TETRA TECH

September 3, 2021

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Subject: **Release Characterization and Closure Request**
ConocoPhillips
EVGSAU 3202-009W Wellhead Release
Unit Letter O, Section 32, Township 17 South, and Range 35 East
Lea County, New Mexico
Incident ID nAPP2116234581

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to evaluate a release that occurred from the East Vacuum Grayburg San Andres Unit (EVGSAU) 3202-009W Well (API No. 30-025-26518). The ConocoPhillips EVGSAU 3202-009W well is located approximately 9.6 miles southeast of Maljamar in Lea County, New Mexico (Figures 1 and 2). The well is located in the Public Land Survey System (PLSS) Unit Letter O, Section 32, Township 17 South, and Range 33 East. The coordinates of the release area (Site) are 32.784620°, -103.476625°.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), on June 8, 2021 a gate valve and master valve were left open at the EVGSAU 3202-009W after maintenance was performed at the well. This event resulted in an unplanned release of natural gas to the atmosphere estimated at 158 MCF. Following discovery of the release, the well was shut in. This event also resulted in a release of 0.18 barrels (bbls) of brine water to the lease pad surface. The fluid release affected a portion of the lease pad near the wellhead which encompassed an area of approximately 928 square feet.

The June 8, 2021 release footprint was wholly contained on the caliche lease pad as shown in Figure 3. The release was predominantly gas, and no fluid was able to be recovered at the time of release. Notice was given to the New Mexico Oil Conservation Division (NMOCD) on June 8, 2021, and the Site was subsequently assigned Incident Identification (ID) nAPP2116234581.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, public or private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The Site is located in a low karst potential area.

Based on data from the New Mexico Office of the State Engineer (NMOSE), there are 3 water wells located within a ½-mile (800-meter) radius of the Site. The average depth to groundwater is 76 ft below ground surface (bgs). The site characterization data is shown in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action

levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

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

SITE ASSESSMENT AND SAMPLING RESULTS

In order to characterize the release footprint and achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted soil sampling on August 27, 2021. A total of six (6) borings were installed within the release footprint and along the perimeter of the EVGSAU 2302-009W lease pad using a hand auger. Two (2) borings (AH-5 and AH-6) were installed inside the release footprint to a depth of 3 ft bgs to achieve vertical delineation. Four (4) borings (AH-1 through AH-4) were installed along the edge of the lease pad to a depth of 1 ft bgs to horizontally bound the release to the lease pad. The approximate release extent and boring locations are shown in Figure 3.

A total of ten (10) samples were collected from the six (6) borings, field screened for salinity using an ExStik and submitted to Eurofins Xenco Laboratory in Midland, TX to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

The results of the site assessment event are summarized in Table 1. The analytical results associated with the borings installed within the release extent (AH-5 and AH-6), as compared to the Site RRALs, were below concentration limits for chloride, TPH and BTEX. Additionally, the analytical results associated with the borings installed at the perimeter of the lease pad (AH-1 through AH-4) were below the reclamation requirements for chloride, TPH and BTEX. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C.

Based on the groundwater determination as described in the Site Characterization (greater than 50 feet below ground surface), and as this fluid release contains on-pad surface soil chloride concentrations of less than 10,000 mg/kg, the analytical results collected from AH-5 and AH-6 stand as a vertical definition. The analytical results within the perimeter horizontal borings determine the lateral extent of this fluid release and are 600 mg/kg chloride or less. Based on the site assessment results, the impacted surface area of the release on the production lease pad meets the remediation standards of Table I of 19.15.29.12 NMAC. Final reclamation of any impact within the lease pad area shall take place in accordance with 19.15.29.13 (D) NMAC once the Site is no longer being used for oil and gas operations. Therefore, reclamation of the soils located within the confines of the EVGSAU 3202-009W well pad will be delayed until the abandonment of the EVGSAU 3202-009W well. Photographic documentation of site conditions at the time of site assessment activities is included as Appendix D.

CONCLUSION

There are no Table I exceedances at the on-pad release site. Based on the assessment, COP requests closure for this release. This final closure report has been submitted within 90 days of discovery of the release. This final closure report details the release characterization and site assessment activities and analytical results.

As noted, on-site reclamation and restoration will occur once the well is plugged and operations have ceased at this active well pad. Should you have any questions or comments regarding this report, please do not hesitate to contact me by email at christian.llull@tetratech.com.

Sincerely,

Tetra Tech, Inc.

Christian M. Llull, P.G.
Project Manager

cc:
Ms. Kelsey Waggaman, GPBU – ConocoPhillips
Mr. Luke Alejandro, GPBU – ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Figure 1 – Site Location Map
Figure 2 – Topographic Map
Figure 3 – Approximate Release Extent

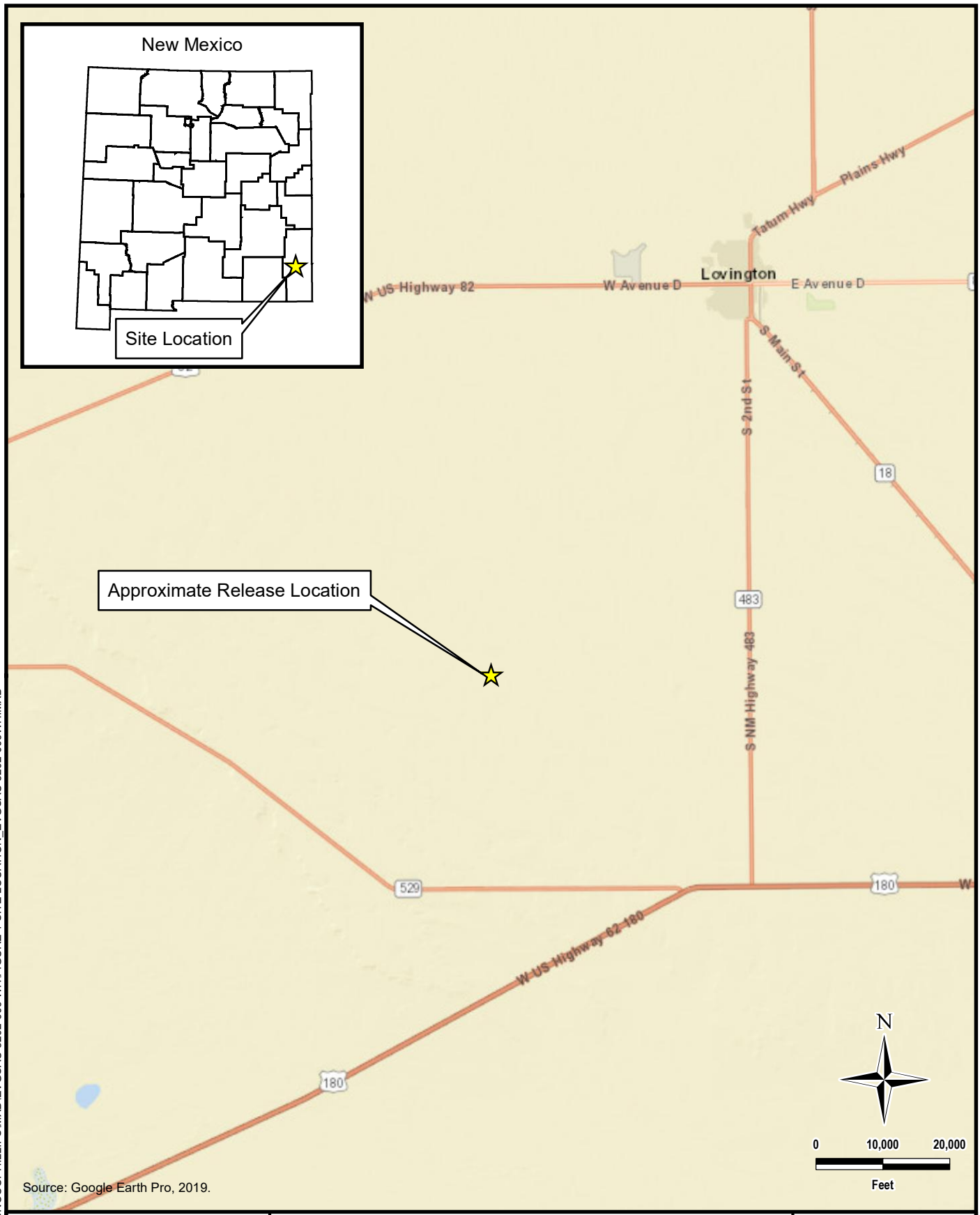
Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

Appendix A – C-141 Forms
Appendix B – Site Characterization Data
Appendix C – Laboratory Analytical Data
Appendix D – Photographic Documentation

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU 3202-009 WH\FIGURE 1 SITE LOCATION_EVGSAU 3202-009WH.MXD

TETRA TECH
www.tetratech.com
901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

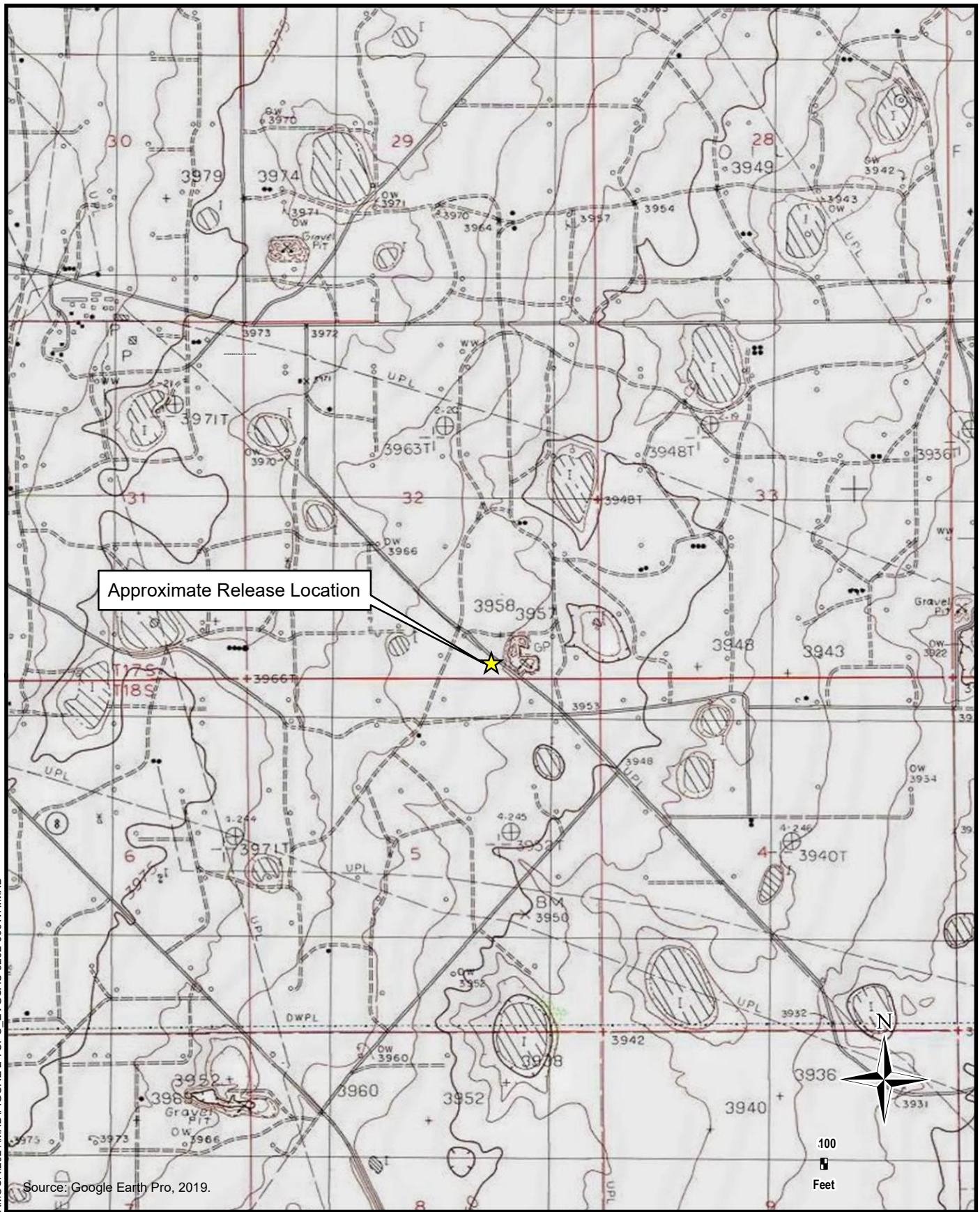
CONOCOPHILLIPS

NAPP2116234581
(32.784620°, -103.476625°)
LEA COUNTY, NEW MEXICO

EVGSAU 3202-009W WH RELEASE
SITE LOCATION MAP

PROJECT NO.:	212C-MD-02377
DATE:	SEPTEMBER 01, 2021
DESIGNED BY:	AAM

Figure No.
1



DOCUMENT PATH: D:\FORMOSA\2021\MXD\FIGURE 2 TOPO_EVGSAU 3202-009WH.MXD

TETRA TECH
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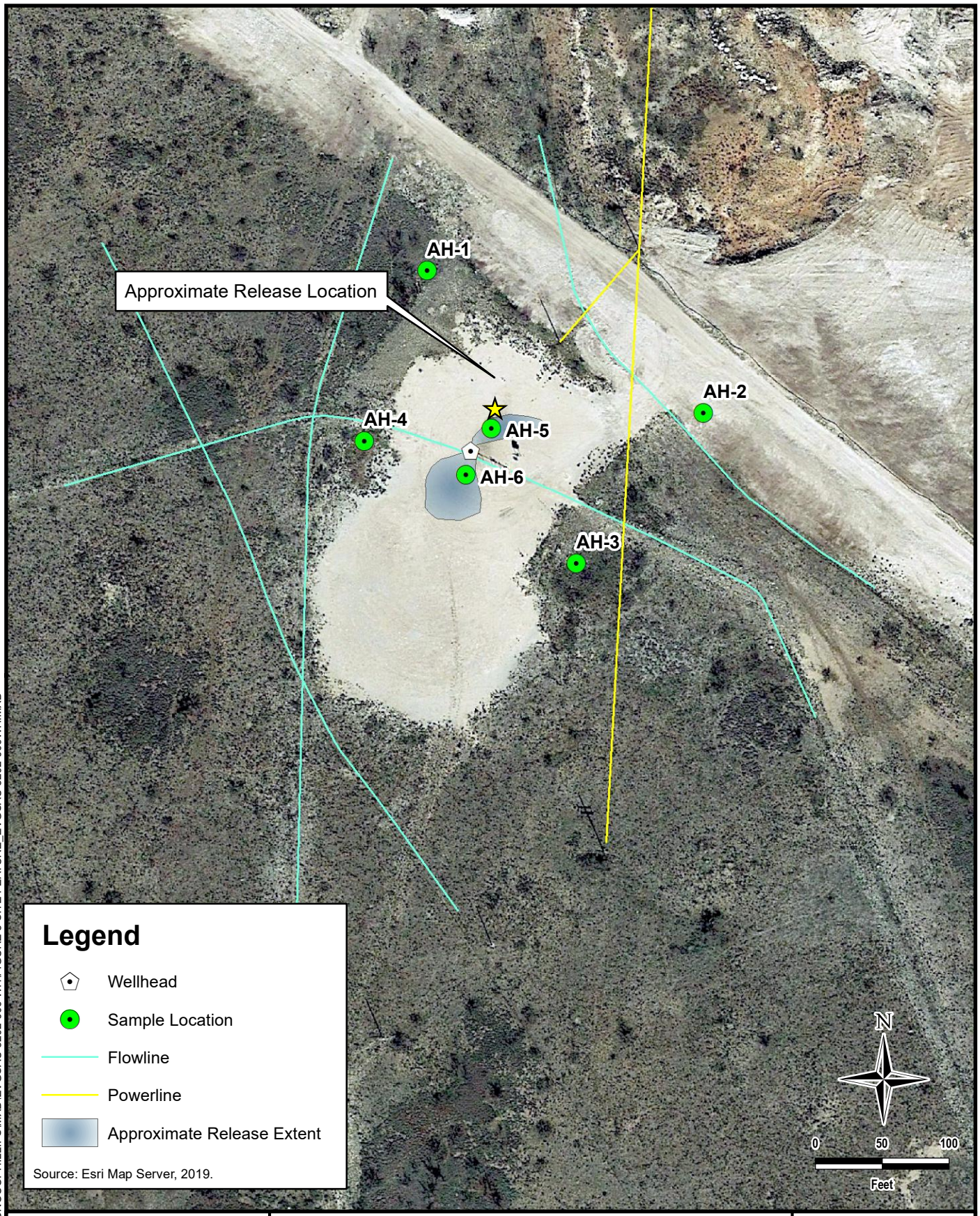
CONOCOPHILLIPS

NAPP2116234581
(32.784620°, -103.476625°)
LEA COUNTY, NEW MEXICO

EVGSAU 3202-009W WH RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-02377
DATE:	SEPTEMBER 01, 2021
DESIGNED BY:	AAM

Figure No.
2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU 3202-009 WH\FIGURE 3 SITE FEATURE_EVGSAU 3202-009WH.MXD

TETRA TECH

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CONOCOPHILLIPS

NAPP2116234581
(32.784620°, -103.476625°)
LEA COUNTY, NEW MEXICO

EVGSAU 3202-009W WH RELEASE
APPROXIMATE RELEASE EXTENT

PROJECT NO.:	212C-MD-02377
DATE:	SEPTEMBER 01, 2021
DESIGNED BY:	AAM

Figure No.
3

TABLE

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - NAPP2116234581
CONOCOPHILLIPS
EVGSAU 3202-009W WELLHEAD RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results	Chloride[1]		BTEX[2]												TPH[3]							
			Chloride			Benzene		Toluene		Ethylbenzene		m,p-Xylene		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		ORO		Total TPH (GRO+DRO+ORO)
																				C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}		
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-1	8/27/2021	0-1	40.5	5.64		< 0.00198		< 0.00198		< 0.00198		< 0.00396		< 0.00198		< 0.00396		< 0.00396		< 49.8		< 49.8		< 49.8		< 49.8
AH-2	8/27/2021	0-1	49.5	7.42		< 0.00200		< 0.00200		< 0.00200		< 0.00400		< 0.00200		< 0.00400		< 0.00400		< 49.9		< 49.9		< 49.9		< 49.9
AH-3	8/27/2021	0-1	182	43.8		< 0.00199		< 0.00199		< 0.00199		< 0.00398		< 0.00199		< 0.00398		< 0.00398		< 49.8		< 49.8		< 49.8		< 49.8
AH-4	8/27/2021	0-1	210	51.2		< 0.00202		< 0.00202		< 0.00202		< 0.00404		< 0.00202		< 0.00404		< 0.00404		< 49.9		< 49.9		< 49.9		< 49.9
AH-5	8/27/2021	0-1	4090	4,020		< 0.00199		< 0.00199		< 0.00199		< 0.00398		< 0.00199		< 0.00398		< 0.00398		< 49.9		< 49.9		< 49.9		< 49.9
		1-2	3890	3,130		< 0.00202		< 0.00202		< 0.00202		< 0.00403		< 0.00202		< 0.00403		< 0.00403		< 49.8		< 49.8		< 49.8		< 49.8
		2-3	1510	3,140		< 0.00200		< 0.00200		< 0.00200		< 0.00399		< 0.00200		< 0.00399		< 0.00399		< 50.0		< 50.0		< 50.0		< 50.0
AH-6	8/27/2021	0-1	935	1,130		< 0.00201		< 0.00201		< 0.00201		< 0.00402		< 0.00201		< 0.00402		< 0.00402		< 50.0		< 50.0		< 50.0		< 50.0
		1-2	1420	1,900		< 0.00200		< 0.00200		< 0.00200		< 0.00401		< 0.00200		< 0.00401		< 0.00401		< 49.9		52.3		< 49.9		52.3
		2-3	1520	1,720		< 0.00200		< 0.00200		< 0.00200		< 0.00399		< 0.00200		< 0.00399		< 0.00399		< 49.9		< 49.9		< 49.9		< 49.9

NOTES:

ft. Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
ORO Oil range organics
1 EPA Method 300.0
2 EPA Method 8021B
3 EPA Method 8015B NM

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

APPENDIX A
C-141 Forms

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2116234581
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817
Contact Name	Kelsy Waggaman	Contact Telephone	505-677-9071
Contact email	Kelsy.Waggaman@conocophillips.com	Incident # *(assigned by OCD)*	nAPP2116234581
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.784645 Longitude -103.476631
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	EVGSAU 3202-009W	Site Type	Well Pad
Date Release Discovered	June 8, 2021	API# *(if applicable)*	30-025-26518

Unit Letter	Section	Township	Range	County
O	32	17S	35E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 158	Volume Recovered (Mcf) 0
☒ Other (describe) 10# brine water	Volume/Weight Released (provide units) 0.18 bbl	Volume/Weight Recovered (provide units) 0 bbl

Cause of Release

After workover rig left location, gate valve and master valve were left open allowing well to release gas to atmosphere. Well was shut in with 603 PSI at gauge on flowline. Gas volume released estimated at 158 MCF. No injuries occurred. Incident under investigation.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2116234581
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ■ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Kelsy Waggaman
Title: Environmental Coordinator

Signature:
Date: 6/8/21

email: kelsy.waggaman@conocophillips.com
Telephone: (505)577-9071

OCD Only

Received by: Ramona Marcus
Date: 6/28/2021

NAPP2116234581

L48 Spill Volume Estimate Form

Facility Name & Number:	EVGBSAU 3202-009
Asset Area:	Buckeye,NM
Release Discovery Date & Time:	8-Jun-21
Release Type:	Other
Provide any known details about the event:	Gas vapor mixture released from wellhead

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	60.0	8.0	0.13	10.50%	0.890	0.093
Rectangle B	56.0	8.0	0.13	10.50%	0.831	0.087
Rectangle C					0.000	0.000
Rectangle D					0.000	0.000
Rectangle E					0.000	0.000
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Rectangle J					0.000	0.000
					Total Volume Release:	0.181

Facility Name: 3202-009W Regulated Entity No. (RN):

Date of discovery: 6/8/21 Time of discovery:

Event was ongoing for 0.20 Hours

This event is attributed to

Cause of Emission Event or Excess opacity Event, or Reason for Scheduled Activity	After workover rig left location, gate valve and master valve were left open allowing well to release gas to atmosphere. Well was shut in with 603 PSI at gauge on flowline. Gas volume released estimated at 158 MCF. No injuries occurred. Incident under investigation.
Actions Taken, or Being Taken, to Minimize Emissions And/or Correct the Situation	
Basis Used to Determine Quantities and Any Additional Information Necessary to Evaluate the Event	

Location Properties
Unit Method

Calculations

158	Gas vented in **Mscf** (1,000 x scf)
0.00	ppm H2S
46.80	Wt. % VOC
51.65	MW
10,076.59	Total lbs VOC
85.25	Total lbs H2S

TCEQ Reportable Quantity?

Yes	10,076.59	lbs VOC per 24 hrs. (Reportable to TCEQ if ≥ 5,000 lbs)
No	0.00	lbs benzene per 24 hrs. (Reportable to TCEQ if ≥ 10 lbs)

GAS COMPOSITION (Low Pressure Gas Stream):

	LHV (BTU/scf)	Mole %	MW	Net MW	Net LHV (BTU/scf)	Wt. %	Weight lbs	
Nitrogen N2	0	0.818	28.01	0.23	0.00	0.44	95.53	
Carbon Dioxide C02	0	57.937	44.01	25.50	0.00	49.37	10,629.80	
Oxygen O2	0		32.00	0.00	0.00	0.00	0.00	
H2S	578	0.6	34.08	0.20	3.47	0.40	85.25	
Methane C1	896	3.87	16.04	0.62	34.66	1.20	258.83	
Ethane C2	1594	3.077	30.07	0.93	49.05	1.79	385.73	
Propane C3	2280	3.87	44.10	1.70	88.12	3.30	710.52	
i-Butane I-C4	2955	1.319	58.12	0.77	38.98	1.48	319.60	
n-Butane N-C4	2965	5.178	58.12	3.01	153.54	5.83	1,254.67	
i-Pentane I-C5	3643	4.419	72.15	3.19	160.98	6.17	1,329.16	
n-Pentane N-C5	3651	5.703	72.15	4.11	208.20	7.97	1,715.37	
Hexanes+ C-6+	4328	13.214	86.18	11.39	571.93	22.05	4,747.27	
Heptanes+	5419		100.20	0.00	0.00	0.00	0.00	
*Benzene	3591		78.11	0.00	0.00	0.00	0.00	Benzene
*Toluene	4274		92.14	0.00	0.00	0.00	0.00	Toluene
Totals		100.00		51.65	1309	100.00		

Maximum lbs of listed Individual Compound vented	4,747.27
Total lbs of VOCs vented	10,076.59
Total lbs of Flammable Gas vented	10,806.39
Total lbs of H2S vented	85.25

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2116234581
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?	76 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☑ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2116234581
District RP	
Facility ID	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kelsy Waggaman Title: Environmental Engineer

Signature: Kelsy Waggaman Date: 9/3/21

email: Kelsy.Waggaman@ConocoPhillips.com Telephone: 505-577-9071

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2116234581
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: Kelsy Waggaman Title: Environmental Engineer

Signature: Kelsy Waggaman Date: 9/3/21

email: Kelsy.Waggaman@ConocoPhillips.com Telephone: 505-577-9071

OCD Only

Received by: Chad Hensley Date: 10/04/2021

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

Closure Approved by: Chad Hensley Date: 10/04/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

APPENDIX B
Site Characterization Data

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04829 S	L	LE	3	4	32	17S	35E	642554	3628586*		161	198	85	113
L 04931	L	LE	1	2	05	18S	35E	642561	3628183*		291	237	70	167
L 04591	L	LE	4	2	05	18S	35E	642970	3627785*		744	130	75	55

Average Depth to Water: **76 feet**

Minimum Depth: **70 feet**

Maximum Depth: **85 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 642654.962 **Northing (Y):** 3628459.397 **Radius:** 800

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

New Mexico NFHL Data

August 5, 2021

1:4,514

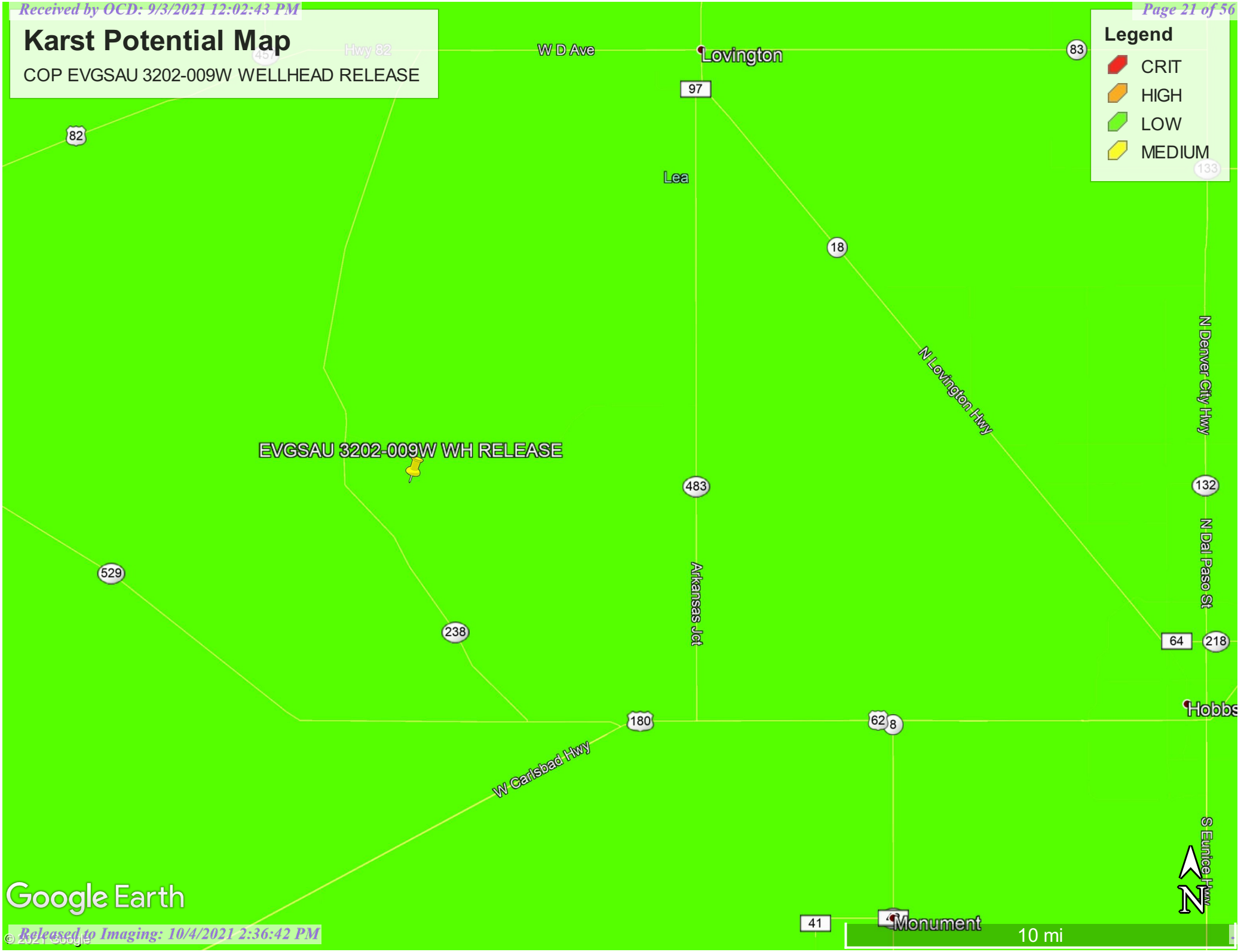
0 0.0375 0.075 0.15 mi

0 0.05 0.1 0.2 km

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

Karst Potential Map

COP EVGSAU 3202-009W WELLHEAD RELEASE



APPENDIX C
Laboratory Analytical Results

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-5545-1
Laboratory Sample Delivery Group: Lea County, New Mexico
Client Project/Site: EVGSAU 3202-009W Wellhead Release

For:
Tetra Tech, Inc.
8911 N. Capital of Texas Hwy
Bldg. 2, Ste 2310
Austin, Texas 78759

Attn: Christian Llull

JKramer

Authorized for release by:
8/31/2021 2:03:44 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.
Project/Site: EVGSAU 3202-009W Wellhead Release

Laboratory Job ID: 880-5545-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Job ID: 880-5545-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-5545-1

Receipt
The samples were received on 8/27/2021 4:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Client Sample ID: AH-1 (0'-1')
Lab Sample ID: 880-5545-1
Date Collected: 08/27/21 09:00 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/21 08:36	08/30/21 18:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/21 08:36	08/30/21 18:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/21 08:36	08/30/21 18:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/21 08:36	08/30/21 18:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/21 08:36	08/30/21 18:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/21 08:36	08/30/21 18:23	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		08/30/21 08:36	08/30/21 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/30/21 08:36*	*08/30/21 18:23*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/30/21 08:36*	*08/30/21 18:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 13:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 13:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 13:47	1
Total TPH	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/30/21 09:18*	*08/30/21 13:47*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/30/21 09:18*	*08/30/21 13:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.64**		5.05		mg/Kg			08/30/21 17:09	1

Client Sample ID: AH-2 (0'-1')
Lab Sample ID: 880-5545-2
Date Collected: 08/27/21 09:30 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 18:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 18:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 18:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/21 08:36	08/30/21 18:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 18:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/21 08:36	08/30/21 18:43	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/30/21 08:36	08/30/21 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/30/21 08:36*	*08/30/21 18:43*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/30/21 08:36*	*08/30/21 18:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 14:08	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Client Sample ID: AH-2 (0'-1')

Lab Sample ID: 880-5545-2
Date Collected: 08/27/21 09:30 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 14:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 14:08	1
Total TPH	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*08/30/21 09:18*	*08/30/21 14:08*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/30/21 09:18*	*08/30/21 14:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.42**		5.01		mg/Kg			08/30/21 17:25	1

Client Sample ID: AH-3 (0'-1')

Lab Sample ID: 880-5545-3
Date Collected: 08/27/21 10:00 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/21 08:36	08/30/21 19:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/21 08:36	08/30/21 19:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/21 08:36	08/30/21 19:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/21 08:36	08/30/21 19:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/21 08:36	08/30/21 19:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/21 08:36	08/30/21 19:03	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		08/30/21 08:36	08/30/21 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/30/21 08:36*	*08/30/21 19:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/30/21 08:36*	*08/30/21 19:03*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 14:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 14:30	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 14:30	1
Total TPH	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/30/21 09:18*	*08/30/21 14:30*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/30/21 09:18*	*08/30/21 14:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.8**		4.95		mg/Kg			08/30/21 17:30	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Client Sample ID: AH-4 (0'-1')

Lab Sample ID: 880-5545-4
Date Collected: 08/27/21 10:30 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/21 08:36	08/30/21 19:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/21 08:36	08/30/21 19:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/21 08:36	08/30/21 19:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/30/21 08:36	08/30/21 19:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/21 08:36	08/30/21 19:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/30/21 08:36	08/30/21 19:24	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		08/30/21 08:36	08/30/21 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/30/21 08:36*	*08/30/21 19:24*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/30/21 08:36*	*08/30/21 19:24*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 14:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 14:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 14:51	1
Total TPH	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/30/21 09:18*	*08/30/21 14:51*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/30/21 09:18*	*08/30/21 14:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.2**		4.98		mg/Kg			08/30/21 17:36	1

Client Sample ID: AH-5 (0'-1')

Lab Sample ID: 880-5545-5
Date Collected: 08/27/21 11:00 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/21 08:36	08/30/21 19:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/21 08:36	08/30/21 19:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/21 08:36	08/30/21 19:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/21 08:36	08/30/21 19:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/21 08:36	08/30/21 19:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/21 08:36	08/30/21 19:44	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		08/30/21 08:36	08/30/21 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/30/21 08:36*	*08/30/21 19:44*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/30/21 08:36*	*08/30/21 19:44*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 15:12	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Client Sample ID: AH-5 (0'-1')

Lab Sample ID: 880-5545-5
Matrix: Solid
Date Collected: 08/27/21 11:00
Date Received: 08/27/21 16:37

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 15:12	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 15:12	1
Total TPH	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/30/21 09:18*	*08/30/21 15:12*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/30/21 09:18*	*08/30/21 15:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4020**		24.9		mg/Kg			08/30/21 17:41	5

Client Sample ID: AH-5 (1'-2')

Lab Sample ID: 880-5545-6
Matrix: Solid
Date Collected: 08/27/21 11:30
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/21 08:36	08/30/21 20:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/21 08:36	08/30/21 20:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/21 08:36	08/30/21 20:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/21 08:36	08/30/21 20:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/21 08:36	08/30/21 20:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/21 08:36	08/30/21 20:05	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		08/30/21 08:36	08/30/21 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/30/21 08:36*	*08/30/21 20:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/30/21 08:36*	*08/30/21 20:05*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 15:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 15:33	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 15:33	1
Total TPH	<49.8	U	49.8		mg/Kg		08/30/21 09:18	08/30/21 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/30/21 09:18*	*08/30/21 15:33*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/30/21 09:18*	*08/30/21 15:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3130**		25.1		mg/Kg			08/30/21 17:46	5

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Client Sample ID: AH-5 (2'-3')

Lab Sample ID: 880-5545-7
Date Collected: 08/27/21 12:30 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 20:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 20:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 20:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/21 08:36	08/30/21 20:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 20:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/21 08:36	08/30/21 20:25	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		08/30/21 08:36	08/30/21 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/30/21 08:36*	*08/30/21 20:25*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/30/21 08:36*	*08/30/21 20:25*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 16:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 16:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 16:30	1
Total TPH	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/30/21 09:18*	*08/30/21 16:30*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/30/21 09:18*	*08/30/21 16:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3140**		24.8		mg/Kg			08/30/21 17:51	5

Client Sample ID: AH-6 (0'-1')

Lab Sample ID: 880-5545-8
Date Collected: 08/27/21 13:00 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/21 08:36	08/30/21 20:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/21 08:36	08/30/21 20:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/21 08:36	08/30/21 20:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/21 08:36	08/30/21 20:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/21 08:36	08/30/21 20:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/21 08:36	08/30/21 20:46	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		08/30/21 08:36	08/30/21 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/30/21 08:36*	*08/30/21 20:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/30/21 08:36*	*08/30/21 20:46*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 16:51	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Client Sample ID: AH-6 (0'-1')
Lab Sample ID: 880-5545-8
Date Collected: 08/27/21 13:00 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 16:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 16:51	1
Total TPH	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/30/21 09:18*	*08/30/21 16:51*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/30/21 09:18*	*08/30/21 16:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1130**		5.01		mg/Kg			08/30/21 18:07	1

Client Sample ID: AH-6 (1'-2')
Lab Sample ID: 880-5545-9
Date Collected: 08/27/21 13:30 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 21:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 21:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 21:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/21 08:36	08/30/21 21:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 21:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/21 08:36	08/30/21 21:06	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		08/30/21 08:36	08/30/21 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/30/21 08:36*	*08/30/21 21:06*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/30/21 08:36*	*08/30/21 21:06*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 17:13	1
Diesel Range Organics (Over C10-C28)	**52.3**		49.9		mg/Kg		08/30/21 09:18	08/30/21 17:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 17:13	1
Total TPH	**52.3**		49.9		mg/Kg		08/30/21 09:18	08/30/21 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/30/21 09:18*	*08/30/21 17:13*	*1*
o-Terphenyl	*97*		*70 - 130*	*08/30/21 09:18*	*08/30/21 17:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1900**		24.9		mg/Kg			08/30/21 18:12	5

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Client Sample ID: AH-6 (2'-3')

Lab Sample ID: 880-5545-10
Date Collected: 08/27/21 14:00 **Matrix: Solid**
Date Received: 08/27/21 16:37

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 21:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 21:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 21:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/21 08:36	08/30/21 21:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 21:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/21 08:36	08/30/21 21:27	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		08/30/21 08:36	08/30/21 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/30/21 08:36*	*08/30/21 21:27*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/30/21 08:36*	*08/30/21 21:27*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 17:34	1
Total TPH	<49.9	U	49.9		mg/Kg		08/30/21 09:18	08/30/21 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/30/21 09:18*	*08/30/21 17:34*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/30/21 09:18*	*08/30/21 17:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1720**		24.9		mg/Kg			08/30/21 18:28	5

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-5542-A-1-B MS	Matrix Spike	120	107
880-5542-A-1-C MSD	Matrix Spike Duplicate	120	102
880-5545-1	AH-1 (0'-1')	117	100
880-5545-2	AH-2 (0'-1')	113	100
880-5545-3	AH-3 (0'-1')	113	100
880-5545-4	AH-4 (0'-1')	123	99
880-5545-5	AH-5 (0'-1')	107	105
880-5545-6	AH-5 (1'-2')	117	97
880-5545-7	AH-5 (2'-3')	97	99
880-5545-8	AH-6 (0'-1')	116	100
880-5545-9	AH-6 (1'-2')	113	100
880-5545-10	AH-6 (2'-3')	111	98
LCS 880-7245/1-A	Lab Control Sample	112	108
LCS 880-7246/1-A	Lab Control Sample	118	97
LCSD 880-7245/2-A	Lab Control Sample Dup	111	104
LCSD 880-7246/2-A	Lab Control Sample Dup	112	105
MB 880-7245/5-A	Method Blank	107	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID		
890-1176-A-1-B MSD	Matrix Spike Duplicate		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-5545-1	AH-1 (0'-1')	105	108
880-5545-2	AH-2 (0'-1')	83	87
880-5545-3	AH-3 (0'-1')	100	101
880-5545-4	AH-4 (0'-1')	96	101
880-5545-5	AH-5 (0'-1')	95	101
880-5545-6	AH-5 (1'-2')	106	112
880-5545-7	AH-5 (2'-3')	114	119
880-5545-8	AH-6 (0'-1')	97	104
880-5545-9	AH-6 (1'-2')	92	97
880-5545-10	AH-6 (2'-3')	106	108
890-1179-A-1-E MS	Matrix Spike	89	81

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-1179-A-1-F MSD	Matrix Spike Duplicate	85	80								
LCS 880-7252/2-A	Lab Control Sample	104	100								
LCSD 880-7252/3-A	Lab Control Sample Dup	120	112								
MB 880-7252/1-A	Method Blank	109	115								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7245/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7253 **Prep Batch: 7245**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 13:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/21 08:36	08/30/21 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/21 08:36	08/30/21 13:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/21 08:36	08/30/21 13:35	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/30/21 08:36	08/30/21 13:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/30/21 08:36*	*08/30/21 13:35*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/30/21 08:36*	*08/30/21 13:35*	*1*

Lab Sample ID: LCS 880-7245/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7253 **Prep Batch: 7245**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08992		mg/Kg		90	70 - 130		
Toluene			0.100	0.08682		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.08595		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1790		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.09037		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-7245/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7253 **Prep Batch: 7245**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08521		mg/Kg		85	70 - 130	5	35
Toluene			0.100	0.08112		mg/Kg		81	70 - 130	7	35
Ethylbenzene			0.100	0.08223		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1712		mg/Kg		86	70 - 130	4	35
o-Xylene			0.100	0.08604		mg/Kg		86	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-1176-A-1-B MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7253 **Prep Batch: 7245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.07816		mg/Kg					

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QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1176-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7253 — **Prep Batch: 7245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.00200	U	0.0994	0.07323		mg/Kg					
Ethylbenzene	<0.00200	U	0.0994	0.06943		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1438		mg/Kg					
o-Xylene	<0.00200	U	0.0994	0.07362		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: LCS 880-7246/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7253 — **Prep Batch: 7246**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07741		mg/Kg		77	70 - 130		
Toluene			0.100	0.07910		mg/Kg		79	70 - 130		
Ethylbenzene			0.100	0.08002		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1669		mg/Kg		83	70 - 130		
o-Xylene			0.100	0.08510		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-7246/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7253 — **Prep Batch: 7246**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07536		mg/Kg		75	70 - 130	3	35
Toluene			0.100	0.07399		mg/Kg		74	70 - 130	7	35
Ethylbenzene			0.100	0.07524		mg/Kg		75	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1567		mg/Kg		78	70 - 130	6	35
o-Xylene			0.100	0.07936		mg/Kg		79	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-5542-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7253 — **Prep Batch: 7246**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U	0.101	0.07386		mg/Kg		73	70 - 130		
Toluene	<0.00199	U	0.101	0.07309		mg/Kg		72	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.07653		mg/Kg		76	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1605		mg/Kg		79	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5542-A-1-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7253 **Prep Batch: 7246**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	<0.00199	U	0.101	0.08161		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-5542-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7253 **Prep Batch: 7246**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.07143		mg/Kg		71	70 - 130	3	35
Toluene	<0.00199	U	0.100	0.07166		mg/Kg		72	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.07366		mg/Kg		74	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1526		mg/Kg		76	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.07848		mg/Kg		78	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-7252/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7249 **Prep Batch: 7252**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 10:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 10:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 10:36	1
Total TPH	<50.0	U	50.0		mg/Kg		08/30/21 09:18	08/30/21 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*08/30/21 09:18*	*08/30/21 10:36*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/30/21 09:18*	*08/30/21 10:36*	*1*

Lab Sample ID: LCS 880-7252/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7249 **Prep Batch: 7252**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1027		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	951.0		mg/Kg		95	70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-7252/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7249 **Prep Batch: 7252**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-7252/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7249 **Prep Batch: 7252**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1168		mg/Kg		117	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	1081		mg/Kg		108	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-1179-A-1-E MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7249 **Prep Batch: 7252**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	883.2		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	78.3		995	786.1		mg/Kg		71	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 890-1179-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 7249 **Prep Batch: 7252**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	860.0		mg/Kg		86	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	78.3		998	773.4		mg/Kg		70	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	80		70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7259/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 7265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/30/21 16:21	1

Lab Sample ID: LCS 880-7259/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 7265

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	270.1		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-7259/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 7265

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	269.0		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-5545-7 MS **Client Sample ID: AH-5 (2'-3')**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 7265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	3140		1240	4368		mg/Kg		100	90 - 110		

Lab Sample ID: 880-5545-7 MSD **Client Sample ID: AH-5 (2'-3')**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 7265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3140		1240	4358		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

GC VOA

Prep Batch: 7245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5545-1	AH-1 (0'-1')	Total/NA	Solid	5035	
880-5545-2	AH-2 (0'-1')	Total/NA	Solid	5035	
880-5545-3	AH-3 (0'-1')	Total/NA	Solid	5035	
880-5545-4	AH-4 (0'-1')	Total/NA	Solid	5035	
880-5545-5	AH-5 (0'-1')	Total/NA	Solid	5035	
880-5545-6	AH-5 (1'-2')	Total/NA	Solid	5035	
880-5545-7	AH-5 (2'-3')	Total/NA	Solid	5035	
880-5545-8	AH-6 (0'-1')	Total/NA	Solid	5035	
880-5545-9	AH-6 (1'-2')	Total/NA	Solid	5035	
880-5545-10	AH-6 (2'-3')	Total/NA	Solid	5035	
MB 880-7245/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7245/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7245/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1176-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 7246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-7246/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7246/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5542-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-5542-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 7253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5545-1	AH-1 (0'-1')	Total/NA	Solid	8021B	7245
880-5545-2	AH-2 (0'-1')	Total/NA	Solid	8021B	7245
880-5545-3	AH-3 (0'-1')	Total/NA	Solid	8021B	7245
880-5545-4	AH-4 (0'-1')	Total/NA	Solid	8021B	7245
880-5545-5	AH-5 (0'-1')	Total/NA	Solid	8021B	7245
880-5545-6	AH-5 (1'-2')	Total/NA	Solid	8021B	7245
880-5545-7	AH-5 (2'-3')	Total/NA	Solid	8021B	7245
880-5545-8	AH-6 (0'-1')	Total/NA	Solid	8021B	7245
880-5545-9	AH-6 (1'-2')	Total/NA	Solid	8021B	7245
880-5545-10	AH-6 (2'-3')	Total/NA	Solid	8021B	7245
MB 880-7245/5-A	Method Blank	Total/NA	Solid	8021B	7245
LCS 880-7245/1-A	Lab Control Sample	Total/NA	Solid	8021B	7245
LCS 880-7246/1-A	Lab Control Sample	Total/NA	Solid	8021B	7246
LCSD 880-7245/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7245
LCSD 880-7246/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7246
880-5542-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	7246
880-5542-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7246
890-1176-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7245

GC Semi VOA

Analysis Batch: 7249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5545-1	AH-1 (0'-1')	Total/NA	Solid	8015B NM	7252
880-5545-2	AH-2 (0'-1')	Total/NA	Solid	8015B NM	7252
880-5545-3	AH-3 (0'-1')	Total/NA	Solid	8015B NM	7252
880-5545-4	AH-4 (0'-1')	Total/NA	Solid	8015B NM	7252

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 7249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5545-5	AH-5 (0'-1')	Total/NA	Solid	8015B NM	7252
880-5545-6	AH-5 (1'-2')	Total/NA	Solid	8015B NM	7252
880-5545-7	AH-5 (2'-3')	Total/NA	Solid	8015B NM	7252
880-5545-8	AH-6 (0'-1')	Total/NA	Solid	8015B NM	7252
880-5545-9	AH-6 (1'-2')	Total/NA	Solid	8015B NM	7252
880-5545-10	AH-6 (2'-3')	Total/NA	Solid	8015B NM	7252
MB 880-7252/1-A	Method Blank	Total/NA	Solid	8015B NM	7252
LCS 880-7252/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7252
LCSD 880-7252/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7252
890-1179-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	7252
890-1179-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7252

Prep Batch: 7252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5545-1	AH-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-5545-2	AH-2 (0'-1')	Total/NA	Solid	8015NM Prep	
880-5545-3	AH-3 (0'-1')	Total/NA	Solid	8015NM Prep	
880-5545-4	AH-4 (0'-1')	Total/NA	Solid	8015NM Prep	
880-5545-5	AH-5 (0'-1')	Total/NA	Solid	8015NM Prep	
880-5545-6	AH-5 (1'-2')	Total/NA	Solid	8015NM Prep	
880-5545-7	AH-5 (2'-3')	Total/NA	Solid	8015NM Prep	
880-5545-8	AH-6 (0'-1')	Total/NA	Solid	8015NM Prep	
880-5545-9	AH-6 (1'-2')	Total/NA	Solid	8015NM Prep	
880-5545-10	AH-6 (2'-3')	Total/NA	Solid	8015NM Prep	
MB 880-7252/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7252/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7252/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1179-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1179-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5545-1	AH-1 (0'-1')	Soluble	Solid	DI Leach	
880-5545-2	AH-2 (0'-1')	Soluble	Solid	DI Leach	
880-5545-3	AH-3 (0'-1')	Soluble	Solid	DI Leach	
880-5545-4	AH-4 (0'-1')	Soluble	Solid	DI Leach	
880-5545-5	AH-5 (0'-1')	Soluble	Solid	DI Leach	
880-5545-6	AH-5 (1'-2')	Soluble	Solid	DI Leach	
880-5545-7	AH-5 (2'-3')	Soluble	Solid	DI Leach	
880-5545-8	AH-6 (0'-1')	Soluble	Solid	DI Leach	
880-5545-9	AH-6 (1'-2')	Soluble	Solid	DI Leach	
880-5545-10	AH-6 (2'-3')	Soluble	Solid	DI Leach	
MB 880-7259/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7259/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7259/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5545-7 MS	AH-5 (2'-3')	Soluble	Solid	DI Leach	
880-5545-7 MSD	AH-5 (2'-3')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

HPLC/IC

Analysis Batch: 7265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5545-1	AH-1 (0'-1')	Soluble	Solid	300.0	7259
880-5545-2	AH-2 (0'-1')	Soluble	Solid	300.0	7259
880-5545-3	AH-3 (0'-1')	Soluble	Solid	300.0	7259
880-5545-4	AH-4 (0'-1')	Soluble	Solid	300.0	7259
880-5545-5	AH-5 (0'-1')	Soluble	Solid	300.0	7259
880-5545-6	AH-5 (1'-2')	Soluble	Solid	300.0	7259
880-5545-7	AH-5 (2'-3')	Soluble	Solid	300.0	7259
880-5545-8	AH-6 (0'-1')	Soluble	Solid	300.0	7259
880-5545-9	AH-6 (1'-2')	Soluble	Solid	300.0	7259
880-5545-10	AH-6 (2'-3')	Soluble	Solid	300.0	7259
MB 880-7259/1-A	Method Blank	Soluble	Solid	300.0	7259
LCS 880-7259/2-A	Lab Control Sample	Soluble	Solid	300.0	7259
LCSD 880-7259/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7259
880-5545-7 MS	AH-5 (2'-3')	Soluble	Solid	300.0	7259
880-5545-7 MSD	AH-5 (2'-3')	Soluble	Solid	300.0	7259

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Client Sample ID: AH-1 (0'-1') Lab Sample ID: 880-5545-1

Date Collected: 08/27/21 09:00 **Matrix: Solid**
Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 18:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 13:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			7265	08/30/21 17:09	CH	XEN MID

Client Sample ID: AH-2 (0'-1') Lab Sample ID: 880-5545-2

Date Collected: 08/27/21 09:30 **Matrix: Solid**
Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 18:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 14:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			7265	08/30/21 17:25	CH	XEN MID

Client Sample ID: AH-3 (0'-1') Lab Sample ID: 880-5545-3

Date Collected: 08/27/21 10:00 **Matrix: Solid**
Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 19:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			7265	08/30/21 17:30	CH	XEN MID

Client Sample ID: AH-4 (0'-1') Lab Sample ID: 880-5545-4

Date Collected: 08/27/21 10:30 **Matrix: Solid**
Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 19:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 14:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			7265	08/30/21 17:36	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EVGSAU 3202-009W Wellhead Release

Job ID: 880-5545-1
SDG: Lea County, New Mexico

Client Sample ID: AH-5 (0'-1')

Lab Sample ID: 880-5545-5
Matrix: Solid
Date Collected: 08/27/21 11:00
Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 19:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 15:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		5			7265	08/30/21 17:41	CH	XEN MID

Client Sample ID: AH-5 (1'-2')

Lab Sample ID: 880-5545-6
Matrix: Solid
Date Collected: 08/27/21 11:30
Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 20:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 15:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		5			7265	08/30/21 17:46	CH	XEN MID

Client Sample ID: AH-5 (2'-3')

Lab Sample ID: 880-5545-7
Matrix: Solid
Date Collected: 08/27/21 12:30
Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 20:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 16:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		5			7265	08/30/21 17:51	CH	XEN MID

Client Sample ID: AH-6 (0'-1')

Lab Sample ID: 880-5545-8
Matrix: Solid
Date Collected: 08/27/21 13:00
Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 20:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			7265	08/30/21 18:07	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release
SDG: Lea County, New Mexico

Client Sample ID: AH-6 (1'-2')

Lab Sample ID: 880-5545-9

Date Collected: 08/27/21 13:30

Matrix: Solid

Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 21:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 17:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		5			7265	08/30/21 18:12	CH	XEN MID

Client Sample ID: AH-6 (2'-3')

Lab Sample ID: 880-5545-10

Date Collected: 08/27/21 14:00

Matrix: Solid

Date Received: 08/27/21 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7245	08/30/21 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7253	08/30/21 21:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7252	08/30/21 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7249	08/30/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7259	08/30/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		5			7265	08/30/21 18:28	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release
SDG: Lea County, New Mexico

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc. Job ID: 880-5545-1
Project/Site: EVGSAU 3202-009W Wellhead Release SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: EVGSAU 3202-009W Wellhead Release

Job ID: 880-5545-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5545-1	AH-1 (0'-1')	Solid	08/27/21 09:00	08/27/21 16:37
880-5545-2	AH-2 (0'-1')	Solid	08/27/21 09:30	08/27/21 16:37
880-5545-3	AH-3 (0'-1')	Solid	08/27/21 10:00	08/27/21 16:37
880-5545-4	AH-4 (0'-1')	Solid	08/27/21 10:30	08/27/21 16:37
880-5545-5	AH-5 (0'-1')	Solid	08/27/21 11:00	08/27/21 16:37
880-5545-6	AH-5 (1'-2')	Solid	08/27/21 11:30	08/27/21 16:37
880-5545-7	AH-5 (2'-3')	Solid	08/27/21 12:30	08/27/21 16:37
880-5545-8	AH-6 (0'-1')	Solid	08/27/21 13:00	08/27/21 16:37
880-5545-9	AH-6 (1'-2')	Solid	08/27/21 13:30	08/27/21 16:37
880-5545-10	AH-6 (2'-3')	Solid	08/27/21 14:00	08/27/21 16:37

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

880-5545 Chain of Custody

880-5545

8/31/2021

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 3202-009W Wellhead Release	**Contact Info:**	Email Christian Llull@tetratech com Phone (512) 565-0190
Project Location: **(county, state)**	Lea County, New Mexico	**Project #:**	212C-MD-02377 14
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Eurofins-Xenco	**Sampler Signature:**	Andrew Garcia
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR 2021 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO DRO - ORO MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB s 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	AH-1 (0'-1')	08/27/21	900		X				X		1	N	X		X												X				
	AH-2 (0'-1')	08/27/21	930		X				X		1	N	X		X												X				
	AH-3 (0'-1')	08/27/21	1000		X				X		1	N	X		X												X				
	AH-4 (0'-1')	08/27/21	1030		X				X		1	N	X		X												X				
	AH-5 (0'-1')	08/27/21	1100		X				X		1	N	X		X												X				
	AH-5 (1'-2')	08/27/21	1130		X				X		1	N	X		X												X				
	AH-5 (2'-3')	08/27/21	1230		X				X		1	N	X		X												X				
	AH-6 (0'-1')	08/27/21	1300		X				X		1	N	X		X												X				
	AH-6 (1'-2')	08/27/21	1330		X				X		1	N	X		X												X				
	AH-6 (2'-3')	08/27/21	1400		X				X		1	N	X		X												X				

Relinquished by: Andrew Garcia	Date: 27-Aug-21	Time:	Received by:	Date: 8/27/21	Time: 1637
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature 4.1/4.6 +0.5

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

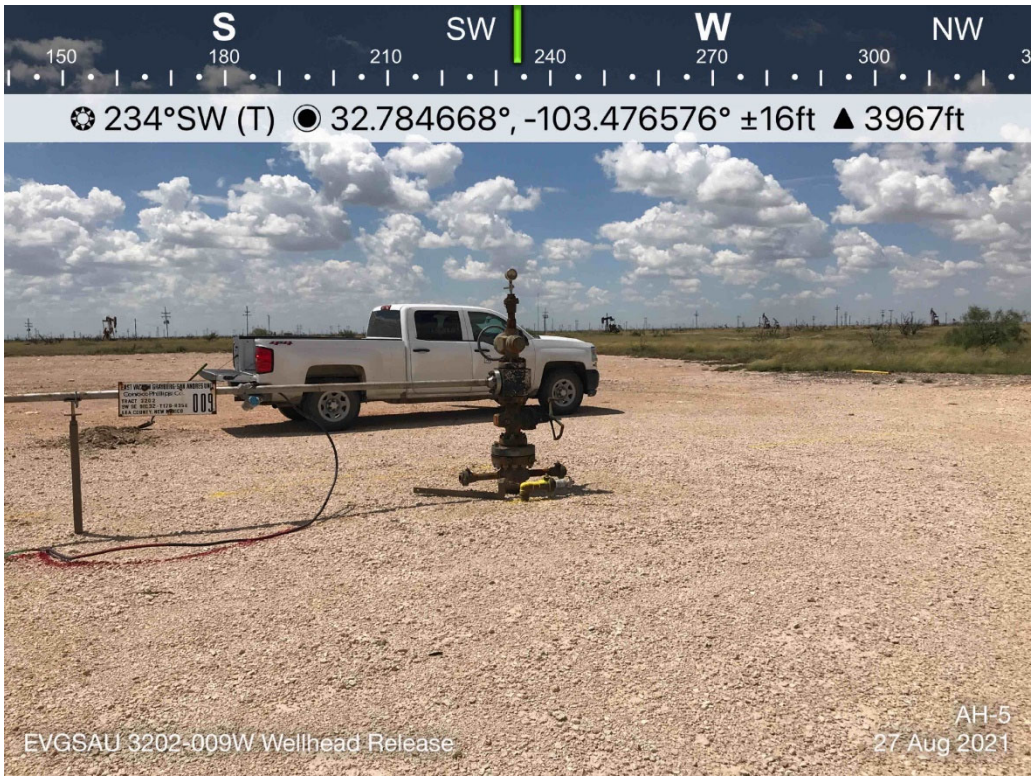
Job Number: 880-5545-1
SDG Number: Lea County, New Mexico

Login Number: 5545
List Number: 1
Creator: Phillips, Kerianna

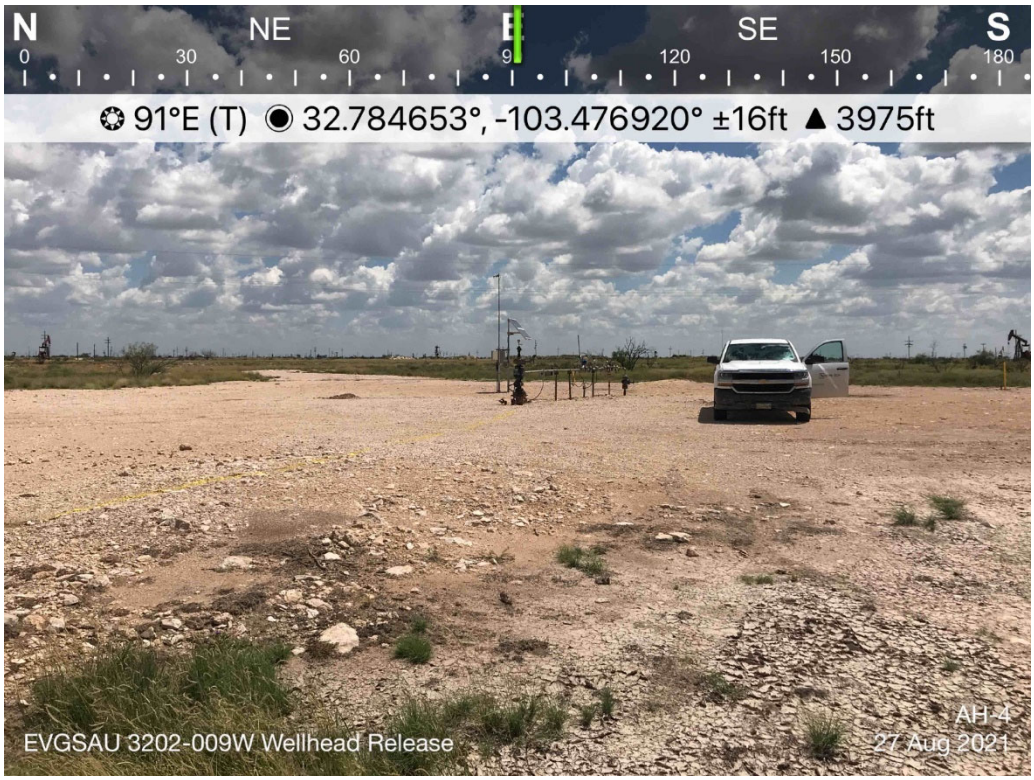
List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

APPENDIX D
Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area atop the lease pad.	1
	SITE NAME	ConocoPhillips EVGSAU 3202-009W Wellhead Release	8/27/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the EVGSAU 3202-009W wellhead from the western extent of lease pad.	2
	SITE NAME	ConocoPhillips EVGSAU 3202-009W Wellhead Release	8/27/2021

TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of adjacent pastureland east of the lease pad.	3
	SITE NAME	ConocoPhillips EVGSAU 3202-009W Wellhead Release	8/27/2021

TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of adjacent pastureland north of the lease pad.	4
	SITE NAME	ConocoPhillips EVGSAU 3202-009W Wellhead Release	8/27/2021

TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of adjacent pastureland northwest of the lease pad.	5
	SITE NAME	ConocoPhillips EVGSAU 3202-009W Wellhead Release	8/27/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 46415

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 46415
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	10/4/2021