TETRA TECH

March 10, 2021

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

Re: Release Characterization and Remediation Work Plan
ConocoPhillips
EVGSAU 2658-011 Wellhead Release
Unit Letter K, Section 26, Township 17 South, Range 35 East
Lea County, New Mexico
1RP-4361
Incident ID nJXK1620849670

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a historical release that occurred at the East Vacuum Grayburg-San Andres Unit (EVGSAU) 2658-011 wellhead (API No. 30-025-02875). The well was plugged on August 12, 2013. The release footprint is located in Public Land Survey System (PLSS) Unit Letter K, Section 32, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.803987°, -103.430429°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release occurred on January 4, 2012 when the well surface casing failed due to suspected internal/external corrosion. The release consisted of 10 barrels (bbls) of crude oil and affected a 100-foot (ft) by 140-ft by 0.5-inch area of well pad and pasture. The release was reported as predominantly overspray. During immediate response actions, the failed casing was replaced, and a vacuum truck recovered 3 bbls of crude oil. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on January 6, 2012 and assigned the release the Remediation Permit (RP) number 1RP-733 and the Incident ID nJXK1620849670.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). However, the lateral extents of the release Site are within 200 feet of a playa lake. The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells located within 800 meters (approximately ½ mile) of the Site, but there are seven (7) water wells within 1,600 meters (approximately 1 mile) of the Site. The average depth to groundwater is 55 ft below ground surface (bgs). The site characterization data is included in Appendix B.

Tetra Tech
901 West Wall St., Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

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 (proximity to a playa lake) and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

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

INITIAL ASSESSMENT ACTIVITIES AND SAMPLING RESULTS

On behalf of COP, Diamondback Disposal Services, Inc (Diamondback) conducted an initial assessment at the Site and documented their findings in an undated Site Remediation Plan (Appendix C). This Remediation Plan is found accompanying the C-141 on the NMOCD imaging database. As documented, on February 15, 2012, Diamondback advanced a total of four (4) soil borings (HA 1 through HA 4) with a hand auger to depths of 18 inches. Samples were collected every 6 inches and sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via EPA Method SM45000Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the analytical laboratory report and chain-of-custody documentation are included in the Site Remediation Plan (Appendix C). The release extent mapped by Diamondback and sample locations are presented in the Excavation Plan (Site diagram) within the Site Remediation Plan (Appendix C) as well as in Figure 3.

The Site Remediation Plan concluded with a work plan proposing to excavate to a depth of 18 inches bgs in the area around sampling locations HA 1 and HA 4 (see Figure 4), generating approximately 300 cubic yards of impacted material to be disposed of at an NMCOD-approved disposal facility. The excavated area would be backfilled and crowned with imported topsoil to shed water. In the areas around HA 2 and HA 3, Diamondback proposed to till native vegetation into the existing soil and re-seed with state-approved seed. The areas that Diamondback proposed for remediation are presented in Figure 3.

Documentation of the recommended remedial actions were not found. Review of available historical aerial imagery from March 2012 revealed evidence of remedial activities conducted in the release area. The remediated extent identified from aerial photography is presented in Figure 4. In the most recently available aerial imagery from November 2017, this area appears to have less vegetative cover than surrounding areas. Although the well that was the source of the release (EVGSAU 2658-011, API No. 30-025-02875) was plugged in August 2013, the pad has not been reclaimed because it still hosts an active production well (Vacuum Abo Unit #069, API No. 30-025-08542).

On behalf of COP, Tetra Tech conducted a visual Site inspection in June 2020 to evaluate current Site conditions. During this visit, uniform vegetative cover was observed in the portion of the release footprint located in the pasture. No soil staining was observed on the caliche well pad or in the pasture. Photographic documentation of the June 2020 Site visit is presented in Appendix D.

ADDITIONAL SITE ASSESSMENT

In order to verify that the remedial actions viewed in aerial imagery were effective in addressing the 1RP-4361 release, Tetra Tech personnel conducted soil sampling in December 2020 on behalf of COP. A total of seven (7) borings (BH-1 through BH-7) were installed using an air rotary drilling rig. Three (3) borings (BH-1 through BH-3) were installed within the release extent to depths ranging from 15 to 30 ft bgs to achieve vertical delineation of the release extent. The remaining four (4) borings (BH-4 through BH-7) were installed along the perimeter of the release extent (to the east, north, south and west, respectively) to a

depth of 4 ft bgs to achieve horizontal delineation. In January 2021 Tetra Tech returned to the Site to install one additional boring (BH-8) to complete horizontal delineation to the west. Soils at the Site consist of approximately 1.5 ft of brown silty clay underlain by a caliche cap rock. Figure 4 depicts the release extent, the remediated extent identified from March 2012 aerial imagery, and the December 2020 and January 2021 soil boring locations. The GPS coordinates for the boring locations are presented in Table 1.

Soils were field screened for salinity using an ExTech EC400 ExStik and for volatile organics using a photoionization detector (PID) to determine sampling intervals. A total of thirty-three (33) samples were collected from the eight (8) borings and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

SUMMARY OF SAMPLING RESULTS

Results from the December 2020 and January 2021 soil sampling events are summarized in Table 2. The analytical results associated with the interior boring locations (BH-2 and BH-3) exceeded the Site chloride RRAL of 600 mg/kg in the 4-5 ft bgs (BH-3), 14-15 ft bgs, and 19-20 ft bgs (BH-2 and BH-3) sample intervals. Additionally, the analytical results associated with the perimeter boring location BH-7, located on pad, exceeded the Site chloride RRAL in the 0-1 ft bgs sample interval. There were no other analytical results which exceeded the chloride RRAL (600 mg/kg) during the additional assessment.

The analytical results associated with the on-pad interior boring location BH-1 exceeded the Site TPH RRAL of 100 mg/kg in the top 3 ft, as did analytical results associated with the 0-1 ft sample interval at boring location BH-7. There were no other analytical results which exceeded the TPH RRAL (100 mg/kg) during the additional assessment. Given that boring location BH-7 is located topographically upgradient from the release point on the caliche well pad, the impacts encountered in the 0-1 ft sample interval at this location are suggestive of historical impacts unrelated to the 1RP-4361 release. Final reclamation shall take place at this location and the remainder of the caliche well pad when the existing well is plugged and abandoned, in accordance with 19.15.29.13 NMAC.

The analytical results associated all samples analyzed were below the Site BTEX RRALs of 50 mg/kg. The release extent was successfully delineated vertically and horizontally during the December 2020 and January 2021 sampling events.

The elevated chloride concentrations encountered at depth in the pasture boring locations BH-2 and BH-3 are indicative of historical impacts unrelated to the 1RP-4361 release, which consisted entirely of crude oil and no produced water. Given that this area hosts uniform vegetative cover, that chloride impacts are absent from the top 4 ft of soils, and that concentrations decrease below the Site RRAL of 600 mg/kg in soils greater than 20 ft bgs, soils in these areas are protective of fresh water, human health, and the environment. The soil disturbance that would be caused by remedial actions taken to address chlorides at the Site would deteriorate existing Site conditions.

REMEDIATION WORK PLAN

Based on the analytical results, COP proposes to remove the remaining impacted material in the vicinity of the BH-1 boring location, as shown in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the RRALs.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 400 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, COP proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Seven (7) confirmation floor samples and eleven (11) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 2,700 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to Pace Laboratories for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 300.0). Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

The majority of the area proposed for remediation at the Site is restricted to an active production area on the caliche well pad, and therefore no Site reclamation is warranted at this time. As previously discussed in the Summary of Sampling Results section, at time of well plugging and abandonment, final reclamation shall take place in accordance with 19.15.29.13 NMAC. The portion of the former release footprint in the pasture supports uniform vegetative cover, indicating that the remedial actions indicated in historical aerial imagery were effective in this portion of the release extent.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 1 year of NMOCD plan approval. The EVGSAU 2658-011 Wellhead Release (1RP-4361) is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively. COP is dedicated to addressing and closing all historical releases included in the ACO-R, and given the number of releases to be addressed, 1 year is anticipated to be a practicable timeline. Upon completion of the proposed work, a final closure report detailing the reclamation activities will be submitted to NMOCD.

If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 739-7874 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.

Samantha K. Abbott, P.G.
Senior Staff Geologist

Christian M. Llull, P.G.
Project Manager

cc:
Mr. Marvin Soriwei, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU – ConocoPhillips

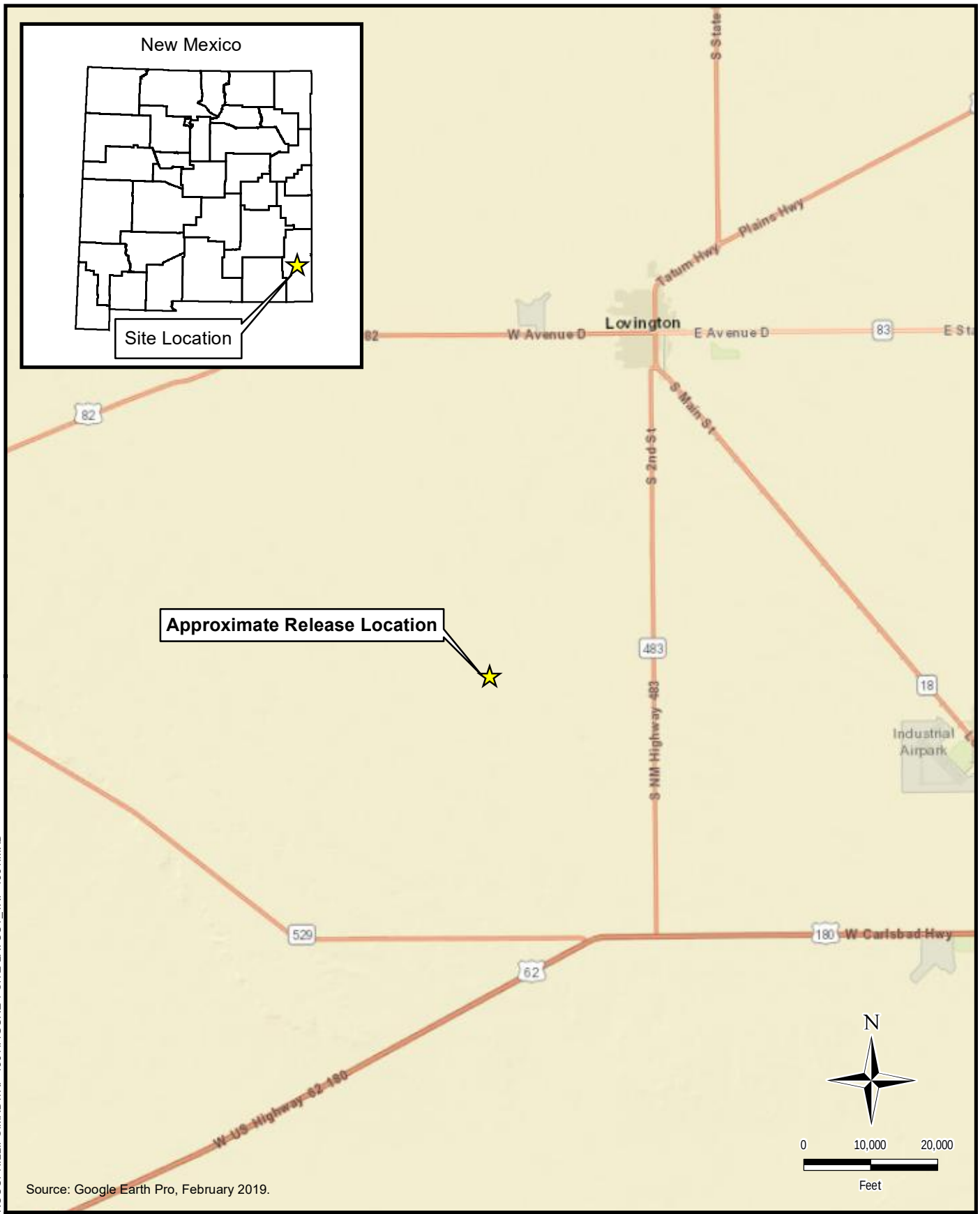
LIST OF ATTACHMENTS

Figures:

Tables:

Appendices:

FIGURES



Source: Google Earth Pro, February 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4361\FIGURE 1 SITE LAYOUT_1RP-4361.MXD

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

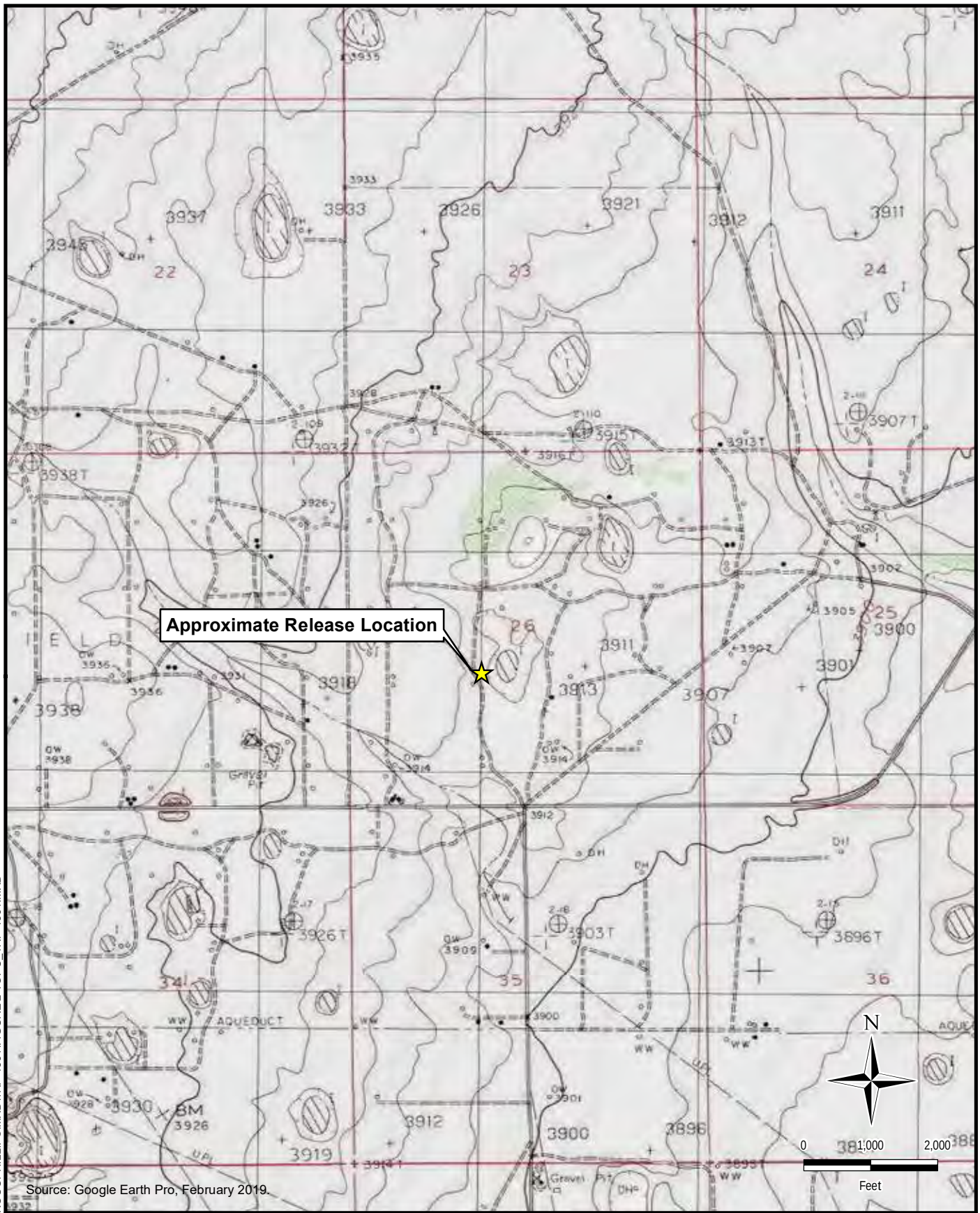
CONOCOPHILLIPS

1RP-4361
(32.80404°, -103.42996°)
LEA COUNTY, NEW MEXICO

EVGSAU 2658-011 WELLHEAD RELEASE
SITE LOCATION MAP

PROJECT NO.:	212C-MD-02334
DATE:	JANUARY 13, 2021
DESIGNED BY:	AAM

Figure No.
1



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4361\FIGURE 2 TOPO_1RP-4361.MXD

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

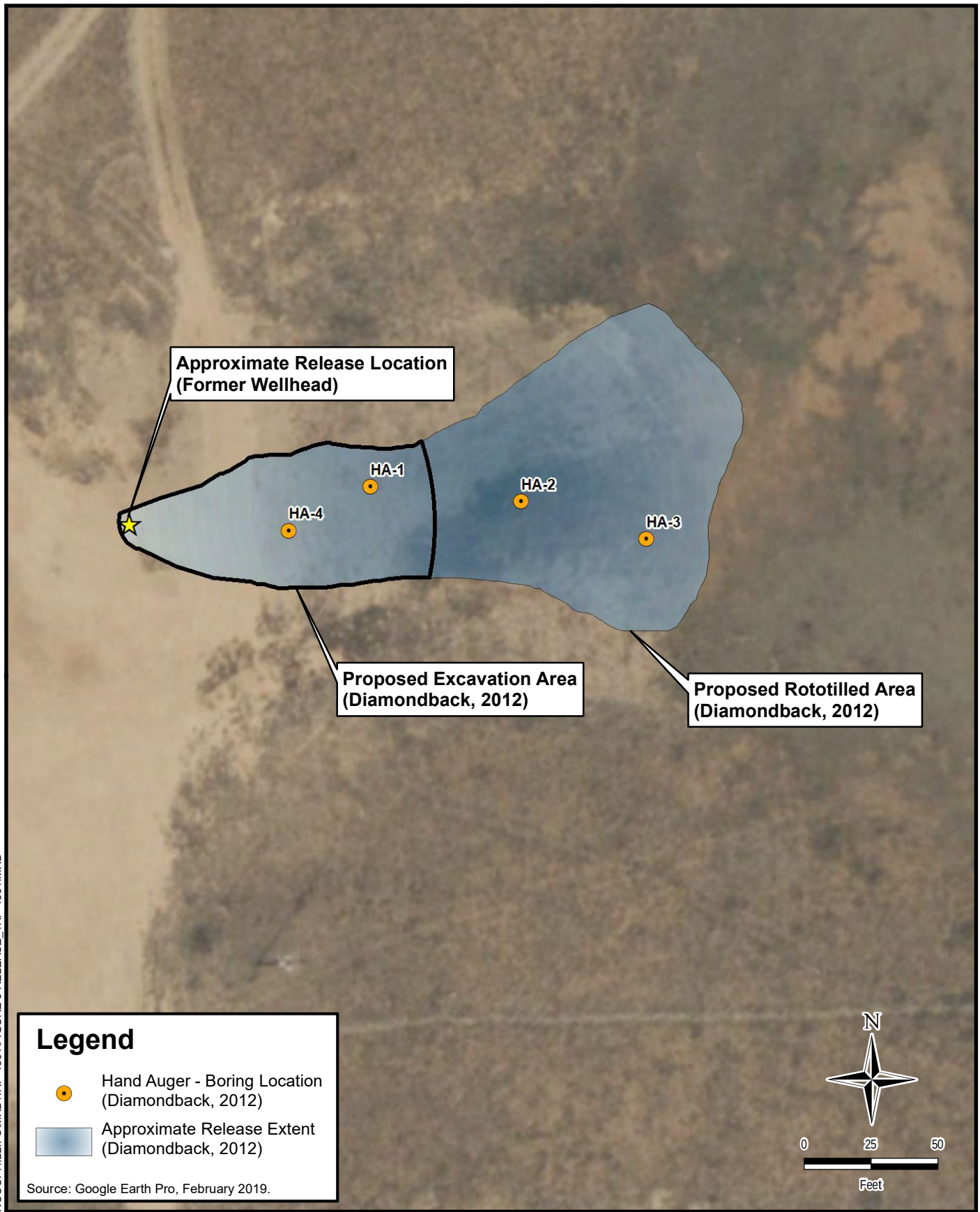
CONOCOPHILLIPS

1RP-4361
(32.80404°, -103.42996°)
LEA COUNTY, NEW MEXICO

EVGSAU 2658-011 WELLHEAD RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-02334
DATE:	JANUARY 13, 2021
DESIGNED BY:	AAM

Figure No.
2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4361\FIGURE 3 RELEASE_1RP-4361.MXD

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

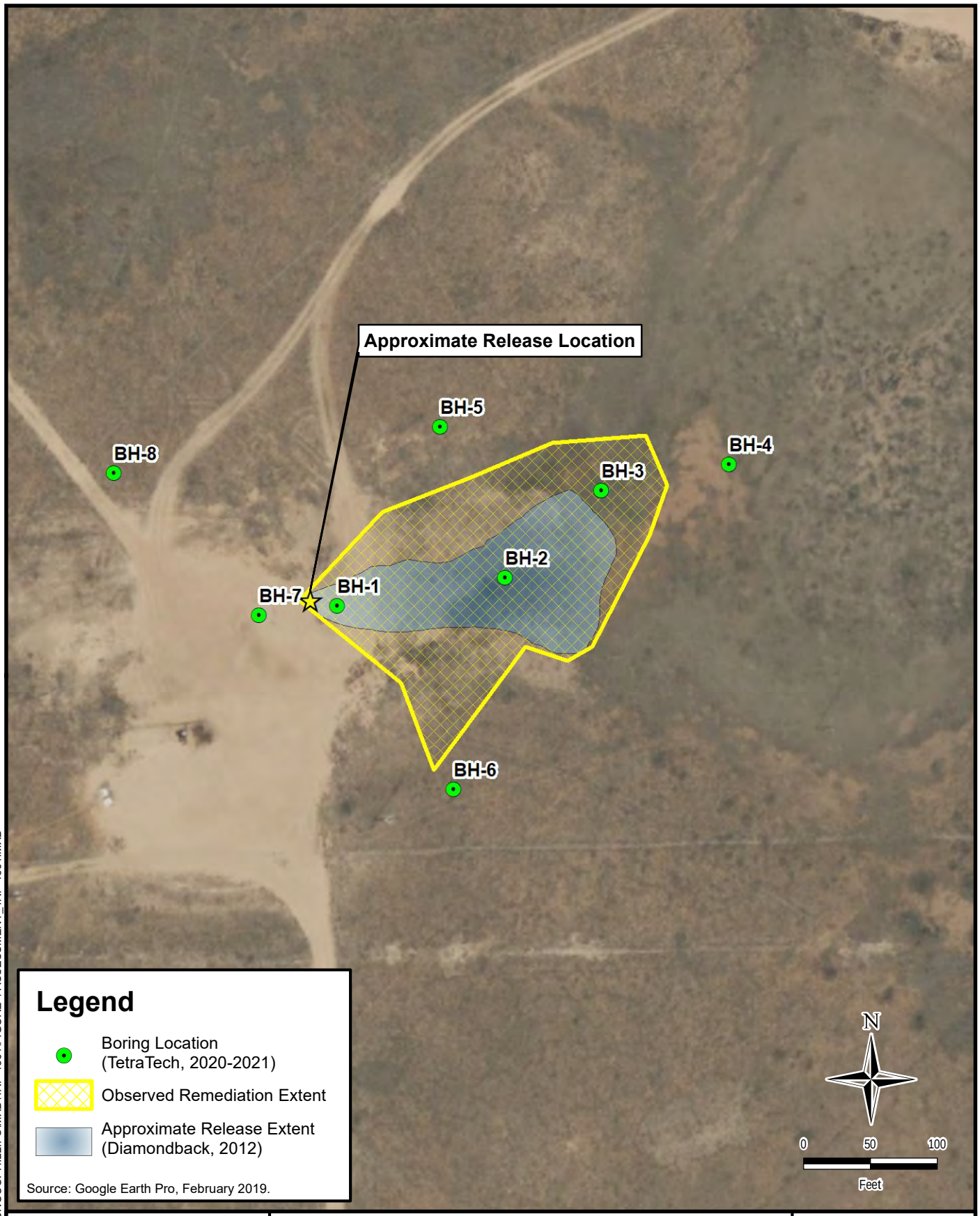
CONOCOPHILLIPS

1RP-4361
(32.80404°, -103.42996°)
LEA COUNTY, NEW MEXICO

EVGSAU 2658-011 WELLHEAD RELEASE
RELEASE EXTENT AND INITIAL SITE ASSESSMENT

PROJECT NO.:	212C-MD-02334
DATE:	FEBRUARY 22, 2021
DESIGNED BY:	AAM

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4361\FIGURE 4 ASSESSMENT_1RP-4361.MXD

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

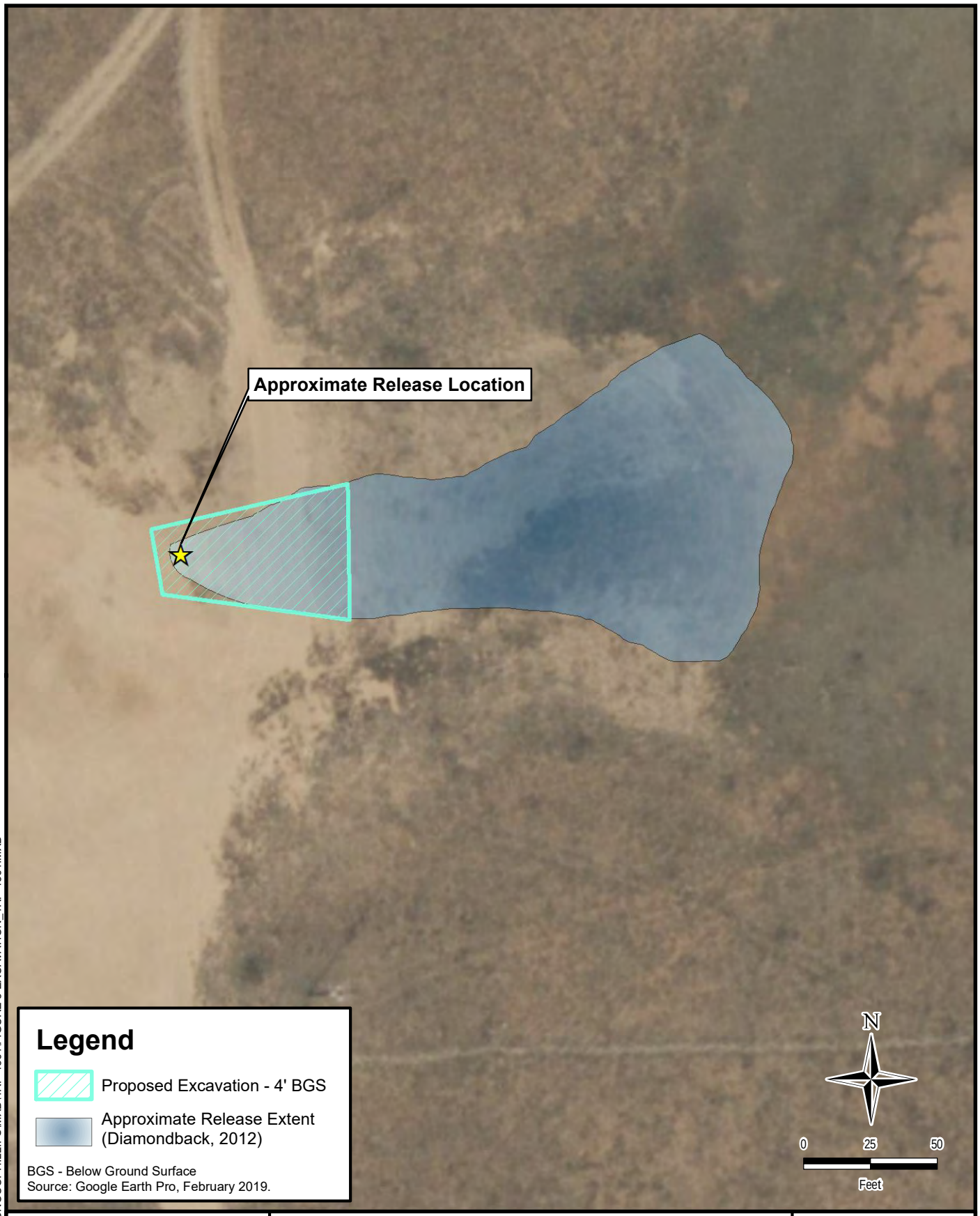
CONOCOPHILLIPS

1RP-4361
(32.80404°, -103.42996°)
LEA COUNTY, NEW MEXICO

EVGSAU 2658-011 WELLHEAD RELEASE
ADDITIONAL SITE ASSESSMENT

PROJECT NO.:	212C-MD-02334
DATE:	FEBRUARY 22, 2021
DESIGNED BY:	AAM

Figure No.
4



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4361\FIGURE 5 EXCAVATION_1RP-4361.MXD

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

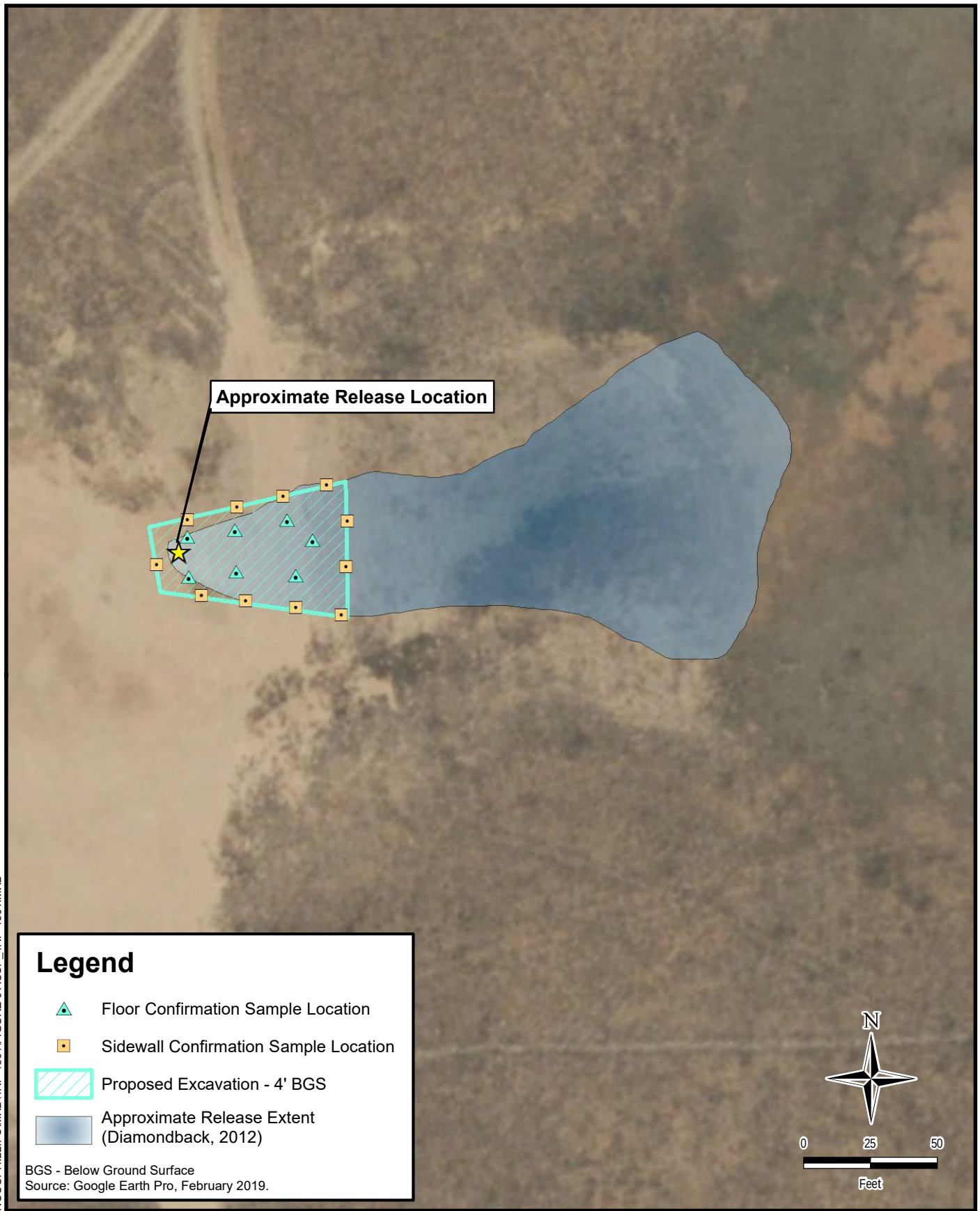
CONOCOPHILLIPS

1RP-4361
(32.80404°, -103.42996°)
LEA COUNTY, NEW MEXICO

EVGSAU 2658-011 WELLHEAD RELEASE
PROPOSED REMEDIATION EXTENT

PROJECT NO.:	212C-MD-02334
DATE:	FEBRUARY 25, 2021
DESIGNED BY:	AAM

Figure No.
5



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4361\FIGURE 6 ACSP_1RP-4361.MXD

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

CONOCOPHILLIPS

1RP-4361
(32.80404°, -103.42996°)
LEA COUNTY, NEW MEXICO

EVGSAU 2658-011 WELLHEAD RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-02334
DATE:	FEBRUARY 25, 2021
DESIGNED BY:	AAM

Figure No.
6

TABLES

TABLE 1
BORING LOCATION COORDINATES
ADDITIONAL SOIL ASSESSMENT - 1RP-4361
CONOCOPHILLIPS
EVGSAU 2658-011 WELLHEAD RELEASE
LEA COUNTY, NM

Boring ID	Latitude	Longitude
BH-1	32.803975	-103.430364
BH-2	32.804030	-103.429954
BH-3	32.804207	-103.429718
BH-4	32.804258	-103.429407
BH-5	32.804341	-103.430109
BH-6	32.803597	-103.430084
BH-7	32.803958	-103.430553

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - 1RP-4361
CONOCOPHILLIPS
EVGSAU 2658-011 WELLHEAD RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride[1]		BTEX[2]										TPH[3]							
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO[4]		DRO		ORO		Total TPH (GRO+DRO+ORO)	
			Chloride	PID													C_3 - C_{10}		C_{10} - C_{28}		C_{28} - C_{40}			
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
BH-1	12/17/2020	0-1	-	-	213		< 0.00110		0.00388	J	0.0234		0.0911		0.1184		2.01	J	674	V	1020		***1696***	
		2-3	-	-	471		< 0.00203		< 0.0102		0.00300	J	0.00823	J	0.01123		< 5.09		120		212		***332***	
		4-5	-	-	193		< 0.00110		< 0.00549		< 0.00274		< 0.00713		-		< 2.74		17.3		27.7		45.0	
		6-7	-	-	134		< 0.00130		< 0.00651		< 0.00325		< 0.00846		-		< 3.25		22.3		28.4		50.7	
		9-10	-	-	119		< 0.00141		< 0.00704		< 0.00352		< 0.00915		-		< 3.52		2.27	J	5.63		7.90	
		14-15	310	0.9	378		< 0.00107		< 0.00536		< 0.00268		< 0.00696		-		< 2.68		11.4		13.9		25.3	
BH-2	12/17/2020	0-1	-	-	48.3		0.00507		0.0208		0.00461	J	0.00461	J	0.0351		< 5.77		8.05		40.8		48.9	
		2-3	-	-	107		< 0.00160		< 0.00799		< 0.00400		0.00144	J	0.00144		< 4.00		3.39	J	16.7		20.1	
		4-5	-	-	142		< 0.00108		< 0.00538		< 0.00269		< 0.00700		-		< 2.69		2.02	J	4.75		6.77	
		6-7	-	-	88.8		< 0.00142		< 0.00712		< 0.00356		< 0.00926		-		< 3.56		< 4.25		0.653	J	0.653	
		9-10	-	-	220		< 0.00163		< 0.00816		< 0.00408		< 0.0106		-		< 4.08		< 4.52		0.811	J	0.811	
		14-15	-	-	***1080***		< 0.00215		< 0.0108		< 0.00538		< 0.0140		-		< 5.38		< 5.08		0.672	J	0.672	
		19-20	1,000	2.1	***830***		< 0.00244		< 0.0122		< 0.00611		< 0.0158		-		< 6.11		< 4.73		0.699	J	0.699	
		24-25	-	-	393		< 0.00118		< 0.00589		< 0.00294		< 0.00766		-		< 2.94		2.11	J	< 4.33		2.11	
		29-30	109	0.5	199		< 0.00113		< 0.00563		< 0.00282		< 0.00732		-		< 2.82		< 4.19		< 4.19		-	
BH-3	12/17/2020	0-1	-	-	65.6		< 0.00122		0.00281	J	0.00216	J	0.00555	J	0.0105		< 3.05		15.8		73.7		89.5	
		2-3	-	-	194		< 0.00120		0.00469	J	0.00283	J	0.00648	J	0.0140		< 3.00		5.33		18.4		23.7	
		4-5	-	-	***1120***		< 0.00125		< 0.00624		< 0.00313		0.00121	J	0.00121		< 3.13		3.59	J	8.67		12.3	
		6-7	-	-	418		< 0.00122		< 0.00612		< 0.00306		< 0.00796		-		< 3.06		< 4.43		0.439	J	0.439	
		9-10	-	-	155		< 0.00128		< 0.00642		< 0.00321		< 0.00835		-		< 3.21		3.72	J	3.39	J	7.11	
		14-15	-	-	***1310***		< 0.00137		< 0.00686		< 0.00343		< 0.00891		-		< 3.43		< 4.70		< 4.70		-	
		19-20	980	1.9	***982***		< 0.00118		< 0.00592		< 0.00297		< 0.00770		-		< 2.97		< 4.30		< 4.30		-	
		24-25	-	-	385		< 0.00184		< 0.00922		< 0.00461		< 0.0120		-		< 4.61		< 4.20		< 4.20		-	
		29-30	205	1.9	131		< 0.00110		< 0.00551		< 0.00275		< 0.00716		-		< 2.75		< 4.19		< 4.19		-	
BH-4	12/17/2020	0-1	198	0.5	20.3	J	< 0.00117		0.00290	J	< 0.00293		0.00106	J	0.00396		< 2.93		7.79		12.5		20.3	
		3-4	101	0.4	< 21.4		< 0.00206		< 0.0103		< 0.00515		< 0.0134		-		< 5.15		2.48	J	3.65	J	6.13	
BH-5	12/17/2020	0-1	209	0.8	32.7		< 0.00117	J3	< 0.00583		0.000991	J	< 0.00758	J3	0.000991		< 2.92		6.76		50.5		57.3	
		3-4	156	0.5	100		< 0.00305		< 0.0153		< 0.00762		< 0.0198		-		< 7.62		5.12		16.3		21.4	
BH-6	12/17/2020	0-1	120	0.2	22.6		0.000661	J	0.00281	J	< 0.00348		< 0.00904		-		< 3.48		9.27		33.5		42.8	
		3-4	180	0.9	78.5		< 0.00124		< 0.00622		< 0.00311		< 0.00809		-		< 3.11		2.57	J	4.27		6.84	
BH-7	12/17/2020	0-1	109	0.5	***949***		< 0.00283		< 0.0141		< 0.00706		< 0.0184		-		< 7.08		61.2		175		***236***	
		3-4	154	0.4	500	J3	< 0.00173		0.00390	J	< 0.00434		< 0.0113		0.00390		< 4.34		9.02		36.6		45.6	
BH-8	2/5/2021	0-1	-	-	58.6		< 0.00112		< 0.00559		< 0.00279		< 0.00726		-		0.0847	B J	14.8		79.9		94.8	

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

Bold and italicized values indicate exceedance of proposed RRALs

Shaded rows indicate intervals proposed for excavation

1 EPA Method 300.0

2 EPA Method 8260B

3 EPA Method 8015

4 EPA Method 8015D/GRO

QUALIFIERS:

J The identification of the analyte is acceptable; the reported value is an estimate.

J3 The associated batch QC was outside the established quality control range for precision.

V The sample concentration is too high to evaluate accurate spike recoveries.

APPENDIX A
C-141 Forms

HOBBS OCD

JAN 0 6 2012

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **ConocoPhillips Company**	Contact **John W. Gates**
Address **3300 North A St. Bldg 6, Midland, TX 79705-5406**	Telephone No. **505.391.3158**
Facility Name **EVGSAU 2658-011**	Facility Type **Oil and Gas**

Surface Owner **Giles Lee**	Mineral Owner **State Of New Mexico**	Lease No **300250287500**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	**26**	**17S**	**35E**					**Lea**

Latitude **Longitude**

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **10bbl (10oil, 0water)**	Volume Recovered **(3oil, 0water)**
Source of Release **Well surface casing**	Date and Hour of Occurrence **01/04/12 1530**	Date and Hour of Discovery **01/04/12 1615**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Release was caused by well surface casing failure due to suspected internal/external corrosion . Workover rig was summed and rigged up on well to replace failed casing.

Describe Area Affected and Cleanup Action Taken.*
100' X 140' X .5" area of well pad and pasture land. Vacuum truck was called and 3 bbls of crude oil was recovered. Majority of release was in the form of a spray.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: John W. Gates	OIL CONSERVATION DIVISION
Printed Name: **John W. Gates**	Approved by District Supervisor:
Title: **HSER Lead**	Approval Date: / Expiration Date:
E-mail Address: **John.W.Gates@conocophillips.com**	Conditions of Approval: / Attached ☐
Date: **01/06/12** Phone: **505.391.3158**	

- Attach Additional Sheets If Necessary

IRP- 4341

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 05/01/2023

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD Only

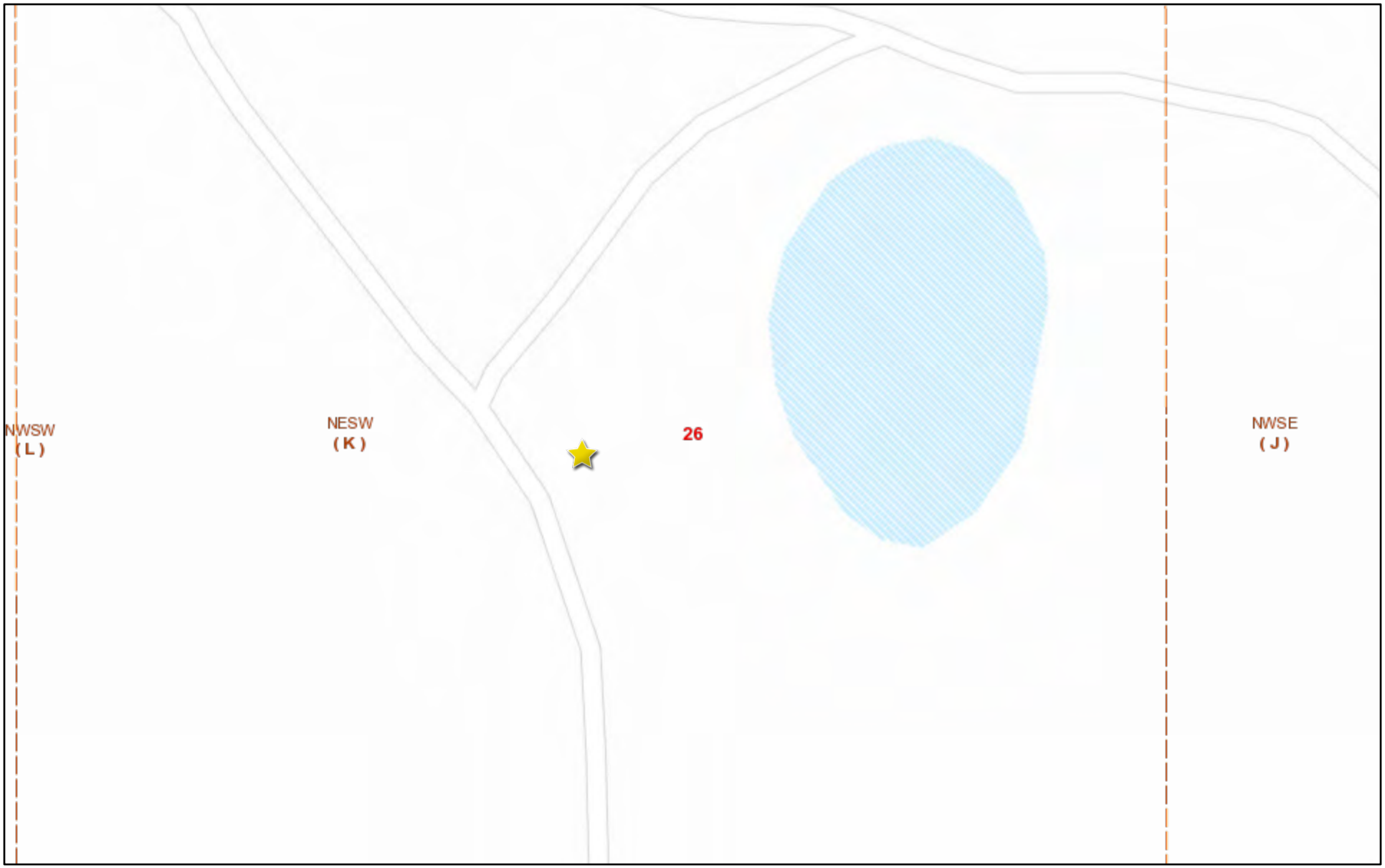
Received by: Jocelyn Harimon Date: 05/01/2023

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: 05/01/2023

APPENDIX B
Site Characterization Data

1RP-4361



2/9/2021, 1:33:38 PM

1:2,257

0 0.01 0.03 0.06 mi

0 0.03 0.05 0.1 km

Override 1

OCD District Offices

PLSS First Division

PLSS Second Division

OSE Water-bodies

PLJV Probable Playas

OSE Streams

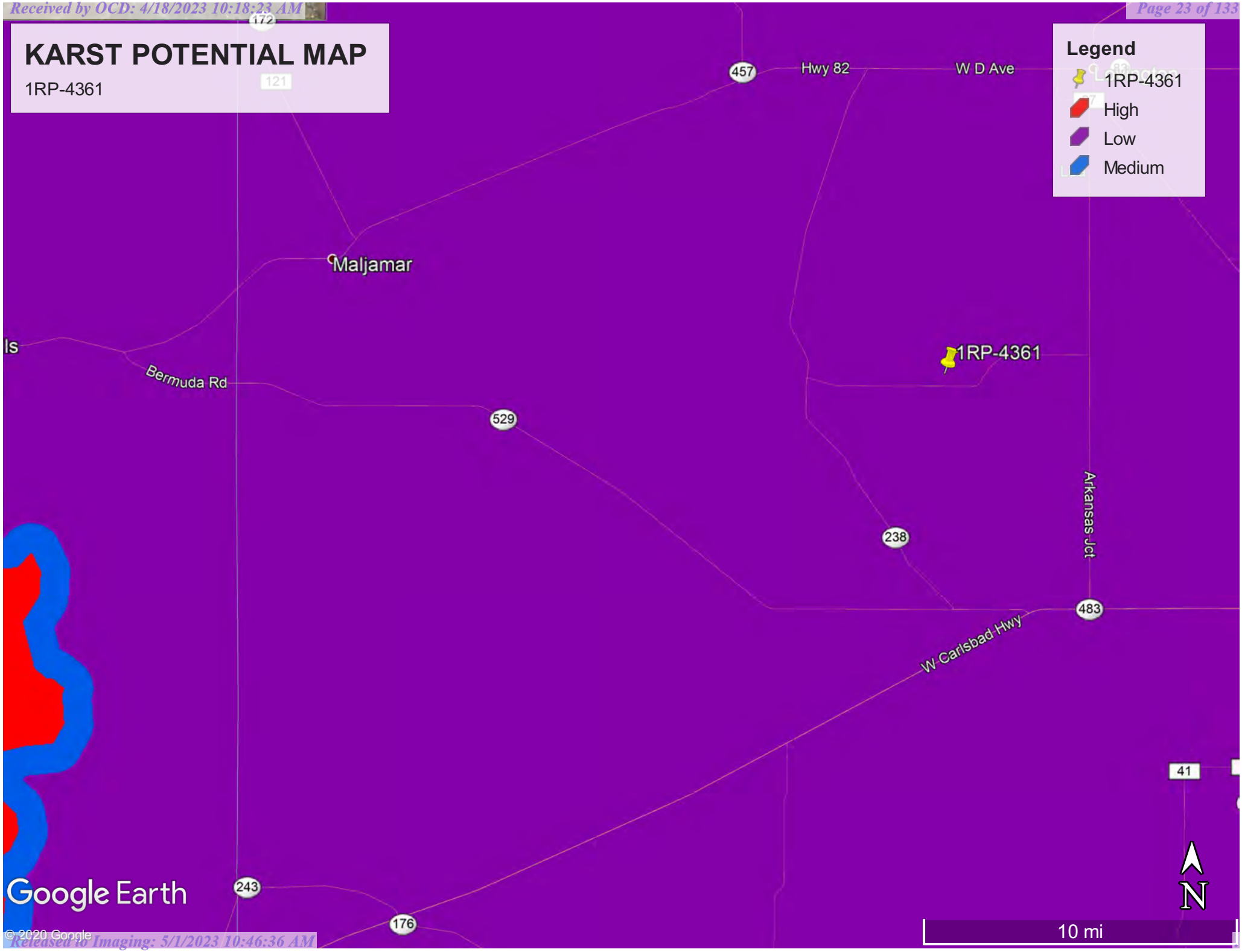
OCD, Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE,

New Mexico Oil Conservation Division

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

KARST POTENTIAL MAP

1RP-4361



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04881		L	LE		1	3	26	17S	35E	646556	3630644*	442	137	50	87
L 04859		L	LE	4	4	4	27	17S	35E	646258	3630135*	904	145	85	60
L 09901		L	LE			4	3	23	17S	35E	646940	3631857*	1204	120		
L 05381		L	LE	3	3	3	23	17S	35E	646436	3631752*	1233	95	45	50
L 04951		L	LE	2	2	2	26	17S	35E	647851	3631560*	1244	137	50	87
L 04632		L	LE		3	2	35	17S	35E	647382	3629443*	1270	130	40	90
L 05207		L	LE				27	17S	35E	645552	3630825*	1456	140	60	80

Average Depth to Water: **55 feet**

Minimum Depth: **40 feet**

Maximum Depth: **85 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 646998.48 **Northing (Y):** 3630653.85 **Radius:** 1600

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

1/11/21 11:41 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX C
Site Remediation Plan
(Diamondback, 2012)

HOBBS OCD

JAN 0 6 2012

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **ConocoPhillips Company**	Contact **John W. Gates**
Address **3300 North A St. Bldg 6, Midland, TX 79705-5406**	Telephone No. **505.391.3158**
Facility Name **EVGSAU 2658-011**	Facility Type **Oil and Gas**

Surface Owner **Giles Lee**	Mineral Owner **State Of New Mexico**	Lease No **300250287500**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	**26**	**17S**	**35E**					**Lea**

Latitude **Longitude**

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **10bbl (10oil, 0water)**	Volume Recovered **(3oil, 0water)**
Source of Release **Well surface casing**	Date and Hour of Occurrence **01/04/12 1530**	Date and Hour of Discovery **01/04/12 1615**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Release was caused by well surface casing failure due to suspected internal/external corrosion . Workover rig was summed and rigged up on well to replace failed casing.

Describe Area Affected and Cleanup Action Taken.*
100' X 140' X .5" area of well pad and pasture land. Vacuum truck was called and 3 bbls of crude oil was recovered. Majority of release was in the form of a spray.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: John W. Gates	OIL CONSERVATION DIVISION
Printed Name: **John W. Gates**	Approved by District Supervisor:
Title: **HSER Lead**	Approval Date: / Expiration Date:
E-mail Address: **John.W.Gates@conocophillips.com**	Conditions of Approval: / Attached ☐
Date: **01/06/12** Phone: **505.391.3158**	

- Attach Additional Sheets If Necessary

IRP- 4341

EVGSAU 2658-011

(Located in Section-26 Township 17S Range 35E)

Site Remediation Plan

Presented to:

ConocoPhillips
HC 60, Box 66
Lovington, NM 88260

< 50'

Prepared By:

Diamondback Disposal Services, Inc.
PO Box 2491
Hobbs, NM 88241

Introduction

This report presents the results of delineation activities at the EVGSAU 2658-011 The site is located in Section 26, Township 17S, Range 35E in Lea County, New Mexico. Impacted areas are owned by New Mexico State Land Department. Diamondback Disposal Services, Inc. (Diamondback) was contacted January 12, 2012 by Mr. Justin Wright, of Conoco Phillips Inc, to perform the delineation and remediation activities at the spill site. The delineation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) rules and regulations. The following sections present: an overview, findings and recommendations of all delineation work performed on site.

Overview

The spill site is located mostly on state lease land consisting of good grass, prairie, or range lands with a little ponding on COPC location. Approximately 10 bbls of crude oil in the form of a spray was lost, with approximately 3 bbls being recovered from the use of a vacuum truck. Approximately 20,000 square feet of pasture land was impacted as well as 600 square feet of caliche pad. The depth to groundwater in the area is estimated to be 55' to 65' below ground surface (BGS) based on the information, reviewed at the New Mexico State Engineer's Office in Roswell, NM. The potential contaminates of concern are mid to high-level concentrations of petroleum-based hydrocarbons that were lost due to well surface casing failure in which a workover rig replaced failed casing..

Findings

On February 15, 2012 Diamondback was dispatched to location to hand auger soil borings on the site to determine vertical depth of impaction. A total of four soil borings were augered to a depth of 18" each. Samples were collected every 6 inches, packaged and sent to Cardinal Laboratory (with COC) for analysis. The samples were tested for TPH, BTEX, and Chlorides (see analytical and attached map).

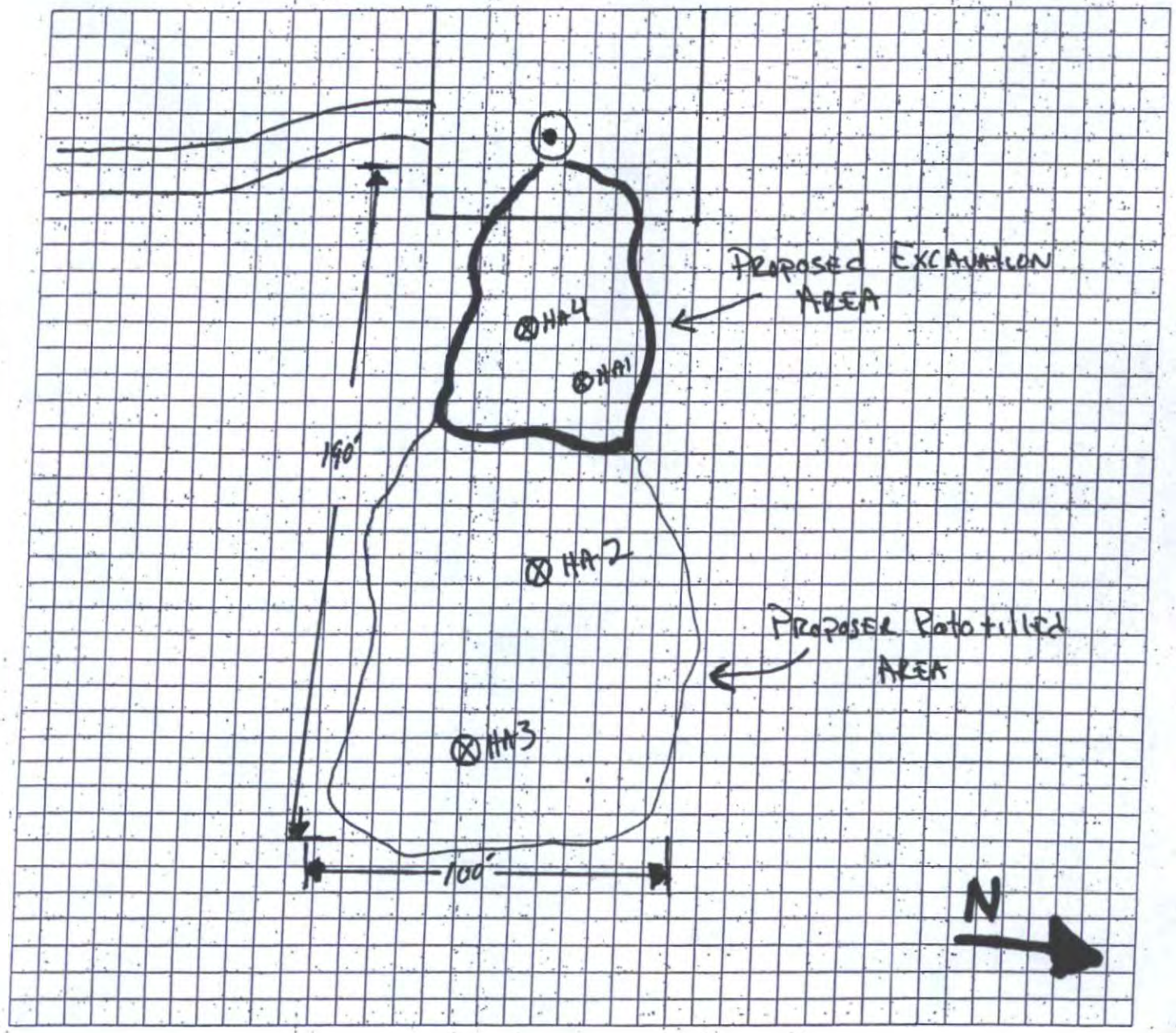
Work Plan

Diamondback Disposal Services proposes to excavate 18 inches below ground surface in the area of HA 1 and HA 4(see map and analytical), generating approximately 300 cubic yards of impacted material, and dispose of material at an NMOCD approved disposal facility. Import topsoil to backfill and crown excavated area to shed water. The areas around HA 2 and HA 3 we plan to till native vegetation into the existing soil and re-seed with state approved seed. Diamondback feels this method will significantly reduce migration of impacted material through the vadose zone therefore leaving the site in a manner that will pose very little if any future environmental threat.

EXCAVATION PLAN

✕ Railroad crossing	=○= Power Line	Bridge	--C-- Cable Line
○ Power Pole	~FL~ Flow Line	Water	Dig Zone
◉ Wellhead	////// Fence Line	..W.... Water line	North Direction

Search Zone Perimeter – White — Temporary Survey Markings – Pink
Electrical – Red — Potable Water – Blue
Drainage/Sewers – Green — Communication – Orange — SWD-Light Blue



CARDINAL Laboratories

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

February 24, 2012

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: EVGSAU TRACT 2658-011

Enclosed are the results of analyses for samples received by the laboratory on 02/20/12 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 1 SURFACE (H200460-01)

BTEX 8021B mg/kg Analyzed By: AP S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/24/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	**19.6**	0.500	02/24/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	**39.0**	0.500	02/24/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	**93.7**	1.50	02/24/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL 166 % 64.4-134

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	02/22/2012	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**2910**	100	02/23/2012	ND	183	91.4	200	8.56	
DRO >C10-C28	**14000**	100	02/23/2012	ND	175	87.6	200	8.15	

Surrogate: 1-Chlorooctane 215 % 55.5-154

Surrogate: 1-Chlorooctadecane 193 % 57.6-158

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 2 SURFACE (H200460-02)

BTEX 8021B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	<0.050	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	<0.050	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL *113 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2012	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/23/2012	ND	183	91.4	200	8.56	
DRO >C10-C28	**102**	10.0	02/23/2012	ND	175	87.6	200	8.15	

Surrogate: 1-Chlorooctane *118 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *122 %* *57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 2 6" BGS (H200460-03)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	<0.050	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	<0.050	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL *110 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2012	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/23/2012	ND	183	91.4	200	8.56	
DRO >C10-C28	**10.2**	10.0	02/23/2012	ND	175	87.6	200	8.15	

Surrogate: 1-Chlorooctane *103 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *108 %* *57.6-158*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 2 12" BGS (H200460-04)

BTEX 8021B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	<0.050	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	<0.050	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL 109 % 64.4-134

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/22/2012	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/23/2012	ND	183	91.4	200	8.56	
DRO >C10-C28	**11.6**	10.0	02/23/2012	ND	175	87.6	200	8.15	

Surrogate: 1-Chlorooctane 113 % 55.5-154

Surrogate: 1-Chlorooctadecane 121 % 57.6-158

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 2 18" BGS (H200460-05)

BTEX 8021B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	<0.050	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	<0.050	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL 110 % 64.4-134

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	02/22/2012	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/23/2012	ND	183	91.4	200	8.56	
DRO >C10-C28	<10.0	10.0	02/23/2012	ND	175	87.6	200	8.15	

Surrogate: 1-Chlorooctane 121 % 55.5-154

Surrogate: 1-Chlorooctadecane 136 % 57.6-158

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 3 SURFACE (H200460-06)

BTEX 8021B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	<0.050	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	<0.050	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL *110 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/23/2012	ND	183	91.4	200	8.56	
DRO >C10-C28	**45.0**	10.0	02/23/2012	ND	175	87.6	200	8.15	

Surrogate: 1-Chlorooctane *109 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *113 %* *57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 3 6" BGS (H200460-07)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	<0.050	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	<0.050	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL *110 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2012	ND	220	110	200	3.77	
DRO >C10-C28	<10.0	10.0	02/22/2012	ND	205	102	200	5.78	

Surrogate: 1-Chlorooctane *79.2 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *78.3 %* *57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 3 12" BGS (H200460-08)

BTEX 8021B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	<0.050	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	<0.050	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL *110 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/23/2012	ND	183	91.4	200	8.56	
DRO >C10-C28	**14.8**	10.0	02/23/2012	ND	175	87.6	200	8.15	

Surrogate: 1-Chlorooctane *116 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *119 %* *57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 3 18" BGS (H200460-09)

BTEX 8021B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	<0.050	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	<0.050	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL 109 % 64.4-134

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/23/2012	ND	183	91.4	200	8.56	
DRO >C10-C28	<10.0	10.0	02/23/2012	ND	175	87.6	200	8.15	

Surrogate: 1-Chlorooctane 120 % 55.5-154

Surrogate: 1-Chlorooctadecane 128 % 57.6-158

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 4 SURFACE (H200460-10)

BTEX 8021B mg/kg **Analyzed By: AP** S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/24/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	**11.9**	0.500	02/24/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	**36.3**	0.500	02/24/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	**68.9**	1.50	02/24/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL *174 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**1560**	50.0	02/22/2012	ND	220	110	200	3.77	
DRO >C10-C28	**3320**	50.0	02/22/2012	ND	205	102	200	5.78	

Surrogate: 1-Chlorooctane *110 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *71.4 %* *57.6-158*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 4 6" BGS (H200460-11)

BTEX 8021B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	**0.326**	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	**1.28**	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	**2.14**	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PII 133 % 64.4-134

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**151**	50.0	02/22/2012	ND	220	110	200	3.77	
DRO >C10-C28	**231**	50.0	02/22/2012	ND	205	102	200	5.78	

Surrogate: 1-Chlorooctane 85.0 % 55.5-154

Surrogate: 1-Chlorooctadecane 79.0 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 4 12" BGS (H200460-12)

BTEX 8021B mg/kg **Analyzed By: AP** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	**0.217**	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	**1.42**	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	**3.00**	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL 154 % 64.4-134

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	02/22/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**127**	50.0	02/22/2012	ND	220	110	200	3.77	
DRO >C10-C28	**402**	50.0	02/22/2012	ND	205	102	200	5.78	

Surrogate: 1-Chlorooctane 81.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 75.7 % 57.6-158

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	02/20/2012	Sampling Date:	02/15/2012
Reported:	02/24/2012	Sampling Type:	Soil
Project Name:	EVGSAU TRACT 2658-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

Sample ID: HA 4 18" BGS (H200460-13)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2012	ND	1.89	94.7	2.00	3.34	
Toluene*	<0.050	0.050	02/23/2012	ND	2.06	103	2.00	3.91	
Ethylbenzene*	<0.050	0.050	02/23/2012	ND	2.09	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	02/23/2012	ND	6.53	109	6.00	3.69	

Surrogate: 4-Bromofluorobenzene (PIL 115 % 64.4-134

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	02/22/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**56.9**	50.0	02/22/2012	ND	220	110	200	3.77	
DRO >C10-C28	**190**	50.0	02/22/2012	ND	205	102	200	5.78	

Surrogate: 1-Chlorooctane 77.5 % 55.5-154

Surrogate: 1-Chlorooctadecane 74.0 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

1 of 2

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Diamondback Disposal Srv. Inc.	BILL TO	
Project Manager:	Justin Roberts	P.O. #:	
Address:	P.O. Box 2491	Company:	
City:	Hobbs State: NM Zip: 88241	Attn:	
Phone #:	575-392-5996 Fax #: 575-392-6376	Address:	
Project #:	N/A Project Owner: COPC	City:	
Project Name:	ENGSAN Tract 2658-011	State: Zip:	
Project Location:	Buckeye	Phone #:	
Sampler Name:	Justin Roberts	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH	BTEX	CL
H200460																	
1	HA1 Surface	G	1			X					X		2-15-12	12:30	X	X	X
2	HA2 Surface													12:35			
3	HA2 6" BGS													12:40			
4	HA2 12" BGS													12:45			
5	HA2 18" BGS													12:49			
6	HA3 Surface													1:00			
7	HA3 6" BGS													1:05			
8	HA3 12" BGS													1:11			
9	HA3 18" BGS													1:15			
10	HA4 Surface													1:10			

Relinquished By:	Date: 2-20-12	Received By:	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: 4:00	Jodi Henson	Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5°C	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

2 of 2

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	DIAMONDBACK DISPOSAL SERV. INC
Project Manager:	Justin Rebeets
Address:	P.O. Box 2491
City:	Hobbs State: NM Zip: 88241
Phone #:	575-392-9996 Fax #: 575-392-9378
Project #:	N/A Project Owner: COPC
Project Name:	EVGSAU Tract 2459-011
Project Location:	Buckeye
Sampler Name:	Justin Rebeets

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE	ICE / COOL	OTHER :	SAMPLING: DATE	TIME
H200460														
11	HA4 6"BGS	G	2			X							2-15-12	1:14
12	HA4 12"BGS	G	2			X							2-15-12	1:16
13	HA4 18"BGS	G	2			X							2-15-12	1:25

Relinquished By:	Date: 2-20-12	Received By:	
Relinquished By:	Time: 4:00	Received By: Jodi Henson	
Delivered By: (Circle One)	Date:	Time:	
Sampler - UPS - Bus - Other:	5°C #26	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **ConocoPhillips Company**	Contact **John W. Gates**
Address **3300 North A St. Bldg 6, Midland, TX 79705-5406**	Telephone No. **505.391.3158**
Facility Name **EVGSAU 2658-011**	Facility Type **Oil and Gas**

Surface Owner **Giles Lee**	Mineral Owner **State Of New Mexico**	Lease No **300250287500**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	**26**	**17S**	**35E**					**Lea**

Latitude **Longitude**

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **10bbl (10oil, 0water)**	Volume Recovered **(3oil, 0water)**
Source of Release **Well surface casing**	Date and Hour of Occurrence **01/04/12 1530**	Date and Hour of Discovery **01/04/12 1615**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Release was caused by well surface casing failure due to suspected internal/external corrosion . Workover rig was summed and rigged up on well to replace failed casing.

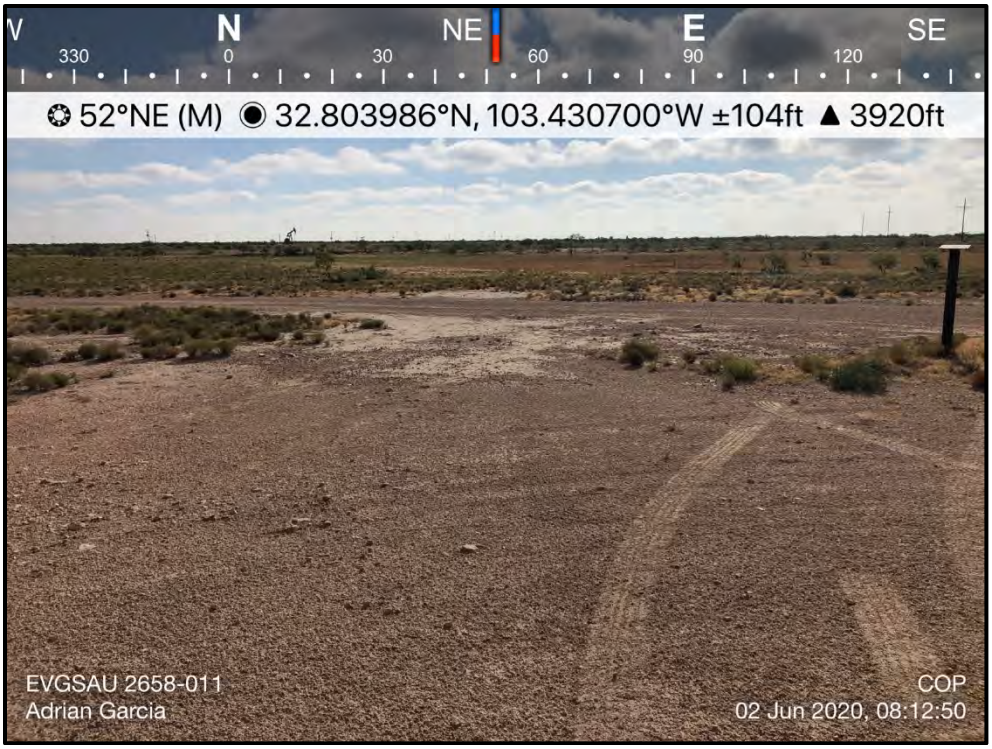
Describe Area Affected and Cleanup Action Taken.*
100' X 140' X .5" area of well pad and pasture land. Vacuum truck was called and 3 bbls of crude oil was recovered. Majority of release was in the form of a spray.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

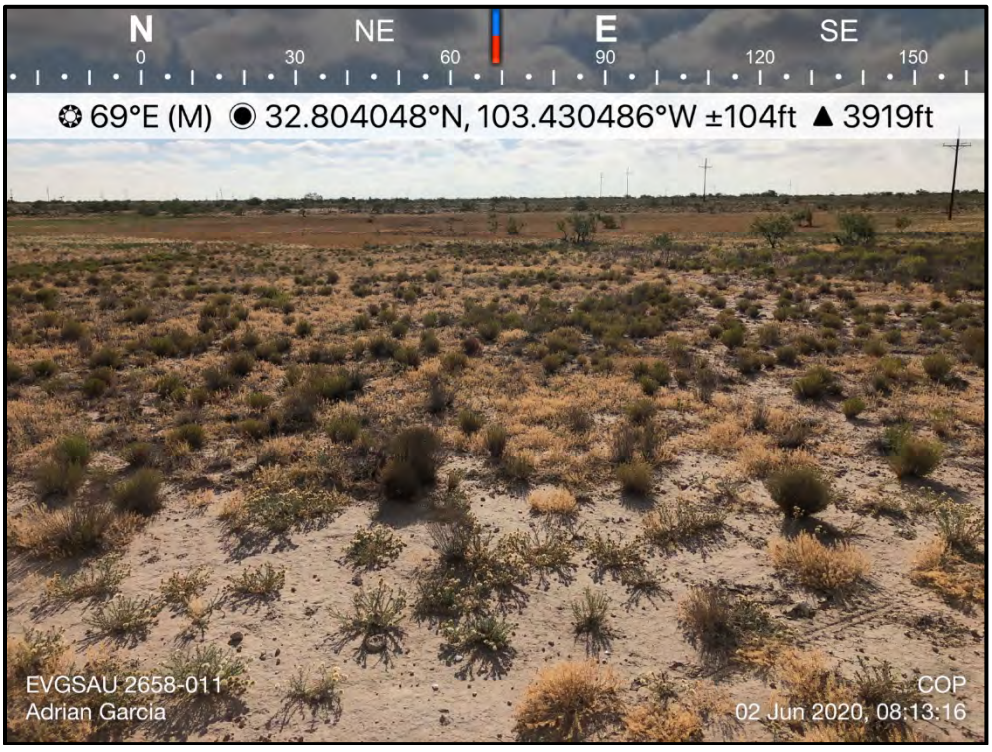
Signature:	OIL CONSERVATION DIVISION	
Printed Name: **John W. Gates**	Approved by District Supervisor:	
Title: **HSER Lead**	Approval Date:	Expiration Date:
E-mail Address: **John.W.Gates@conocophillips.com**	Conditions of Approval:	Attached ☐
Date: **01/06/12** Phone: **505.391.3158**		

- Attach Additional Sheets If Necessary

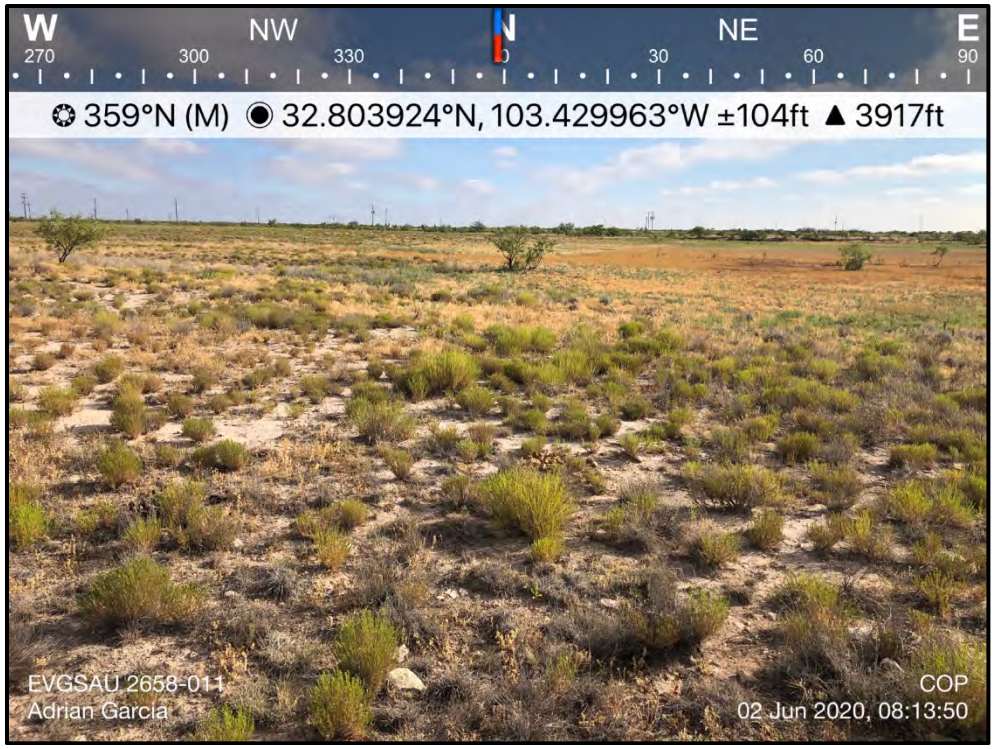
APPENDIX D
Photographic Documentation



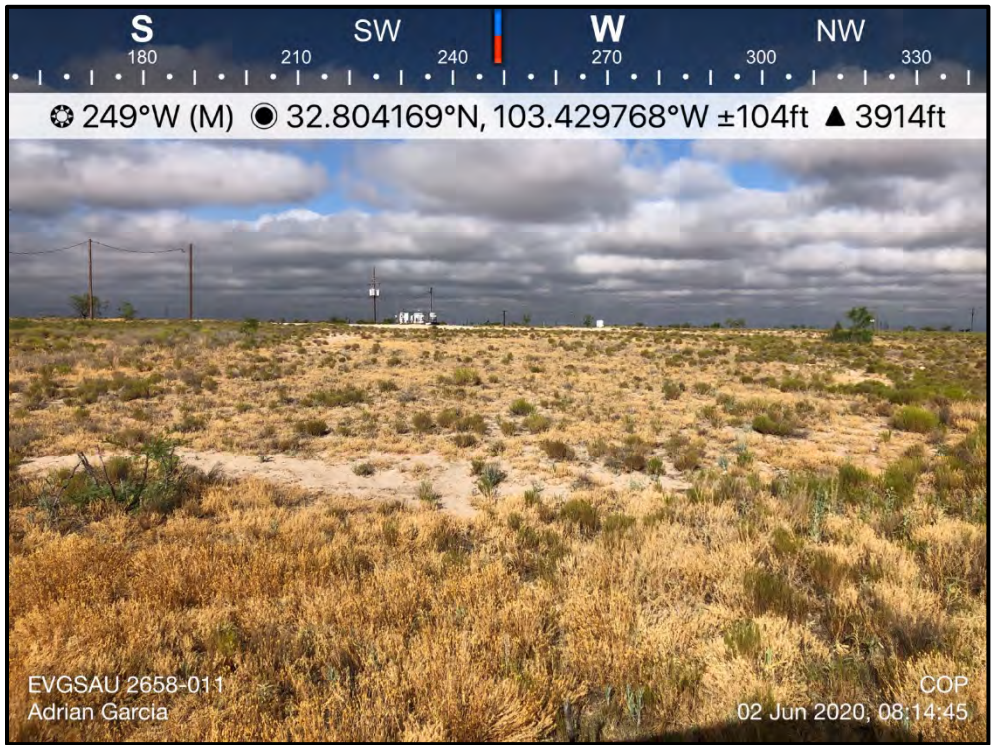
TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northeast of wellhead release.	1
	SITE NAME	EVGSAU 2658-011 Wellhead Release	6/2/2020



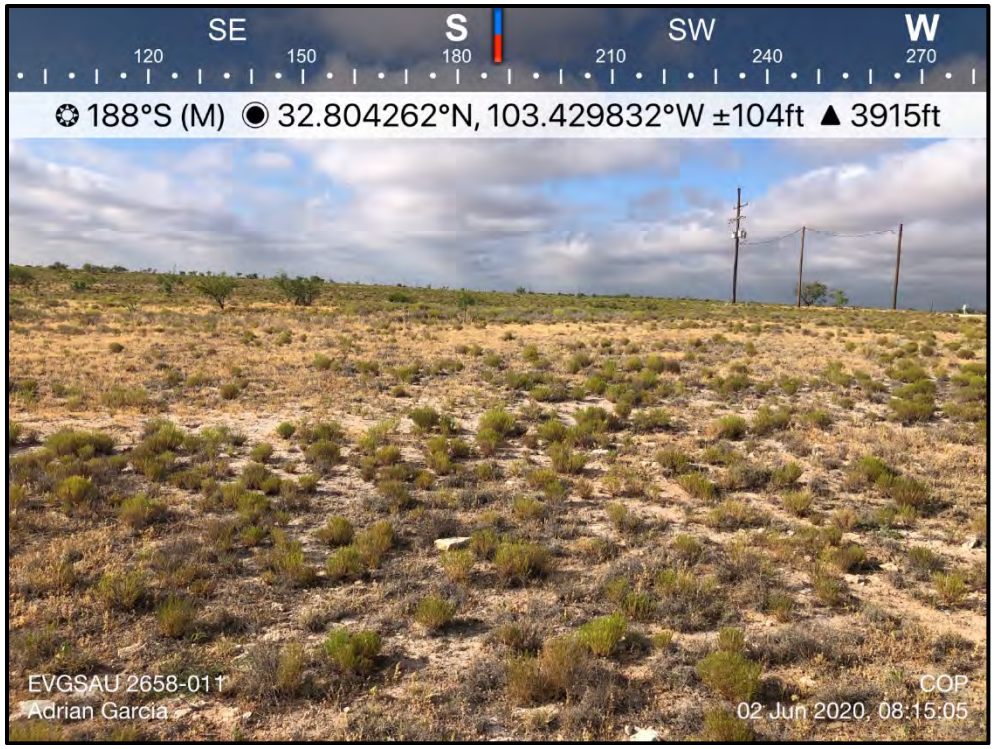
TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northeast of wellhead release.	2
	SITE NAME	EVGSAU 2658-011 Wellhead Release	6/2/2020



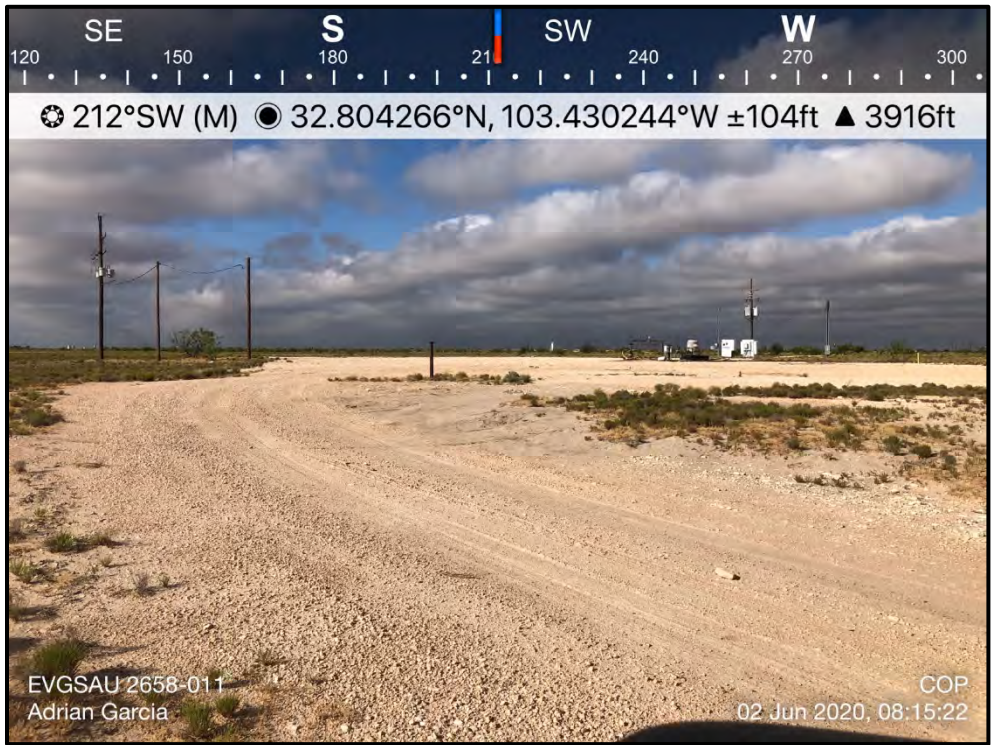
TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing north of wellhead release.	3
	SITE NAME	EVGSAU 2658-011 Wellhead Release	6/2/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing southwest of wellhead release.	4
	SITE NAME	EVGSAU 2658-011 Wellhead Release	6/2/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing south of wellhead release.	5
	SITE NAME	EVGSAU 2658-011 Wellhead Release	6/2/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing southwest towards wellhead release.	6
	SITE NAME	EVGSAU 2658-011 Wellhead Release	6/2/2020

APPENDIX E
Laboratory Analytical Data

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

January 06, 2021

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1299136
Samples Received:	12/19/2020
Project Number:	212C-MD-02334 TASK26
Description:	EVGSAU 2658-011 Wellhead Release (1RP-4361)

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

TABLE OF CONTENTS

BH-1 (0-1') L1299136-01 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 10:00 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598919	1	12/31/20 01:14	12/31/20 01:34	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 17:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	25	12/23/20 19:15	12/28/20 04:40	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	1	12/23/20 19:15	12/24/20 13:04	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598855	10	12/30/20 07:51	12/31/20 17:13	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598855	5	12/30/20 07:51	12/30/20 22:27	DMG	Mt. Juliet, TN

BH-1 (2-3') L1299136-02 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 10:10 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598919	1	12/31/20 01:14	12/31/20 01:34	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 18:16	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	45.8	12/23/20 19:15	12/28/20 05:02	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	1.83	12/23/20 19:15	12/24/20 13:23	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598855	1	12/30/20 07:51	12/30/20 21:52	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598855	5	12/30/20 07:51	12/31/20 16:59	CAG	Mt. Juliet, TN

BH-1 (4-5') L1299136-03 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 10:20 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598919	1	12/31/20 01:14	12/31/20 01:34	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 18:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	25	12/23/20 19:15	12/28/20 05:25	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	1	12/23/20 19:15	12/24/20 13:42	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598855	1	12/30/20 07:51	12/30/20 21:13	DMG	Mt. Juliet, TN

BH-1 (6-7') L1299136-04 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 10:30 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598919	1	12/31/20 01:14	12/31/20 01:34	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 18:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	28.5	12/23/20 19:15	12/28/20 05:47	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	1.14	12/23/20 19:15	12/24/20 14:01	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598855	1	12/30/20 07:51	12/30/20 21:26	DMG	Mt. Juliet, TN

BH-1 (9-10') L1299136-05 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 10:40 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598919	1	12/31/20 01:14	12/31/20 01:34	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 18:45	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	31.5	12/23/20 19:15	12/28/20 06:10	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	1.26	12/23/20 19:15	12/24/20 14:20	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598855	1	12/30/20 07:51	12/30/20 20:46	DMG	Mt. Juliet, TN

BH-1 (14-15') L1299136-06 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 11:00 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 18:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	25.3	12/23/20 19:15	12/28/20 06:32	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	1.01	12/23/20 19:15	12/24/20 14:39	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598855	1	12/30/20 07:51	12/30/20 20:59	DMG	Mt. Juliet, TN

BH-2 (0-1') L1299136-07 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 11:30 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 19:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	55.3	12/23/20 19:15	12/28/20 06:54	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	2.21	12/23/20 19:15	12/24/20 14:58	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598855	1	12/30/20 07:51	12/30/20 21:39	DMG	Mt. Juliet, TN

BH-2 (2-3') L1299136-08 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 11:40 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 19:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	37.8	12/23/20 19:15	12/28/20 07:18	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	1.51	12/23/20 19:15	12/24/20 15:17	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 11:59	CAG	Mt. Juliet, TN

BH-2 (4-5') L1299136-09 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 11:50 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 19:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	25	12/23/20 19:15	12/28/20 07:40	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1	12/23/20 19:15	12/24/20 19:52	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 04:54	DMG	Mt. Juliet, TN

BH-2 (6-7') L1299136-10 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 12:00 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 19:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598456	32	12/23/20 19:15	12/29/20 23:20	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.28	12/23/20 19:15	12/24/20 20:11	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 01:09	DMG	Mt. Juliet, TN

BH-2 (9-10') L1299136-11 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 12:10 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 20:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598322	33.3	12/23/20 19:15	12/29/20 11:07	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.33	12/23/20 19:15	12/24/20 20:30	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 01:22	DMG	Mt. Juliet, TN

BH-2 (14-15') L1299136-12 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 12:30 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	5	12/29/20 16:25	12/29/20 20:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598322	37	12/23/20 19:15	12/29/20 11:28	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.48	12/23/20 19:15	12/24/20 20:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 01:35	DMG	Mt. Juliet, TN

BH-2 (19-20') L1299136-13 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 12:50 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 20:41	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598322	47.8	12/23/20 19:15	12/29/20 11:49	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.91	12/23/20 19:15	12/24/20 21:08	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 01:49	DMG	Mt. Juliet, TN

BH-2 (24-25') L1299136-14 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 13:10 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 20:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598322	25	12/23/20 19:15	12/29/20 12:51	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1	12/23/20 19:15	12/24/20 21:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 02:02	DMG	Mt. Juliet, TN

BH-2 (29-30') L1299136-15 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 13:30 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598920	1	12/31/20 00:52	12/31/20 01:05	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 21:00	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598322	25.8	12/23/20 19:15	12/29/20 13:12	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.03	12/23/20 19:15	12/24/20 21:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 02:15	DMG	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

BH-3 (0-1') L1299136-16 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 14:00 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 21:29	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598323	26.5	12/23/20 19:15	12/29/20 11:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.06	12/23/20 19:15	12/24/20 22:05	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 12:12	CAG	Mt. Juliet, TN

BH-3 (2-3') L1299136-17 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 14:10 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	5	12/29/20 16:25	12/29/20 21:38	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598323	25.5	12/23/20 19:15	12/29/20 12:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.02	12/23/20 19:15	12/24/20 22:24	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 05:07	DMG	Mt. Juliet, TN

BH-3 (4-5') L1299136-18 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 14:20 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	5	12/29/20 16:25	12/29/20 21:48	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598323	27.3	12/23/20 19:15	12/29/20 12:39	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.09	12/23/20 19:15	12/24/20 22:43	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 04:14	DMG	Mt. Juliet, TN

BH-3 (6-7') L1299136-19 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 14:30 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 21:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598323	25	12/23/20 19:15	12/29/20 13:02	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1	12/23/20 19:15	12/24/20 23:02	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 02:29	DMG	Mt. Juliet, TN

BH-3 (9-10') L1299136-20 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 14:40 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598244	1	12/29/20 16:25	12/29/20 22:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598323	30	12/23/20 19:15	12/29/20 13:24	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.2	12/23/20 19:15	12/24/20 23:21	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 02:42	DMG	Mt. Juliet, TN

BH-3 (14-15') L1299136-21 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 14:50 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	5	12/29/20 17:56	12/29/20 23:04	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598323	25	12/23/20 19:15	12/29/20 13:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1	12/23/20 19:15	12/24/20 23:40	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 02:55	DMG	Mt. Juliet, TN

BH-3 (19-20') L1299136-22 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 15:00 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	5	12/29/20 17:56	12/29/20 23:23	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1598323	25.8	12/23/20 19:15	12/29/20 14:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.03	12/23/20 19:15	12/24/20 23:59	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 03:08	DMG	Mt. Juliet, TN

BH-3 (24-25') L1299136-23 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 15:20 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	1	12/29/20 17:56	12/29/20 23:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599146	42.8	12/23/20 19:15	12/31/20 06:24	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.71	12/23/20 19:15	12/25/20 00:18	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 03:21	DMG	Mt. Juliet, TN

BH-3 (29-30') L1299136-24 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 15:40 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	1	12/29/20 17:56	12/29/20 23:42	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599146	25	12/23/20 19:15	12/31/20 06:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1	12/23/20 19:15	12/25/20 00:38	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 03:35	DMG	Mt. Juliet, TN

BH-4 (0-1') L1299136-25 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 16:00 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598921	1	12/31/20 00:32	12/31/20 00:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	1	12/29/20 17:56	12/29/20 23:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599146	25	12/23/20 19:15	12/31/20 07:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1	12/23/20 19:15	12/25/20 00:57	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 04:01	DMG	Mt. Juliet, TN

BH-4 (3-4') L1299136-26 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 16:10 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598922	1	12/31/20 00:20	12/31/20 00:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	1	12/29/20 17:56	12/30/20 00:01	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599146	46.5	12/23/20 19:15	12/31/20 07:32	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.86	12/23/20 19:15	12/25/20 01:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 03:48	DMG	Mt. Juliet, TN

BH-5 (0-1') L1299136-27 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 16:20 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598922	1	12/31/20 00:20	12/31/20 00:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	1	12/29/20 17:56	12/30/20 00:10	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599146	27.8	12/23/20 19:15	12/31/20 07:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	1.11	12/23/20 19:15	12/25/20 01:35	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599168	1	12/30/20 17:23	12/31/20 17:26	CAG	Mt. Juliet, TN

BH-5 (3-4') L1299136-28 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 16:30 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598922	1	12/31/20 00:20	12/31/20 00:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	1	12/29/20 17:56	12/30/20 00:39	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599146	72.3	12/23/20 19:15	12/31/20 08:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597123	2.89	12/23/20 19:15	12/25/20 01:54	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599169	1	12/30/20 21:34	12/31/20 06:45	CAG	Mt. Juliet, TN

BH-6 (0-1') L1299136-29 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 16:40 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598922	1	12/31/20 00:20	12/31/20 00:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	1	12/29/20 17:56	12/30/20 00:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599146	33.5	12/23/20 19:15	12/31/20 08:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597130	1.34	12/23/20 19:15	12/24/20 19:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599169	1	12/30/20 21:34	12/31/20 06:58	CAG	Mt. Juliet, TN

BH-6 (3-4') L1299136-30 Solid

Collected by: Joe Tyler | Collected date/time: 12/17/20 16:50 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598922	1	12/31/20 00:20	12/31/20 00:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	1	12/29/20 17:56	12/30/20 00:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599226	29.5	12/23/20 19:15	12/30/20 18:50	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597130	1.18	12/23/20 19:15	12/24/20 20:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599169	1	12/30/20 21:34	12/31/20 05:26	CAG	Mt. Juliet, TN

BH-7 (0-1') L1299136-31 Solid

Collected by: Joe Tyler
Collected date/time: 12/17/20 17:00
Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598922	1	12/31/20 00:20	12/31/20 00:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	5	12/29/20 17:56	12/30/20 01:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599226	58.8	12/23/20 19:15	12/30/20 19:12	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597130	2.35	12/23/20 19:15	12/24/20 20:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599169	2	12/30/20 21:34	12/31/20 10:40	WCR	Mt. Juliet, TN

BH-7 (3-4') L1299136-32 Solid

Collected by: Joe Tyler
Collected date/time: 12/17/20 17:10
Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1598922	1	12/31/20 00:20	12/31/20 00:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1598250	1	12/29/20 17:56	12/30/20 01:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1599226	37	12/23/20 19:15	12/30/20 19:34	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597130	1.48	12/23/20 19:15	12/24/20 20:40	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1599169	1	12/30/20 21:34	12/31/20 09:47	WCR	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	12/31/2020 01:34	WG1598919

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	213		9.64	21.0	1	12/29/2020 17:58	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	2.01	J	0.597	2.75	25	12/28/2020 04:40	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*		*12/28/2020 04:40*	WG1597615

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000514	0.00110	1	12/24/2020 13:04	WG1597115
Toluene	0.00388	J	0.00143	0.00550	1	12/24/2020 13:04	WG1597115
Ethylbenzene	0.0234		0.000811	0.00275	1	12/24/2020 13:04	WG1597115
Total Xylenes	0.0911		0.000968	0.00715	1	12/24/2020 13:04	WG1597115
(S) Toluene-d8	*95.8*			*75.0-131*		*12/24/2020 13:04*	WG1597115
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*12/24/2020 13:04*	WG1597115
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*12/24/2020 13:04*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	674	V	8.43	21.0	5	12/30/2020 22:27	WG1598855
C28-C40 Oil Range	1020		2.87	41.9	10	12/31/2020 17:13	WG1598855
(S) o-Terphenyl	*83.3*			*18.0-148*		*12/31/2020 17:13*	WG1598855
(S) o-Terphenyl	*83.8*			*18.0-148*		*12/30/2020 22:27*	WG1598855

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	12/31/2020 01:34	WG1598919

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	471		9.86	21.4	1	12/29/2020 18:16	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		1.10	5.09	45.8	12/28/2020 05:02	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*77.0-120*		*12/28/2020 05:02*	WG1597615

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000950	0.00203	1.83	12/24/2020 13:23	WG1597115
Toluene	U		0.00264	0.0102	1.83	12/24/2020 13:23	WG1597115
Ethylbenzene	0.00300	J	0.00150	0.00509	1.83	12/24/2020 13:23	WG1597115
Total Xylenes	0.00823	J	0.00179	0.0132	1.83	12/24/2020 13:23	WG1597115
(S) Toluene-d8	*98.3*			*75.0-131*		*12/24/2020 13:23*	WG1597115
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*12/24/2020 13:23*	WG1597115
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*12/24/2020 13:23*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	120		1.73	4.29	1	12/30/2020 21:52	WG1598855
C28-C40 Oil Range	212		1.47	21.4	5	12/31/2020 16:59	WG1598855
(S) o-Terphenyl	*70.5*			*18.0-148*		*12/31/2020 16:59*	WG1598855
(S) o-Terphenyl	*62.8*			*18.0-148*		*12/30/2020 21:52*	WG1598855

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	12/31/2020 01:34	WG1598919

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	193		9.62	20.9	1	12/29/2020 18:26	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.596	2.74	25	12/28/2020 05:25	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-120*		*12/28/2020 05:25*	WG1597615

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000512	0.00110	1	12/24/2020 13:42	WG1597115
Toluene	U		0.00143	0.00549	1	12/24/2020 13:42	WG1597115
Ethylbenzene	U		0.000809	0.00274	1	12/24/2020 13:42	WG1597115
Total Xylenes	U		0.000965	0.00713	1	12/24/2020 13:42	WG1597115
(S) Toluene-d8	*98.1*			*75.0-131*		*12/24/2020 13:42*	WG1597115
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*12/24/2020 13:42*	WG1597115
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*12/24/2020 13:42*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	17.3		1.68	4.18	1	12/30/2020 21:13	WG1598855
C28-C40 Oil Range	27.7		0.286	4.18	1	12/30/2020 21:13	WG1598855
(S) o-Terphenyl	*71.7*			*18.0-148*		*12/30/2020 21:13*	WG1598855

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	12/31/2020 01:34	WG1598919

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	134		9.89	21.5	1	12/29/2020 18:35	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.705	3.25	28.5	12/28/2020 05:47	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*77.0-120*		*12/28/2020 05:47*	WG1597615

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000607	0.00130	1.14	12/24/2020 14:01	WG1597115
Toluene	U		0.00169	0.00651	1.14	12/24/2020 14:01	WG1597115
Ethylbenzene	U		0.000959	0.00325	1.14	12/24/2020 14:01	WG1597115
Total Xylenes	U		0.00114	0.00846	1.14	12/24/2020 14:01	WG1597115
(S) Toluene-d8	*98.5*			*75.0-131*		*12/24/2020 14:01*	WG1597115
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*12/24/2020 14:01*	WG1597115
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*12/24/2020 14:01*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	22.3		1.73	4.30	1	12/30/2020 21:26	WG1598855
C28-C40 Oil Range	28.4		0.295	4.30	1	12/30/2020 21:26	WG1598855
(S) o-Terphenyl	*73.6*			*18.0-148*		*12/30/2020 21:26*	WG1598855

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.8		1	12/31/2020 01:34	WG1598919

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	119		9.80	21.3	1	12/29/2020 18:45	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.764	3.52	31.5	12/28/2020 06:10	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*12/28/2020 06:10*	WG1597615

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000657	0.00141	1.26	12/24/2020 14:20	WG1597115
Toluene	U		0.00183	0.00704	1.26	12/24/2020 14:20	WG1597115
Ethylbenzene	U		0.00104	0.00352	1.26	12/24/2020 14:20	WG1597115
Total Xylenes	U		0.00124	0.00915	1.26	12/24/2020 14:20	WG1597115
(S) Toluene-d8	*99.1*			*75.0-131*		*12/24/2020 14:20*	WG1597115
(S) 4-Bromofluorobenzene	*94.4*			*67.0-138*		*12/24/2020 14:20*	WG1597115
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*12/24/2020 14:20*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.27	J	1.72	4.26	1	12/30/2020 20:46	WG1598855
C28-C40 Oil Range	5.63		0.292	4.26	1	12/30/2020 20:46	WG1598855
(S) o-Terphenyl	*79.2*			*18.0-148*		*12/30/2020 20:46*	WG1598855

BH-1 (14-15')
Collected date/time: 12/17/20 11:00

SAMPLE RESULTS - 06

L1299136

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	378		9.48	20.6	1	12/29/2020 18:54	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.582	2.68	25.3	12/28/2020 06:32	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*77.0-120*		*12/28/2020 06:32*	WG1597615

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000501	0.00107	1.01	12/24/2020 14:39	WG1597115
Toluene	U		0.00139	0.00536	1.01	12/24/2020 14:39	WG1597115
Ethylbenzene	U		0.000789	0.00268	1.01	12/24/2020 14:39	WG1597115
Total Xylenes	U		0.000943	0.00696	1.01	12/24/2020 14:39	WG1597115
(S) Toluene-d8	*99.6*			*75.0-131*		*12/24/2020 14:39*	WG1597115
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*12/24/2020 14:39*	WG1597115
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*12/24/2020 14:39*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	11.4		1.66	4.12	1	12/30/2020 20:59	WG1598855
C28-C40 Oil Range	13.9		0.282	4.12	1	12/30/2020 20:59	WG1598855
(S) o-Terphenyl	*78.4*			*18.0-148*		*12/30/2020 20:59*	WG1598855

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	48.3		9.47	20.6	1	12/29/2020 19:06	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		1.25	5.77	55.3	12/28/2020 06:54	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*77.0-120*		*12/28/2020 06:54*	WG1597615

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.00507		0.00107	0.00231	2.21	12/24/2020 14:58	WG1597115
Toluene	0.0208		0.00299	0.0116	2.21	12/24/2020 14:58	WG1597115
Ethylbenzene	0.00461	J	0.00170	0.00577	2.21	12/24/2020 14:58	WG1597115
Total Xylenes	0.00461	J	0.00202	0.0150	2.21	12/24/2020 14:58	WG1597115
(S) Toluene-d8	*99.2*			*75.0-131*		*12/24/2020 14:58*	WG1597115
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*12/24/2020 14:58*	WG1597115
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*12/24/2020 14:58*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.05		1.66	4.12	1	12/30/2020 21:39	WG1598855
C28-C40 Oil Range	40.8		0.282	4.12	1	12/30/2020 21:39	WG1598855
(S) o-Terphenyl	*65.7*			*18.0-148*		*12/30/2020 21:39*	WG1598855

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.6		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	107		9.52	20.7	1	12/29/2020 19:34	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.868	4.00	37.8	12/28/2020 07:18	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*77.0-120*		*12/28/2020 07:18*	WG1597615

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000746	0.00160	1.51	12/24/2020 15:17	WG1597115
Toluene	U		0.00207	0.00799	1.51	12/24/2020 15:17	WG1597115
Ethylbenzene	U		0.00117	0.00400	1.51	12/24/2020 15:17	WG1597115
Total Xylenes	0.00144	J	0.00141	0.0104	1.51	12/24/2020 15:17	WG1597115
(S) Toluene-d8	*97.4*			*75.0-131*		*12/24/2020 15:17*	WG1597115
(S) 4-Bromofluorobenzene	*99.7*			*67.0-138*		*12/24/2020 15:17*	WG1597115
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*12/24/2020 15:17*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.39	J	1.67	4.14	1	12/31/2020 11:59	WG1599168
C28-C40 Oil Range	16.7		0.284	4.14	1	12/31/2020 11:59	WG1599168
(S) o-Terphenyl	*81.1*			*18.0-148*		*12/31/2020 11:59*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	142		9.54	20.7	1	12/29/2020 19:44	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.585	2.69	25	12/28/2020 07:40	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*12/28/2020 07:40*	WG1597615

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000503	0.00108	1	12/24/2020 19:52	WG1597123
Toluene	U		0.00140	0.00538	1	12/24/2020 19:52	WG1597123
Ethylbenzene	U		0.000794	0.00269	1	12/24/2020 19:52	WG1597123
Total Xylenes	U		0.000948	0.00700	1	12/24/2020 19:52	WG1597123
(S) Toluene-d8	*75.8*			*75.0-131*		*12/24/2020 19:52*	WG1597123
(S) 4-Bromofluorobenzene	*70.6*			*67.0-138*		*12/24/2020 19:52*	WG1597123
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*12/24/2020 19:52*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.02	J	1.67	4.15	1	12/31/2020 04:54	WG1599168
C28-C40 Oil Range	4.75		0.284	4.15	1	12/31/2020 04:54	WG1599168
(S) o-Terphenyl	*80.4*			*18.0-148*		*12/31/2020 04:54*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	88.8		9.78	21.3	1	12/29/2020 19:53	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.772	3.56	32	12/29/2020 23:20	WG1598456
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-120*		*12/29/2020 23:20*	WG1598456

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000666	0.00142	1.28	12/24/2020 20:11	WG1597123
Toluene	U		0.00185	0.00712	1.28	12/24/2020 20:11	WG1597123
Ethylbenzene	U		0.00105	0.00356	1.28	12/24/2020 20:11	WG1597123
Total Xylenes	U		0.00126	0.00926	1.28	12/24/2020 20:11	WG1597123
(S) Toluene-d8	*56.0*	J2		*75.0-131*		*12/24/2020 20:11*	WG1597123
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*12/24/2020 20:11*	WG1597123
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*		*12/24/2020 20:11*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.71	4.25	1	12/31/2020 01:09	WG1599168
C28-C40 Oil Range	0.653	J	0.291	4.25	1	12/31/2020 01:09	WG1599168
(S) o-Terphenyl	*74.9*			*18.0-148*		*12/31/2020 01:09*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.6		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	220		10.4	22.6	1	12/29/2020 20:22	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.887	4.08	33.3	12/29/2020 11:07	WG1598322
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*12/29/2020 11:07*	WG1598322

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000762	0.00163	1.33	12/24/2020 20:30	WG1597123
Toluene	U		0.00212	0.00816	1.33	12/24/2020 20:30	WG1597123
Ethylbenzene	U		0.00120	0.00408	1.33	12/24/2020 20:30	WG1597123
Total Xylenes	U		0.00143	0.0106	1.33	12/24/2020 20:30	WG1597123
(S) Toluene-d8	*98.4*			*75.0-131*		*12/24/2020 20:30*	WG1597123
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*12/24/2020 20:30*	WG1597123
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*12/24/2020 20:30*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.82	4.52	1	12/31/2020 01:22	WG1599168
C28-C40 Oil Range	0.811	J	0.309	4.52	1	12/31/2020 01:22	WG1599168
(S) o-Terphenyl	*81.1*			*18.0-148*		*12/31/2020 01:22*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1080		58.5	127	5	12/29/2020 20:31	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		1.17	5.38	37	12/29/2020 11:28	WG1598322
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/29/2020 11:28*	WG1598322

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00101	0.00215	1.48	12/24/2020 20:49	WG1597123
Toluene	U		0.00279	0.0108	1.48	12/24/2020 20:49	WG1597123
Ethylbenzene	U		0.00159	0.00538	1.48	12/24/2020 20:49	WG1597123
Total Xylenes	U		0.00189	0.0140	1.48	12/24/2020 20:49	WG1597123
(S) Toluene-d8	*108*			*75.0-131*		*12/24/2020 20:49*	WG1597123
(S) 4-Bromofluorobenzene	*62.3*	J2		*67.0-138*		*12/24/2020 20:49*	WG1597123
(S) 1,2-Dichloroethane-d4	*85.9*			*70.0-130*		*12/24/2020 20:49*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		2.05	5.08	1	12/31/2020 01:35	WG1599168
C28-C40 Oil Range	0.672	J	0.348	5.08	1	12/31/2020 01:35	WG1599168
(S) o-Terphenyl	*67.1*			*18.0-148*		*12/31/2020 01:35*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	830		10.9	23.6	1	12/29/2020 20:41	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		1.33	6.11	47.8	12/29/2020 11:49	WG1598322
(S) a,a,a-Trifluorotoluene(FID)	*115*			*77.0-120*		*12/29/2020 11:49*	WG1598322

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00114	0.00244	1.91	12/24/2020 21:08	WG1597123
Toluene	U		0.00317	0.0122	1.91	12/24/2020 21:08	WG1597123
Ethylbenzene	U		0.00180	0.00611	1.91	12/24/2020 21:08	WG1597123
Total Xylenes	U		0.00215	0.0158	1.91	12/24/2020 21:08	WG1597123
(S) Toluene-d8	*98.9*			*75.0-131*		*12/24/2020 21:08*	WG1597123
(S) 4-Bromofluorobenzene	*127*			*67.0-138*		*12/24/2020 21:08*	WG1597123
(S) 1,2-Dichloroethane-d4	*133*	J1		*70.0-130*		*12/24/2020 21:08*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.90	4.73	1	12/31/2020 01:49	WG1599168
C28-C40 Oil Range	0.699	J	0.324	4.73	1	12/31/2020 01:49	WG1599168
(S) o-Terphenyl	*77.3*			*18.0-148*		*12/31/2020 01:49*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	393		9.96	21.7	1	12/29/2020 20:51	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.640	2.94	25	12/29/2020 12:51	WG1598322
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/29/2020 12:51*	WG1598322

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000550	0.00118	1	12/24/2020 21:28	WG1597123
Toluene	U		0.00153	0.00589	1	12/24/2020 21:28	WG1597123
Ethylbenzene	U		0.000868	0.00294	1	12/24/2020 21:28	WG1597123
Total Xylenes	U		0.00104	0.00766	1	12/24/2020 21:28	WG1597123
(S) Toluene-d8	*62.0*	J2		*75.0-131*		*12/24/2020 21:28*	WG1597123
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*		*12/24/2020 21:28*	WG1597123
(S) 1,2-Dichloroethane-d4	*94.7*			*70.0-130*		*12/24/2020 21:28*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.11	J	1.74	4.33	1	12/31/2020 02:02	WG1599168
C28-C40 Oil Range	U		0.297	4.33	1	12/31/2020 02:02	WG1599168
(S) o-Terphenyl	*83.3*			*18.0-148*		*12/31/2020 02:02*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	12/31/2020 01:05	WG1598920

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	199		9.63	20.9	1	12/29/2020 21:00	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.612	2.82	25.8	12/29/2020 13:12	WG1598322
(S) a,a,a-Trifluorotoluene(FID)	*115*			*77.0-120*		*12/29/2020 13:12*	WG1598322

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000525	0.00113	1.03	12/24/2020 21:47	WG1597123
Toluene	U		0.00146	0.00563	1.03	12/24/2020 21:47	WG1597123
Ethylbenzene	U		0.000829	0.00282	1.03	12/24/2020 21:47	WG1597123
Total Xylenes	U		0.000990	0.00732	1.03	12/24/2020 21:47	WG1597123
(S) Toluene-d8	*93.5*			*75.0-131*		*12/24/2020 21:47*	WG1597123
(S) 4-Bromofluorobenzene	*153*	J1		*67.0-138*		*12/24/2020 21:47*	WG1597123
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*12/24/2020 21:47*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.19	1	12/31/2020 02:15	WG1599168
C28-C40 Oil Range	U		0.287	4.19	1	12/31/2020 02:15	WG1599168
(S) o-Terphenyl	*77.1*			*18.0-148*		*12/31/2020 02:15*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.8		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	65.6		9.92	21.6	1	12/29/2020 21:29	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.662	3.05	26.5	12/29/2020 11:55	WG1598323
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*12/29/2020 11:55*	WG1598323

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000570	0.00122	1.06	12/24/2020 22:05	WG1597123
Toluene	0.00281	J	0.00159	0.00610	1.06	12/24/2020 22:05	WG1597123
Ethylbenzene	0.00216	J	0.000899	0.00305	1.06	12/24/2020 22:05	WG1597123
Total Xylenes	0.00555	J	0.00107	0.00793	1.06	12/24/2020 22:05	WG1597123
(S) Toluene-d8	*82.2*			*75.0-131*		*12/24/2020 22:05*	WG1597123
(S) 4-Bromofluorobenzene	*130*			*67.0-138*		*12/24/2020 22:05*	WG1597123
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*12/24/2020 22:05*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	15.8		1.74	4.31	1	12/31/2020 12:12	WG1599168
C28-C40 Oil Range	73.7		0.295	4.31	1	12/31/2020 12:12	WG1599168
(S) o-Terphenyl	*76.8*			*18.0-148*		*12/31/2020 12:12*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	194		50.1	109	5	12/29/2020 21:38	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.651	3.00	25.5	12/29/2020 12:17	WG1598323
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*12/29/2020 12:17*	WG1598323

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000561	0.00120	1.02	12/24/2020 22:24	WG1597123
Toluene	0.00469	J	0.00157	0.00601	1.02	12/24/2020 22:24	WG1597123
Ethylbenzene	0.00283	J	0.000886	0.00300	1.02	12/24/2020 22:24	WG1597123
Total Xylenes	0.00648	J	0.00106	0.00781	1.02	12/24/2020 22:24	WG1597123
(S) Toluene-d8	*87.7*			*75.0-131*		*12/24/2020 22:24*	WG1597123
(S) 4-Bromofluorobenzene	*60.8*	J2		*67.0-138*		*12/24/2020 22:24*	WG1597123
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*12/24/2020 22:24*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.33		1.75	4.36	1	12/31/2020 05:07	WG1599168
C28-C40 Oil Range	18.4		0.299	4.36	1	12/31/2020 05:07	WG1599168
(S) o-Terphenyl	*79.5*			*18.0-148*		*12/31/2020 05:07*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1120		49.5	108	5	12/29/2020 21:48	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.678	3.13	27.3	12/29/2020 12:39	WG1598323
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*12/29/2020 12:39*	WG1598323

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000583	0.00125	1.09	12/24/2020 22:43	WG1597123
Toluene	U		0.00163	0.00624	1.09	12/24/2020 22:43	WG1597123
Ethylbenzene	U		0.000919	0.00313	1.09	12/24/2020 22:43	WG1597123
Total Xylenes	0.00121	J	0.00110	0.00811	1.09	12/24/2020 22:43	WG1597123
(S) Toluene-d8	*99.7*			*75.0-131*		*12/24/2020 22:43*	WG1597123
(S) 4-Bromofluorobenzene	*98.2*			*67.0-138*		*12/24/2020 22:43*	WG1597123
(S) 1,2-Dichloroethane-d4	*82.5*			*70.0-130*		*12/24/2020 22:43*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.59	J	1.73	4.30	1	12/31/2020 04:14	WG1599168
C28-C40 Oil Range	8.67		0.295	4.30	1	12/31/2020 04:14	WG1599168
(S) o-Terphenyl	*82.2*			*18.0-148*		*12/31/2020 04:14*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	418		10.2	22.1	1	12/29/2020 21:57	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.665	3.06	25	12/29/2020 13:02	WG1598323
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*12/29/2020 13:02*	WG1598323

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000572	0.00122	1	12/24/2020 23:02	WG1597123
Toluene	U		0.00159	0.00612	1	12/24/2020 23:02	WG1597123
Ethylbenzene	U		0.000902	0.00306	1	12/24/2020 23:02	WG1597123
Total Xylenes	U		0.00108	0.00796	1	12/24/2020 23:02	WG1597123
(S) Toluene-d8	*61.6*	J2		*75.0-131*		*12/24/2020 23:02*	WG1597123
(S) 4-Bromofluorobenzene	*93.3*			*67.0-138*		*12/24/2020 23:02*	WG1597123
(S) 1,2-Dichloroethane-d4	*84.9*			*70.0-130*		*12/24/2020 23:02*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.43	1	12/31/2020 02:29	WG1599168
C28-C40 Oil Range	0.439	J	0.303	4.43	1	12/31/2020 02:29	WG1599168
(S) o-Terphenyl	*81.8*			*18.0-148*		*12/31/2020 02:29*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.3		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	155		9.55	20.8	1	12/29/2020 22:07	WG1598244

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.697	3.21	30	12/29/2020 13:24	WG1598323
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*12/29/2020 13:24*	WG1598323

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000600	0.00128	1.2	12/24/2020 23:21	WG1597123
Toluene	U		0.00167	0.00642	1.2	12/24/2020 23:21	WG1597123
Ethylbenzene	U		0.000946	0.00321	1.2	12/24/2020 23:21	WG1597123
Total Xylenes	U		0.00113	0.00835	1.2	12/24/2020 23:21	WG1597123
(S) Toluene-d8	*114*			*75.0-131*		*12/24/2020 23:21*	WG1597123
(S) 4-Bromofluorobenzene	*116*			*67.0-138*		*12/24/2020 23:21*	WG1597123
(S) 1,2-Dichloroethane-d4	*88.7*			*70.0-130*		*12/24/2020 23:21*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.72	J	1.67	4.15	1	12/31/2020 02:42	WG1599168
C28-C40 Oil Range	3.39	J	0.285	4.15	1	12/31/2020 02:42	WG1599168
(S) o-Terphenyl	*82.3*			*18.0-148*		*12/31/2020 02:42*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.0		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1310		54.1	118	5	12/29/2020 23:04	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.745	3.43	25	12/29/2020 13:47	WG1598323
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*12/29/2020 13:47*	WG1598323

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000640	0.00137	1	12/24/2020 23:40	WG1597123
Toluene	U		0.00178	0.00686	1	12/24/2020 23:40	WG1597123
Ethylbenzene	U		0.00101	0.00343	1	12/24/2020 23:40	WG1597123
Total Xylenes	U		0.00121	0.00891	1	12/24/2020 23:40	WG1597123
(S) Toluene-d8	*99.6*			*75.0-131*		*12/24/2020 23:40*	WG1597123
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*12/24/2020 23:40*	WG1597123
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*12/24/2020 23:40*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.89	4.70	1	12/31/2020 02:55	WG1599168
C28-C40 Oil Range	U		0.322	4.70	1	12/31/2020 02:55	WG1599168
(S) o-Terphenyl	*77.4*			*18.0-148*		*12/31/2020 02:55*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	982		49.5	108	5	12/29/2020 23:23	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.644	2.97	25.8	12/29/2020 14:09	WG1598323
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*12/29/2020 14:09*	WG1598323

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000553	0.00118	1.03	12/24/2020 23:59	WG1597123
Toluene	U		0.00154	0.00592	1.03	12/24/2020 23:59	WG1597123
Ethylbenzene	U		0.000873	0.00297	1.03	12/24/2020 23:59	WG1597123
Total Xylenes	U		0.00104	0.00770	1.03	12/24/2020 23:59	WG1597123
(S) Toluene-d8	*99.8*			*75.0-131*		*12/24/2020 23:59*	WG1597123
(S) 4-Bromofluorobenzene	*97.0*			*67.0-138*		*12/24/2020 23:59*	WG1597123
(S) 1,2-Dichloroethane-d4	*91.8*			*70.0-130*		*12/24/2020 23:59*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.30	1	12/31/2020 03:08	WG1599168
C28-C40 Oil Range	U		0.295	4.30	1	12/31/2020 03:08	WG1599168
(S) o-Terphenyl	*82.6*			*18.0-148*		*12/31/2020 03:08*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.3		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	385		9.65	21.0	1	12/29/2020 23:32	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		1.00	4.61	42.8	12/31/2020 06:24	WG1599146
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-120*		*12/31/2020 06:24*	WG1599146

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000861	0.00184	1.71	12/25/2020 00:18	WG1597123
Toluene	U		0.00239	0.00922	1.71	12/25/2020 00:18	WG1597123
Ethylbenzene	U		0.00136	0.00461	1.71	12/25/2020 00:18	WG1597123
Total Xylenes	U		0.00162	0.0120	1.71	12/25/2020 00:18	WG1597123
(S) Toluene-d8	*101*			*75.0-131*		*12/25/2020 00:18*	WG1597123
(S) 4-Bromofluorobenzene	*95.3*			*67.0-138*		*12/25/2020 00:18*	WG1597123
(S) 1,2-Dichloroethane-d4	*87.3*			*70.0-130*		*12/25/2020 00:18*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.20	1	12/31/2020 03:21	WG1599168
C28-C40 Oil Range	U		0.287	4.20	1	12/31/2020 03:21	WG1599168
(S) o-Terphenyl	*82.2*			*18.0-148*		*12/31/2020 03:21*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	131		9.63	20.9	1	12/29/2020 23:42	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.598	2.75	25	12/31/2020 06:47	WG1599146
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-120*		*12/31/2020 06:47*	WG1599146

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000514	0.00110	1	12/25/2020 00:38	WG1597123
Toluene	U		0.00143	0.00551	1	12/25/2020 00:38	WG1597123
Ethylbenzene	U		0.000811	0.00275	1	12/25/2020 00:38	WG1597123
Total Xylenes	U		0.000969	0.00716	1	12/25/2020 00:38	WG1597123
(S) Toluene-d8	*99.7*			*75.0-131*		*12/25/2020 00:38*	WG1597123
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*12/25/2020 00:38*	WG1597123
(S) 1,2-Dichloroethane-d4	*78.5*			*70.0-130*		*12/25/2020 00:38*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.19	1	12/31/2020 03:35	WG1599168
C28-C40 Oil Range	U		0.287	4.19	1	12/31/2020 03:35	WG1599168
(S) o-Terphenyl	*82.0*			*18.0-148*		*12/31/2020 03:35*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.2		1	12/31/2020 00:43	WG1598921

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	20.3	J	9.98	21.7	1	12/29/2020 23:51	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.637	2.93	25	12/31/2020 07:09	WG1599146
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*77.0-120*		*12/31/2020 07:09*	WG1599146

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000548	0.00117	1	12/25/2020 00:57	WG1597123
Toluene	0.00290	J	0.00153	0.00587	1	12/25/2020 00:57	WG1597123
Ethylbenzene	U		0.000865	0.00293	1	12/25/2020 00:57	WG1597123
Total Xylenes	0.00106	J	0.00103	0.00763	1	12/25/2020 00:57	WG1597123
(S) Toluene-d8	*174*	J1		*75.0-131*		*12/25/2020 00:57*	WG1597123
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*12/25/2020 00:57*	WG1597123
(S) 1,2-Dichloroethane-d4	*78.6*			*70.0-130*		*12/25/2020 00:57*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.79		1.75	4.34	1	12/31/2020 04:01	WG1599168
C28-C40 Oil Range	12.5		0.297	4.34	1	12/31/2020 04:01	WG1599168
(S) o-Terphenyl	*77.8*			*18.0-148*		*12/31/2020 04:01*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	12/31/2020 00:29	WG1598922

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.85	21.4	1	12/30/2020 00:01	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		1.12	5.15	46.5	12/31/2020 07:32	WG1599146
(S) a,a,a-Trifluorotoluene(FID)	*97.4*			*77.0-120*		*12/31/2020 07:32*	WG1599146

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000963	0.00206	1.86	12/25/2020 01:16	WG1597123
Toluene	U		0.00268	0.0103	1.86	12/25/2020 01:16	WG1597123
Ethylbenzene	U		0.00152	0.00515	1.86	12/25/2020 01:16	WG1597123
Total Xylenes	U		0.00182	0.0134	1.86	12/25/2020 01:16	WG1597123
(S) Toluene-d8	*92.3*			*75.0-131*		*12/25/2020 01:16*	WG1597123
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*12/25/2020 01:16*	WG1597123
(S) 1,2-Dichloroethane-d4	*87.3*			*70.0-130*		*12/25/2020 01:16*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.48	J	1.72	4.28	1	12/31/2020 03:48	WG1599168
C28-C40 Oil Range	3.65	J	0.293	4.28	1	12/31/2020 03:48	WG1599168
(S) o-Terphenyl	*80.8*			*18.0-148*		*12/31/2020 03:48*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	12/31/2020 00:29	WG1598922

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	32.7		9.44	20.5	1	12/30/2020 00:10	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.633	2.92	27.8	12/31/2020 07:54	WG1599146
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*12/31/2020 07:54*	WG1599146

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U	J3	0.000544	0.00117	1.11	12/25/2020 01:35	WG1597123
Toluene	U		0.00151	0.00583	1.11	12/25/2020 01:35	WG1597123
Ethylbenzene	0.000991	J	0.000859	0.00292	1.11	12/25/2020 01:35	WG1597123
Total Xylenes	U	J3	0.00103	0.00758	1.11	12/25/2020 01:35	WG1597123
(S) Toluene-d8	*65.5*	J2		*75.0-131*		*12/25/2020 01:35*	WG1597123
(S) 4-Bromofluorobenzene	*79.3*			*67.0-138*		*12/25/2020 01:35*	WG1597123
(S) 1,2-Dichloroethane-d4	*85.6*			*70.0-130*		*12/25/2020 01:35*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.76		1.65	4.11	1	12/31/2020 17:26	WG1599168
C28-C40 Oil Range	50.5		0.281	4.11	1	12/31/2020 17:26	WG1599168
(S) o-Terphenyl	*75.5*			*18.0-148*		*12/31/2020 17:26*	WG1599168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	12/31/2020 00:29	WG1598922

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	100		9.57	20.8	1	12/30/2020 00:39	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		1.65	7.62	72.3	12/31/2020 08:16	WG1599146
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*77.0-120*		*12/31/2020 08:16*	WG1599146

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00142	0.00305	2.89	12/25/2020 01:54	WG1597123
Toluene	U		0.00396	0.0153	2.89	12/25/2020 01:54	WG1597123
Ethylbenzene	U		0.00224	0.00762	2.89	12/25/2020 01:54	WG1597123
Total Xylenes	U		0.00268	0.0198	2.89	12/25/2020 01:54	WG1597123
(S) Toluene-d8	*90.4*			*75.0-131*		*12/25/2020 01:54*	WG1597123
(S) 4-Bromofluorobenzene	*97.0*			*67.0-138*		*12/25/2020 01:54*	WG1597123
(S) 1,2-Dichloroethane-d4	*87.8*			*70.0-130*		*12/25/2020 01:54*	WG1597123

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.12		1.67	4.16	1	12/31/2020 06:45	WG1599169
C28-C40 Oil Range	16.3		0.285	4.16	1	12/31/2020 06:45	WG1599169
(S) o-Terphenyl	*78.2*			*18.0-148*		*12/31/2020 06:45*	WG1599169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.9		1	12/31/2020 00:29	WG1598922

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	22.6		9.40	20.4	1	12/30/2020 00:49	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.755	3.48	33.5	12/31/2020 08:38	WG1599146
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-120*		*12/31/2020 08:38*	WG1599146

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000661	J	0.000650	0.00139	1.34	12/24/2020 19:42	WG1597130
Toluene	0.00281	J	0.00181	0.00696	1.34	12/24/2020 19:42	WG1597130
Ethylbenzene	U		0.00103	0.00348	1.34	12/24/2020 19:42	WG1597130
Total Xylenes	U		0.00123	0.00904	1.34	12/24/2020 19:42	WG1597130
(S) Toluene-d8	*95.9*			*75.0-131*		*12/24/2020 19:42*	WG1597130
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*12/24/2020 19:42*	WG1597130
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*12/24/2020 19:42*	WG1597130

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.27		1.65	4.09	1	12/31/2020 06:58	WG1599169
C28-C40 Oil Range	33.5		0.280	4.09	1	12/31/2020 06:58	WG1599169
(S) o-Terphenyl	*78.7*			*18.0-148*		*12/31/2020 06:58*	WG1599169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	12/31/2020 00:29	WG1598922

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	78.5		9.47	20.6	1	12/30/2020 00:58	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.675	3.11	29.5	12/30/2020 18:50	WG1599226
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*12/30/2020 18:50*	WG1599226

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000581	0.00124	1.18	12/24/2020 20:01	WG1597130
Toluene	U		0.00161	0.00622	1.18	12/24/2020 20:01	WG1597130
Ethylbenzene	U		0.000918	0.00311	1.18	12/24/2020 20:01	WG1597130
Total Xylenes	U		0.00110	0.00809	1.18	12/24/2020 20:01	WG1597130
(S) Toluene-d8	*98.5*			*75.0-131*		*12/24/2020 20:01*	WG1597130
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*12/24/2020 20:01*	WG1597130
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*12/24/2020 20:01*	WG1597130

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.57	J	1.66	4.12	1	12/31/2020 05:26	WG1599169
C28-C40 Oil Range	4.27		0.282	4.12	1	12/31/2020 05:26	WG1599169
(S) o-Terphenyl	*75.9*			*18.0-148*		*12/31/2020 05:26*	WG1599169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	12/31/2020 00:29	WG1598922

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	949		52.6	114	5	12/30/2020 01:27	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		1.54	7.08	58.8	12/30/2020 19:12	WG1599226
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/30/2020 19:12*	WG1599226

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00132	0.00283	2.35	12/24/2020 20:20	WG1597130
Toluene	U		0.00367	0.0141	2.35	12/24/2020 20:20	WG1597130
Ethylbenzene	U		0.00208	0.00706	2.35	12/24/2020 20:20	WG1597130
Total Xylenes	U		0.00249	0.0184	2.35	12/24/2020 20:20	WG1597130
(S) Toluene-d8	*94.9*			*75.0-131*		*12/24/2020 20:20*	WG1597130
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*12/24/2020 20:20*	WG1597130
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*12/24/2020 20:20*	WG1597130

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	61.2		3.68	9.14	2	12/31/2020 10:40	WG1599169
C28-C40 Oil Range	175		0.626	9.14	2	12/31/2020 10:40	WG1599169
(S) o-Terphenyl	*97.3*			*18.0-148*		*12/31/2020 10:40*	WG1599169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	12/31/2020 00:29	WG1598922

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	500	J3	10.1	22.0	1	12/30/2020 01:36	WG1598250

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.941	4.34	37	12/30/2020 19:34	WG1599226
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*12/30/2020 19:34*	WG1599226

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000810	0.00173	1.48	12/24/2020 20:40	WG1597130
Toluene	0.00390	J	0.00225	0.00867	1.48	12/24/2020 20:40	WG1597130
Ethylbenzene	U		0.00128	0.00434	1.48	12/24/2020 20:40	WG1597130
Total Xylenes	U		0.00152	0.0113	1.48	12/24/2020 20:40	WG1597130
(S) Toluene-d8	*99.4*			*75.0-131*		*12/24/2020 20:40*	WG1597130
(S) 4-Bromofluorobenzene	*95.7*			*67.0-138*		*12/24/2020 20:40*	WG1597130
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*12/24/2020 20:40*	WG1597130

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.02		1.77	4.41	1	12/31/2020 09:47	WG1599169
C28-C40 Oil Range	36.6		0.302	4.41	1	12/31/2020 09:47	WG1599169
(S) o-Terphenyl	*91.0*			*18.0-148*		*12/31/2020 09:47*	WG1599169

Method Blank (MB)

(MB) R3608645-1 12/31/20 01:34

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1299136-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1299136-02 12/31/20 01:34 • (DUP) R3608645-3 12/31/20 01:34

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.3	92.8	1	0.494		10

Laboratory Control Sample (LCS)

(LCS) R3608645-2 12/31/20 01:34

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3608639-1 12/31/20 01:05

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1299136-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1299136-13 12/31/20 01:05 • (DUP) R3608639-3 12/31/20 01:05

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.6	87.8	1	3.80		10

Laboratory Control Sample (LCS)

(LCS) R3608639-2 12/31/20 01:05

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3608633-1 12/31/20 00:43

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1299136-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1299136-24 12/31/20 00:43 • (DUP) R3608633-3 12/31/20 00:43

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	95.6	95.5	1	0.0694		10

Laboratory Control Sample (LCS)

(LCS) R3608633-2 12/31/20 00:43

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3608629-1 12/31/20 00:29

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1299139-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1299139-02 12/31/20 00:29 • (DUP) R3608629-3 12/31/20 00:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.4	93.1	1	0.769		10

Laboratory Control Sample (LCS)

(LCS) R3608629-2 12/31/20 00:29

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3608232-1 12/29/20 17:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1299136-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1299136-01 12/29/20 17:58 • (DUP) R3608232-3 12/29/20 18:07

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	213	248	1	15.1		20

L1299136-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1299136-20 12/29/20 22:07 • (DUP) R3608232-6 12/29/20 22:16

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	155	154	1	0.874		20

Laboratory Control Sample (LCS)

(LCS) R3608232-2 12/29/20 17:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	202	101	90.0-110	

L1299136-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299136-10 12/29/20 19:53 • (MS) R3608232-4 12/29/20 20:03 • (MSD) R3608232-5 12/29/20 20:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	532	88.8	629	622	102	100	1	80.0-120			1.08	20

Method Blank (MB)

(MB) R3608233-1 12/29/20 22:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1299136-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1299136-21 12/29/20 23:04 • (DUP) R3608233-3 12/29/20 23:13

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1310	1140	5	13.8		20

L1299136-32 Original Sample (OS) • Duplicate (DUP)

(OS) L1299136-32 12/30/20 01:36 • (DUP) R3608233-6 12/30/20 01:46

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	500	349	1	35.6	J3	20

Laboratory Control Sample (LCS)

(LCS) R3608233-2 12/29/20 22:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	203	101	90.0-110	

L1299136-30 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299136-30 12/30/20 00:58 • (MS) R3608233-4 12/30/20 01:08 • (MSD) R3608233-5 12/30/20 01:17

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	515	78.5	599	633	101	108	1	80.0-120			5.52	20

Method Blank (MB)

(MB) R3607900-2 12/27/20 21:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3607900-1 12/27/20 20:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.04	91.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*77.0-120*	

Method Blank (MB)

(MB) R3608063-3 12/29/20 04:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3608063-2 12/29/20 03:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.27	77.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*99.2*	*77.0-120*	

Method Blank (MB)

(MB) R3608780-3 12/29/20 03:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3608780-2 12/29/20 02:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.53	119	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1299136-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299136-16 12/29/20 11:55 • (MS) R3608780-4 12/29/20 14:31 • (MSD) R3608780-5 12/29/20 14:53

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	168	U	197	187	117	111	26.5	10.0-151			5.41	28
(S) a,a,a-Trifluorotoluene(FID)					*107*	*107*		*77.0-120*				

Method Blank (MB)

(MB) R3608453-3 12/29/20 19:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3608453-2 12/29/20 19:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.79	87.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

Method Blank (MB)

(MB) R3608640-2 12/31/20 00:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3608640-1 12/30/20 23:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.88	107	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*77.0-120*	

L1299136-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299136-23 12/31/20 06:24 • (MS) R3608640-3 12/31/20 09:00 • (MSD) R3608640-4 12/31/20 09:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	253	U	217	212	85.5	83.8	42.8	10.0-151			2.01	28
(S) a,a,a-Trifluorotoluene(FID)					*103*	*102*		*77.0-120*				

Method Blank (MB)

(MB) R3608707-4 12/30/20 16:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0472	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3608707-1 12/30/20 15:08 • (LCSD) R3608707-2 12/30/20 15:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.98	5.78	127	105	72.0-127			18.8	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*105*	*77.0-120*				

L1299136-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299136-32 12/30/20 19:34 • (MS) R3608707-7 12/31/20 01:11 • (MSD) R3608707-8 12/31/20 01:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	239	U	291	239	122	100	37	10.0-151			19.5	28
(S) a,a,a-Trifluorotoluene(FID)					*107*	*105*		*77.0-120*				

Method Blank (MB)

(MB) R3608608-3 12/24/20 10:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*96.5*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3608608-1 12/24/20 08:57 • (LCSD) R3608608-2 12/24/20 09:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.130	0.128	104	102	70.0-123			1.55	20
Ethylbenzene	0.125	0.116	0.115	92.8	92.0	74.0-126			0.866	20
Toluene	0.125	0.111	0.116	88.8	92.8	75.0-121			4.41	20
Xylenes, Total	0.375	0.323	0.331	86.1	88.3	72.0-127			2.45	20
(S) Toluene-d8				*92.8*	*95.7*	*75.0-131*				
(S) 4-Bromofluorobenzene				*106*	*98.6*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*104*	*70.0-130*				

L1298795-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1298795-08 12/24/20 12:46 • (MS) R3608608-4 12/24/20 17:11 • (MSD) R3608608-5 12/24/20 17:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	U	0.0808	0.0830	64.6	66.4	1	10.0-149			2.69	37
Ethylbenzene	0.125	U	0.0676	0.0674	54.1	53.9	1	10.0-160			0.296	38
Toluene	0.125	U	0.106	0.107	84.8	85.6	1	10.0-156			0.939	38
Xylenes, Total	0.375	0.00225	0.274	0.278	72.5	73.5	1	10.0-160			1.45	38
(S) Toluene-d8					*95.1*	*94.1*		*75.0-131*				
(S) 4-Bromofluorobenzene					*100*	*101*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*98.7*	*104*		*70.0-130*				

Method Blank (MB)

(MB) R3607403-2 12/24/20 19:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3607403-1 12/24/20 18:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.125	100	70.0-123	
Ethylbenzene	0.125	0.126	101	74.0-126	
Toluene	0.125	0.124	99.2	75.0-121	
Xylenes, Total	0.375	0.381	102	72.0-127	
(S) Toluene-d8			*100*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.3*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

L1299136-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299136-27 12/25/20 01:35 • (MS) R3607403-3 12/25/20 02:13 • (MSD) R3607403-4 12/25/20 02:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.146	U	0.138	0.0875	94.2	59.9	1.11	10.0-149		J3	44.5	37
Ethylbenzene	0.146	0.000991	0.131	0.0900	89.2	61.0	1.11	10.0-160			37.3	38
Toluene	0.146	U	0.0987	0.0710	67.6	48.6	1.11	10.0-156			32.7	38
Xylenes, Total	0.438	U	0.426	0.268	97.4	61.2	1.11	10.0-160		J3	45.7	38
(S) Toluene-d8					*75.6*	*78.9*		*75.0-131*				
(S) 4-Bromofluorobenzene					*106*	*113*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*102*	*93.2*		*70.0-130*				

Method Blank (MB)

(MB) R3608500-2 12/24/20 19:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*98.3*			*75.0-131*
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3608500-1 12/24/20 18:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.129	103	70.0-123	
Ethylbenzene	0.125	0.115	92.0	74.0-126	
Toluene	0.125	0.112	89.6	75.0-121	
Xylenes, Total	0.375	0.336	89.6	72.0-127	
(S) Toluene-d8			*93.1*	*75.0-131*	
(S) 4-Bromofluorobenzene			*106*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*106*	*70.0-130*	

L1299139-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299139-15 12/25/20 01:25 • (MS) R3608500-3 12/25/20 02:03 • (MSD) R3608500-4 12/25/20 02:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.155	U	0.0892	0.0837	57.6	54.1	1.15	10.0-149			6.34	37
Ethylbenzene	0.155	U	0.0742	0.0696	47.9	44.9	1.15	10.0-160			6.43	38
Toluene	0.155	U	0.0763	0.0730	49.3	47.2	1.15	10.0-156			4.46	38
Xylenes, Total	0.463	U	0.223	0.217	48.0	46.9	1.15	10.0-160			2.44	38
(S) Toluene-d8					*94.2*	*94.4*		*75.0-131*				
(S) 4-Bromofluorobenzene					*99.7*	*99.2*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*103*	*101*		*70.0-130*				

Method Blank (MB)

(MB) R3608508-1 12/30/20 13:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*55.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3608508-2 12/30/20 13:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	32.7	65.4	50.0-150	
(S) o-Terphenyl			*48.9*	*18.0-148*	

L1299136-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299136-01 12/30/20 22:27 • (MS) R3608547-1 12/30/20 22:40 • (MSD) R3608547-2 12/30/20 22:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	51.3	674	435	475	0.000	0.000	5	50.0-150	V	V	8.76	20
(S) o-Terphenyl					*94.0*	*84.2*		*18.0-148*				

Method Blank (MB)

(MB) R3608548-1 12/31/20 00:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*88.9*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3608548-2 12/31/20 00:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	44.9	89.8	50.0-150	
(S) o-Terphenyl			*114*	*18.0-148*	

L1299136-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299136-18 12/31/20 04:14 • (MS) R3608548-3 12/31/20 04:28 • (MSD) R3608548-4 12/31/20 04:41

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	52.5	3.59	45.6	46.5	80.0	81.0	1	50.0-150			1.87	20
(S) o-Terphenyl					*95.5*	*96.6*		*18.0-148*				

Method Blank (MB)

(MB) R3608575-1 12/31/20 04:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*100*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3608575-2 12/31/20 04:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	46.6	93.2	50.0-150	
(S) o-Terphenyl			*100*	*18.0-148*	

L1298591-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1298591-02 12/31/20 06:06 • (MS) R3608575-3 12/31/20 06:19 • (MSD) R3608575-4 12/31/20 06:32

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	47.1	4.18	45.4	47.7	87.5	90.1	1	50.0-150			4.94	20
(S) o-Terphenyl					*68.9*	*68.8*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA

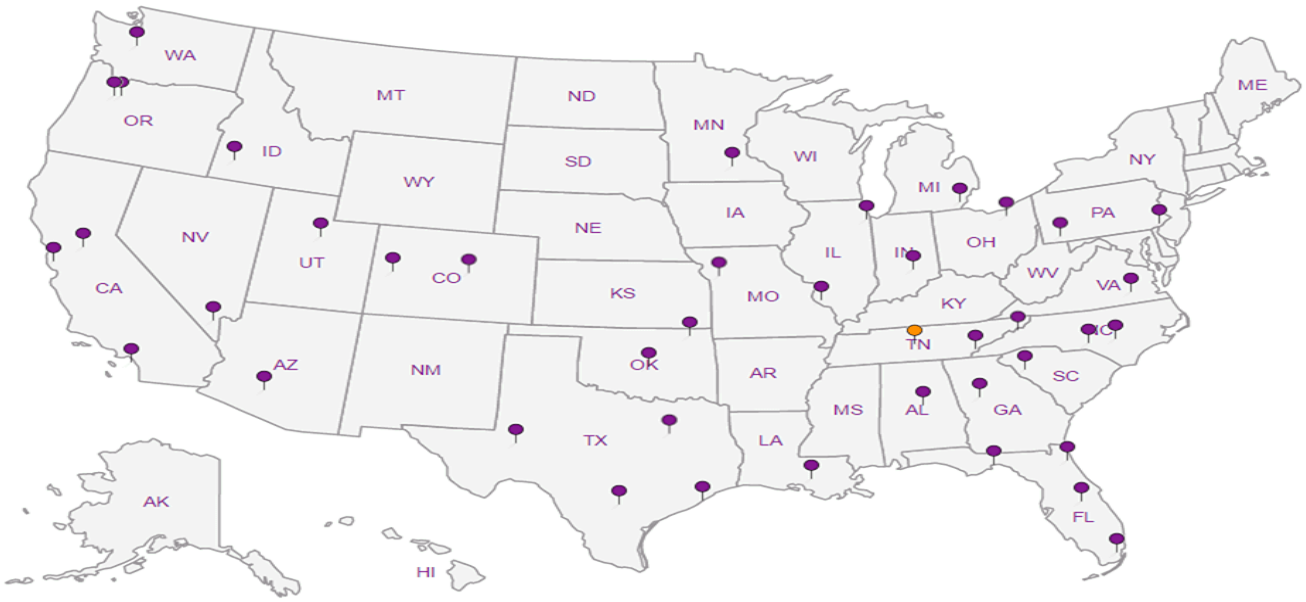
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

D060

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 2658-011 Wellhead Release (1RP-4361)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 26
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
1299136																																	
01	BH-1 (0'-1')	12/17/20	1000		X				X			1	N	X		X												X					
02	BH-1 (2'-3')	12/17/20	1010		X				X			1	N	X		X												X					
03	BH-1 (4'-5')	12/17/20	1020		X				X			1	N	X		X												X					
04	BH-1 (6'-7')	12/17/20	1030		X				X			1	N	X		X												X					
05	BH-1 (9'-10')	12/17/20	1040		X				X			1	N	X		X												X					
06	BH-1 (14'-15')	12/17/20	1100		X				X			1	N	X		X												X					
07	BH-2 (0'-1')	12/17/20	1130		X				X			1	N	X		X												X					
08	BH-2 (2'-3')	12/17/20	1140		X				X			1	N	X		X												X					
09	BH-2 (4'-5')	12/17/20	1150		X				X			1	N	X		X												X					
10	BH-2 (6'-7')	12/17/20	1200		X				X			1	N	X		X												X					

Relinquished by:	Date: 12.18.20	Time: 1310	Received by:	Date: 12.18.20	Time: 1310
Relinquished by:	Date: 12.18.20	Time: 1630	Received by: SCA	Date: 12.18.20	Time: 1630
Relinquished by:	Date:	Time:	Received by:	Date: 12/19	Time: 0742

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

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 #: _____

.510=.5 AA2

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 2658-011 Wellhead Release (1RP-4361)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 26
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
1299136		YEAR: 2020																																
11	BH-2 (9'-10')	12/17/20	1210		X				X			1	N	X		X												X						
12	BH-2 (14'-15')	12/17/20	1230		X				X			1	N	X		X												X						
13	BH-2 (19'-20')	12/17/20	1250		X				X			1	N	X		X												X						
14	BH-2 (24'-25')	12/17/20	1310		X				X			1	N	X		X												X						
15	BH-2 (29'-30')	12/17/20	1330		X				X			1	N	X		X												X						
16	BH-3 (0'-1')	12/17/20	1400		X				X			1	N	X		X												X						
17	BH-3 (2'-3')	12/17/20	1410		X				X			1	N	X		X												X						
18	BH-3 (4'-5')	12/17/20	1420		X				X			1	N	X		X												X						
19	BH-3 (6'-7')	12/17/20	1430		X				X			1	N	X		X												X						
20	BH-3 (9'-10')	12/17/20	1440		X				X			1	N	X		X												X						

Relinquished by: Joe Tyler	Date: 12.18.20	Time: 13:00	Received by:	Date: 12.18.20	Time: 13:00
Relinquished by:	Date: 12.18.20	Time: 16:30	Received by: SwA	Date: 12.18.20	Time: 1630
Relinquished by:	Date:	Time:	Received by:	Date: 12/15	Time: 10:45

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

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 #: _____

1 Stacks

Chain of Custody Record

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips		
Project Name:	EVGSAU 2658-011 Wellhead Release (1RP-4361)	**Site Manager:**	Christian Llull
Project Location: (county, state)	Lea County, New Mexico	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701	**Project #:**	212C-MD-02334, Task No. 26
Receiving Laboratory:	Pace Analytical		
Comments:	COPTETRA Acctnum	**Sampler Signature:**	Joe Tyler

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
1299136																																
21	BH-3 (14'-15')	12/17/20	1450		X			X		1	N	X		X												X						
22	BH-3 (19'-20')	12/17/20	1500		X			X		1	N	X		X												X						
23	BH-3 (24'-25')	12/17/20	1520		X			X		1	N	X		X												X						
24	BH-3 (29'-30')	12/17/20	1540		X			X		1	N	X		X												X						
25	BH-4 (0'-1')	12/17/20	1600		X			X		1	N	X		X												X						
26	BH-4 (3'-4')	12/17/20	1610		X			X		1	N	X		X												X						
27	BH-5 (0'-1')	12/17/20	1620		X			X		1	N	X		X												X						
28	BH-5 (3'-4')	12/17/20	1630		X			X		1	N	X		X												X						
29	BH-6 (0'-1')	12/17/20	1640		X			X		1	N	X		X												X						
30	BH-6 (3'-4')	12/17/20	1650		X			X		1	N	X		X												X						

Relinquished by: Joe Tyler	Date: 12.18.20	Time: 1300	Received by: [signature]
Relinquished by: [signature]	Date: 12.18.20	Time: 1630	Received by: SWA
Relinquished by:	Date:	Time:	Received by: [signature] Date: 12/18 Time: 1045

LAB USE ONLY
Sample Temperature

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analytical Request Chain of Custody Record

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 2658-011 Wellhead Release (1RP-4361)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 26
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
1299176																															
31	BH-7 (0'-1')	12/17/20	1700		X			X		1	N	X		X												X					
32	BH-7 (3'-4')	12/17/20	1710		X			X		1	N	X		X												X					

Relinquished by: Joe Tyler Date: 12.18.20 Time: 13:00
Received by: [signature] Date: 12.18.20 Time: 13:00

Relinquished by: [signature] Date: 12.18.20 Time: 16:30
Received by: SOA Date: 12.18.20 Time: 1630

Relinquished by: Date: Time:
Received by: [signature] Date: 12/19 Time: 10:45

ORIGINAL COPY

LAB USE ONLY
Sample Temperature

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 #: _____

1.5+0=5

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

February 18, 2021

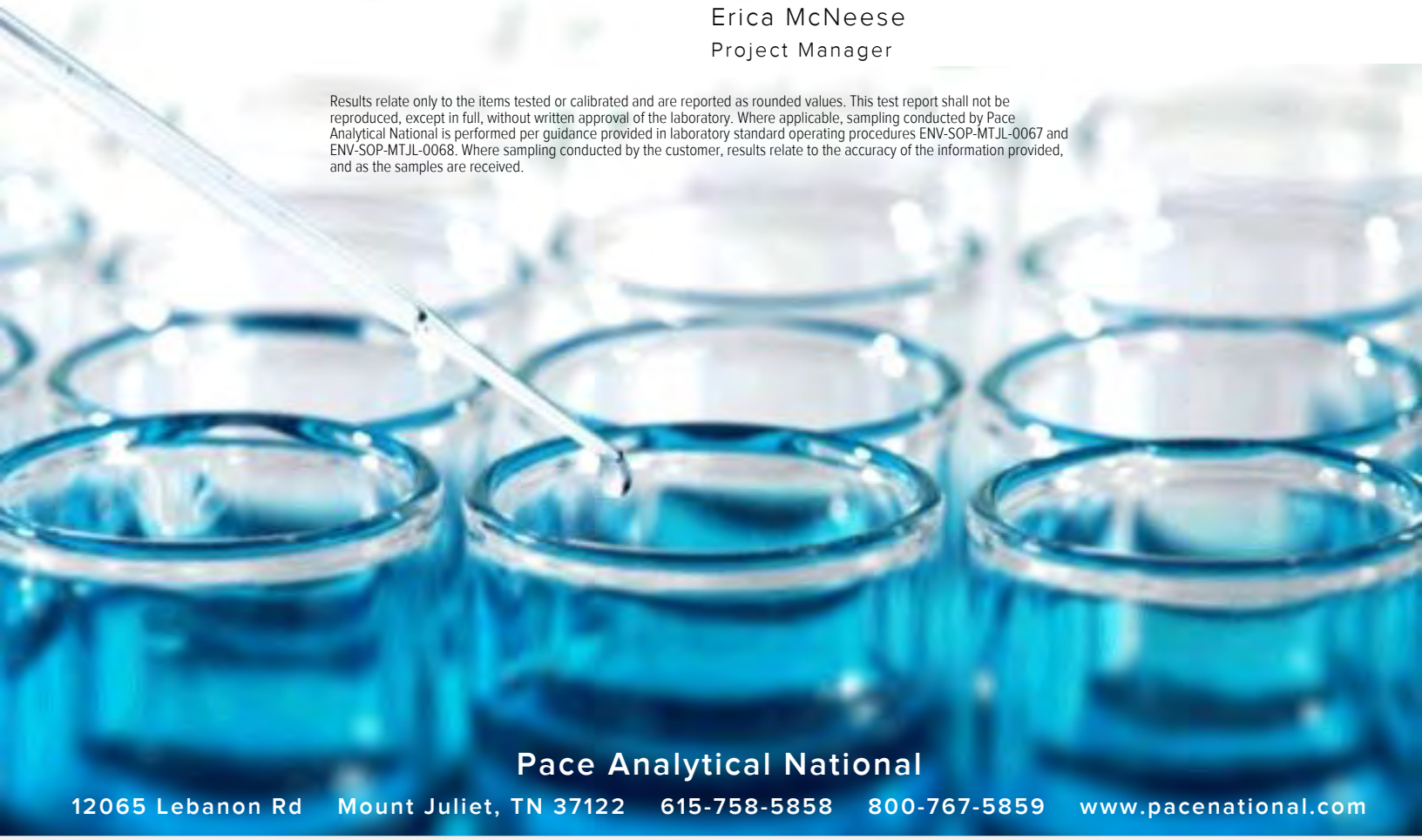
ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1314752
Samples Received:	02/06/2021
Project Number:	212C-MD-02334 TASK26
Description:	1RP-4361
Site:	LEA COUNTY, NEW MEXICO
Report To:	Christian Llull
	901 West Wall
	Suite 100
	Midland, TX 79701

Entire Report Reviewed By: Erica McNeese

Erica McNeese
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

BH 8 (0'-1') L1314752-01 Solid

Collected by: Adrian Garcia
Collected date/time: 02/05/21 11:00
Received date/time: 02/06/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1618803	1	02/11/21 09:34	02/11/21 09:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1619263	1	02/10/21 23:03	02/11/21 03:42	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1618378	1	02/07/21 00:17	02/09/21 12:18	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617635	1	02/07/21 00:17	02/17/21 16:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1619397	1	02/12/21 01:49	02/13/21 16:05	WCR	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Erica McNeese
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.5		1	02/11/2021 09:44	WG1618803

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	58.6		9.74	21.2	1	02/11/2021 03:42	WG1619263

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0847	B J	0.0230	0.106	1	02/09/2021 12:18	WG1618378
(S) a,a,a-Trifluorotoluene(FID)	*91.4*			*77.0-120*		*02/09/2021 12:18*	WG1618378

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000522	0.00112	1	02/17/2021 16:19	WG1617635
Toluene	U		0.00145	0.00559	1	02/17/2021 16:19	WG1617635
Ethylbenzene	U		0.000823	0.00279	1	02/17/2021 16:19	WG1617635
Total Xylenes	U		0.000983	0.00726	1	02/17/2021 16:19	WG1617635
(S) Toluene-d8	*93.0*			*75.0-131*		*02/17/2021 16:19*	WG1617635
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*		*02/17/2021 16:19*	WG1617635
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*02/17/2021 16:19*	WG1617635

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	14.8		1.70	4.23	1	02/13/2021 16:05	WG1619397
C28-C40 Oil Range	79.9		0.290	4.23	1	02/13/2021 16:05	WG1619397
(S) o-Terphenyl	*46.2*			*18.0-148*		*02/13/2021 16:05*	WG1619397

Method Blank (MB)

(MB) R3621893-1 02/11/21 09:44

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1314754-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1314754-04 02/11/21 09:44 • (DUP) R3621893-3 02/11/21 09:44

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.6	93.5	1	0.960		10

Laboratory Control Sample (LCS)

(LCS) R3621893-2 02/11/21 09:44

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3621520-1 02/11/21 02:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1315474-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1315474-01 02/11/21 04:01 • (DUP) R3621520-3 02/11/21 04:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	170	170	1	0.0824		20

L1315474-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1315474-16 02/11/21 07:39 • (DUP) R3621520-6 02/11/21 07:49

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	14.4	15.8	1	9.07	J	20

Laboratory Control Sample (LCS)

(LCS) R3621520-2 02/11/21 02:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	214	107	90.0-110	

L1315474-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1315474-10 02/11/21 06:00 • (MS) R3621520-4 02/11/21 06:10 • (MSD) R3621520-5 02/11/21 06:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	504	46.5	559	566	102	103	1	80.0-120			1.37	20

Method Blank (MB)

(MB) R3621524-2 02/09/21 05:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0688	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3621524-1 02/09/21 04:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.88	107	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

L1314322-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1314322-09 02/09/21 07:19 • (MS) R3621524-3 02/09/21 15:00 • (MSD) R3621524-4 02/09/21 15:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	139	1.16	164	160	117	114	25	10.0-151			2.43	28
(S) a,a,a-Trifluorotoluene(FID)					*108*	*120*		*77.0-120*				

Method Blank (MB)

(MB) R3622910-3 02/17/21 09:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*93.1*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3622910-1 02/17/21 07:52 • (LCSD) R3622910-2 02/17/21 08:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.145	0.138	116	110	70.0-123			4.95	20
Ethylbenzene	0.125	0.116	0.113	92.8	90.4	74.0-126			2.62	20
Toluene	0.125	0.122	0.118	97.6	94.4	75.0-121			3.33	20
Xylenes, Total	0.375	0.349	0.336	93.1	89.6	72.0-127			3.80	20
(S) Toluene-d8				*90.1*	*90.4*	*75.0-131*				
(S) 4-Bromofluorobenzene				*102*	*103*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*104*	*104*	*70.0-130*				

Method Blank (MB)

(MB) R3622239-1 02/13/21 01:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*98.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3622239-2 02/13/21 01:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	44.6	89.2	50.0-150	
(S) o-Terphenyl			*65.2*	*18.0-148*	

L1314732-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1314732-01 02/13/21 01:37 • (MS) R3622239-3 02/13/21 01:50 • (MSD) R3622239-4 02/13/21 02:03

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.9	U	53.4	49.6	87.7	81.7	1	50.0-150			7.43	20
(S) o-Terphenyl					*59.0*	*58.7*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN, 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

Pace Analytical National 1313 Point Mallard Parkway SE Suite B Decatur, AL, 35601

Alabama	40160
ANSI National Accreditation Board	L2239

Pace Analytical National 660 Bercut Dr. Ste. C Sacramento, CA, 95811

California	2961	Oregon	CA300002
Minnesota	006-999-465	Washington	C926
North Dakota	R-214		

Pace Analytical National 6000 South Eastern Avenue Ste 9A Las Vegas, NV, 89119

Nevada	NV009412021-1

Pace Analytical National 1606 E. Brazos Street Suite D Victoria, TX, 77901

Texas	T104704328-20-18

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

J102

Page : 1 of 1

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

L1314752

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	1RP-4361	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334 Task 26
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian Garcia

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
-01	BH 8 (0'-1')	2/52021	1100		X			X		1	N	X		X												X				

Relinquished by: Date: 2/5/21 Time: 13:00 — Received by: Date: 2-5-21 Time: 13:00

Relinquished by: Date: 2-5-21 Time: 14:30 — Received by: Date: 2-5-21 Time: 1430

Relinquished by: Date: Time: — Received by: Date: 2-6-21 Time: 1010

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

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 #: _____

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres.Correct/Check:	Y N
Sufficient	Y N		

NM 13 2321=22

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 208697

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 208697
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	• The request for variance for an alternative confirmation sampling plan is approved with conditions. Confirmation sidewall and floor samples will be representative of no more than approximately 400 square ft of excavated area.	5/1/2023
jharimon	Workplan/Remediation Plan is approved with the following conditions: • The elevated Chlorides and TPH in BH-2, BH-3and BH-7 should be addressed during the remediation process. • Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. • When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. • Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.	5/1/2023