------|
| Units: | mg/kg | Date Analyzed: 08/01/18 13:10 | SU | RROGATE RI | ECOVERY S | STUDY | |
| | TPH I | By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorood | ctane | • | 114 | 99.8 | 114 | 70-135 | |
| o-Terphen | yl | | 49.1 | 49.9 | 98 | 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: Jefe BSJ Federa Com 1H

| Work Order #: 594239 | | | | | | | Proj | ject ID: | | | |
|---|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|------------|-------------------------|---------------------------|------|
| Analyst: ALJ | D | ate Prepar | red: 08/01/201 | 8 | | | Date A | nalyzed: (| 08/01/2018 | | |
| Lab Batch ID: 3058496 Sample: 7659535-1- | -BKS | Bate | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: mg/kg | | BLAN | K /BLANK S | SPIKE / I | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | DY | |
| BTEX by EPA 8021B | Blank Sample Result [A] | Spike Added | Blank Spike Result | Blank Spike %R | Spike Added | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | | [10] | | [1] | | Kesutt [F] | [0] | | | | |
| Benzene | <0.00202 | 0.101 | 0.0887 | 88 | 0.100 | 0.0867 | 87 | 2 | 70-130 | 35 | |
| Toluene | < 0.00202 | 0.101 | 0.0930 | 92 | 0.100 | 0.0920 | 92 | 1 | 70-130 | 35 | |
| Ethylbenzene | < 0.00202 | 0.101 | 0.108 | 107 | 0.100 | 0.106 | 106 | 2 | 70-130 | 35 | |
| m,p-Xylenes | < 0.00403 | 0.202 | 0.212 | 105 | 0.200 | 0.209 | 105 | 1 | 70-130 | 35 | |
| o-Xylene | < 0.00202 | 0.101 | 0.104 | 103 | 0.100 | 0.104 | 104 | 0 | 70-130 | 35 | |
| Analyst: SCM | D | ate Prepar | red: 08/01/201 | .8 | • | | Date A | nalyzed: (| 08/01/2018 | | |
| Lab Batch ID: 3058608 Sample: 7659579-1- | -BKS | Batc | h #: 1 | | | | | Matrix: S | Solid | | |
| Units: mg/kg | | BLAN | K /BLANK S | SPIKE / I | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | DY | |
| Inorganic Anions by EPA 300/300.1 Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Chloride | <4.99 | 250 | 258 | 103 | 250 | 254 | 102 | 2 | 90-110 | 20 | |

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

Version: 1.%



BS / BSD Recoveries



Project Name: Jefe BSJ Federa Com 1H

| Work Order | #: 594239 | | | | | | | Proj | ject ID: | | | |
|---------------|--|-------------------------------|---|--------------------------|----------------------|----------------|-----------------------------|------------------------|----------|-------------------------|---------------------------|------|
| Analyst: | ARM | D | Date Prepared: 08/01/2018 Date Analyzed: 08/01/2018 | | | | | | | | | |
| Lab Batch ID: | : 3058552 Sample: 7659567-1- | BKS | S Batch #: 1 Matrix: Solid | | | | | | | | | |
| Units: | mg/kg | | BLAN | K /BLANK S | SPIKE /] | BLANK S | SPIKE DUP | LICATE | RECOVI | ERY STUI | γ | |
| | 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 | rtes | | [B] | [C] | [D] | [E] | Result [F] | [G] | | | | |
| Gasoline F | Range Hydrocarbons (GRO) | <15.0 | 1000 | 939 | 94 | 1000 | 944 | 94 | 1 | 70-135 | 20 | |
| Diesel Rar | nge Organics (DRO) | <15.0 | 1000 | 954 | 95 | 1000 | 967 | 97 | 1 | 70-135 | 20 | |

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

Version: 1.%



Form 3 - MS / MSD Recoveries

Project Name: Jefe BSJ Federa Com 1H



| Work Order # : 594239 | | | | | | Project II |) : | | | | |
|--|--|---|---|---|--|---|--|---|--|--|------|
| Lab Batch ID: 3058496 | QC- Sample ID: | 593924 | -001 S | Ba | tch #: | 1 Matri | x: Soil | | | | |
| Date Analyzed: 08/01/2018 | Date Prepared: | 08/01/2 | 018 | Ar | nalyst: A | ALJ | | | | | |
| Reporting Units: mg/kg | | Μ | ATRIX SPIK | E / MAT | 'RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| BTEX by EPA 8021B | Parent Sample Result | Spike Added | Spiked Sample Result | Spiked Sample %B | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | [A] | [B] | [0] | [D] | [E] | itesuit [i] | [G] | | | | |
| Benzene | <0.00201 | 0.100 | 0.0710 | 71 | 0.0998 | 0.0665 | 67 | 7 | 70-130 | 35 | X |
| Toluene | <0.00201 | 0.100 | 0.0726 | 73 | 0.0998 | 0.0635 | 64 | 13 | 70-130 | 35 | X |
| Ethylbenzene | <0.00201 | 0.100 | 0.0788 | 79 | 0.0998 | 0.0641 | 64 | 21 | 70-130 | 35 | X |
| m,p-Xylenes | < 0.00402 | 0.201 | 0.154 | 77 | 0.200 | 0.122 | 61 | 23 | 70-130 | 35 | X |
| o-Xylene | < 0.00201 | 0.100 | 0.0777 | 78 | 0.0998 | 0.0622 | 62 | 22 | 70-130 | 35 | X |
| Lab Batch ID: 3058608 | QC- Sample ID: | 593804 | -001 S | Ba | tch #: | 1 Matrix | x: Soil | | | | |
| | | | | | | | | | | | |
| Date Analyzed: 08/01/2018 | Date Prepared: | 08/01/2 | 018 | Ar | nalyst: S | SCM | | | | | |
| Date Analyzed:08/01/2018Reporting Units:mg/kg | Date Prepared: | 08/01/2 M | 018 I ATRIX SPIK | Ar E / MAT | nalyst: S RIX SPI | SCM KE DUPLICA | TE REC | OVERY | STUDY | | |
| Date Analyzed: 08/01/2018 Reporting Units: mg/kg Inorganic Anions by EPA 300/300.1 | Date Prepared: Parent Sample | 08/01/2 M Spike | 018 ATRIX SPIK Spiked Sample Result | Ar E / MAT Spiked Sample | nalyst: S RIX SPI | SCM KE DUPLICA Duplicate Spiked Sample | TE REC Spiked Dup. | OVERY : | STUDY Control Limits | Control Limits | Flag |
| Date Analyzed: 08/01/2018 Reporting Units: mg/kg Inorganic Anions by EPA 300/300.1 Analytes | Date Prepared: Parent Sample Result [A] | 08/01/2 M Spike Added [B] | 018 ATRIX SPIK Spiked Sample Result [C] | Ar E / MAT Spiked Sample %R [D] | nalyst: S RIX SPI Spike Added [E] | SCM KE DUPLICA Duplicate Spiked Sample Result [F] | TE REC Spiked Dup. %R [G] | OVERY RPD % | STUDY Control Limits %R | Control Limits %RPD | Flag |
| Date Analyzed: 08/01/2018 Reporting Units: mg/kg Inorganic Anions by EPA 300/300.1 Analytes Chloride | Date Prepared: Parent Sample Result [A] 212 | 08/01/2 M Spike Added [B] 249 | 018 ATRIX SPIK Spiked Sample Result [C] 479 | Ar E / MAT Spiked Sample %R [D] 107 | RIX SPI Spike Added [E] 249 | SCM KE DUPLICA Duplicate Spiked Sample Result [F] 470 | TE REC Spiked Dup. %R [G] 104 | OVERY S | STUDY Control Limits %R 90-110 | Control Limits %RPD 20 | Flag |
| Date Analyzed: 08/01/2018 Reporting Units: mg/kg Inorganic Anions by EPA 300/300.1 Analytes Chloride Lab Batch ID: 3058608 | Date Prepared: Parent Sample Result [A] 212 QC- Sample ID: | 08/01/2 M Spike Added [B] 249 593866 | 018 ATRIX SPIK Spiked Sample Result [C] 479 -001 S | Ar E / MAT Spiked Sample %R [D] 107 Ba | nalyst: S RIX SPI Spike Added [E] 249 atch #: | SCM KE DUPLICA Duplicate Spiked Sample Result [F] 470 1 Matrix | TE REC Spiked Dup. %R [G] 104 x: Soil | OVERY S RPD % | STUDY Control Limits %R 90-110 | Control Limits %RPD 20 | Flag |
| Date Analyzed:08/01/2018Reporting Units:mg/kgInorganic Anions by EPA 300/300.1AnalytesChlorideLab Batch ID:3058608Date Analyzed:08/01/2018 | Date Prepared: Parent Sample Result [A] 212 QC- Sample ID: Date Prepared: | 08/01/2 M Spike Added [B] 249 593866 08/01/2 | 018 ATRIX SPIK Spiked Sample Result [C] 479 -001 S 018 | Ar E / MAT Spiked Sample %R [D] 107 Ba Ar | nalyst: S RIX SPI Spike Added [E] 249 ntch #: nalyst: S | SCM KE DUPLICA Duplicate Spiked Sample Result [F] 470 1 Matric SCM | TE REC Spiked Dup. %R [G] 104 x: Soil | OVERY S | STUDY Control Limits %R 90-110 | Control Limits %RPD 20 | Flag |
| Date Analyzed:08/01/2018Reporting Units:mg/kgInorganic Anions by EPA 300/300.1AnalytesChlorideLab Batch ID:3058608Date Analyzed:08/01/2018Reporting Units:mg/kg | Date Prepared: Parent Sample Result [A] 212 QC- Sample ID: Date Prepared: | 08/01/2 M Spike Added [B] 249 593866 08/01/2 M | 018 ATRIX SPIK Spiked Sample Result [C] 479 -001 S 018 ATRIX SPIK | Ar E / MAT Spiked Sample %R [D] 107 Ba Ar E / MAT | nalyst: S TRIX SPI Spike Added [E] 249 atch #: nalyst: S TRIX SPI | SCM KE DUPLICA Duplicate Spiked Sample Result [F] 470 1 Matri: SCM KE DUPLICA | TE REC Spiked Dup. %R [G] 104 x: Soil TE REC | OVERY S RPD % 2 OVERY S | STUDY Control Limits %R 90-110 STUDY | Control Limits %RPD 20 | Flag |
| Date Analyzed: 08/01/2018 Reporting Units: mg/kg Inorganic Anions by EPA 300/300.1 Analytes Chloride Inorganic Anions Lab Batch ID: 3058608 Date Analyzed: 08/01/2018 Reporting Units: mg/kg Inorganic Anions by EPA 300/300.1 | Date Prepared: Parent Sample Result [A] 212 QC- Sample ID: Date Prepared: Parent Sample Result | 08/01/2 M Spike Added [B] 249 593866 08/01/2 M Spike Added | 018 ATRIX SPIK Spiked Sample Result [C] 479 -001 S 018 ATRIX SPIK Spiked Sample Result [C] | Ar E / MAT Spiked Sample %R [D] 107 Ba Ar E / MAT Spiked Sample %R | nalyst: S RIX SPI Added [E] 249 ntch #: nalyst: S RIX SPI Spike Added | SCM KE DUPLICA Duplicate Spiked Sample Result [F] 470 1 Matrix SCM KE DUPLICA Duplicate Spiked Sample Result [F] | TE REC Spiked Dup. %R [G] 104 x: Soil X: Soil TE REC Spiked Dup. %R | OVERY S RPD % 2 OVERY S RPD % | STUDY Control Limits %R 90-110 STUDY Control Limits %R | Control Limits %RPD 20 Control Limits %RPD | Flag |
| Date Analyzed:08/01/2018Reporting Units:mg/kgInorganic Anions by EPA 300/300.1AnalytesChlorideLab Batch ID:3058608Date Analyzed:08/01/2018Reporting Units:mg/kgInorganic Anions by EPA 300/300.1Analytes | Date Prepared: Parent Sample Result [A] 212 QC- Sample ID: Date Prepared: Result [A] Parent Sample Result [A] | 08/01/2 M Spike Added [B] 249 593866 08/01/2 M Spike Added [B] | 018 ATRIX SPIK Spiked Sample Result [C] 479 -001 S 018 ATRIX SPIK Spiked Sample Result [C] | Ar E / MAT Spiked Sample %R [D] 107 Ba Ar E / MAT Spiked Sample %R [D] | nalyst: S RIX SPI Spike Added [E] 249 ntch #: nalyst: S RIX SPI Spike Added [E] | SCM KE DUPLICA Duplicate Spiked Sample Result [F] 470 1 Matrie SCM KE DUPLICA Duplicate Spiked Sample Result [F] | TE REC Spiked Dup. %R [G] 104 x: Soil TE REC Spiked Dup. %R [G] | OVERY S RPD % 2 OVERY S RPD % | STUDY Control Limits %R 90-110 STUDY Control Limits %R | Control Limits %RPD 20 Control Limits %RPD | Flag |

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

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

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Form 3 - MS / MSD Recoveries

Project Name: Jefe BSJ Federa Com 1H



| Work Order # : | 594239 | | | | | | Project II |) : | | | | |
|-------------------------|--------------------|------------------|--------------|-------------------------|------------------|--------------|----------------------------|----------------|--------|-------------------|-------------------|------|
| Lab Batch ID: | 3058552 | C- Sample ID: | 594239 | -001 S | Ba | tch #: | 1 Matri | x: Soil | | | | |
| Date Analyzed: | 08/01/2018 | Date Prepared: | 08/01/2 | 018 | An | alyst: A | ARM | | | | | |
| Reporting Units: | mg/kg | | Μ | ATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERYS | STUDY | | |
| Г | TPH By SW8015 Mod | Parent Sample | Spike | Spiked Sample Result | Spiked 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 | |
| Gasoline Range I | Hydrocarbons (GRO) | <15.0 | 999 | 860 | 86 | 998 | 856 | 86 | 0 | 70-135 | 20 | |
| Diesel Range Or | ganics (DRO) | <15.0 | 999 | 882 | 88 | 998 | 878 | 88 | 0 | 70-135 | 20 | |

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

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



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Received by OCD: 10/14/2021 3:18:08 PM

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Received by OCD: 10/14/2021 3:18:08 PM



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: 08/01/2018 11:19:00 AM Temperature Measuring device used : R8 Work Order #: 594239 Comments Sample Receipt Checklist 2.3 #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

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

Analyst:

PH Device/Lot#:

#18 Water VOC samples have zero headspace?

Checklist completed by: But Tul Brianna Teel

Date: 08/01/2018

N/A

Checklist reviewed by: Jessign Warmer

Jessica Kramer

Date: 08/01/2018

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

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

District III

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

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

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

CONDITIONS

| Operator: Q | OGRID: |
|-------------------|---|
| EOG RESOURCES INC | 7377 |
| P.O. Box 2267 A | Action Number: |
| Midland, TX 79702 | 56125 |
| A | Action Type: |
| | [C-141] Release Corrective Action (C-141) |
| | |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|-------------------|
| amaxwell | None | 9/13/2022 |

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