SITE INFORMATION

Report Type: Closure Report (1RP-2531)

General Site Information:						
Site:	**Brown SWD #1**					
Company:	**EOG Resources**					
Section, Township and Range	**Unit H**	**Sec. 26**	**T 16S**	**R 37E**		
County:	**Lea County, NM**					
GPS:	**32.89495**			**-103.2138824**		
Surface Owner:	**State of New Mexico**					

Release Data:	
Date Released:	11/16/2010
Type Release:	Oil and Produced Water
Source of Contamination:	2" line on a knockout broke
Fluid Released:	18 bbls. Oil/Produced Water
Fluids Recovered:	18 bbls. of Oil/Produced Water

Official Communication:			
Name:	James Kennedy		Clair Gonzales
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr		901 West Wall Street
			Suite 100
City:	Midland, TX 79706		Midland, Texas 79701
Phone number:	432-686-7016		432-687-8634
Fax:			
Email:	James.Kennedy@eogresources.com		clair.gonzales@tetratech.com

Site Characterization	
Depth to Groundwater:	*109.54' below ground surface (bgs)*
Karst Potential:	*Low*

Recommended Remedial Action Levels (RRALs)			
Benzene	***Total BTEX***	***TPH (GRO+DRO+MRO)***	***Chlorides***
10 mg/kg	*50 mg/kg*	*2,500 mg/kg*	*20,000 mg/kg*

TETRA TECH

June 9, 2021

Bradford Billings
Hydrologist
District 2 Artesia
Oil Conservation Division
Santa Fe, NM 87505

Re: Closure Report
EOG Resources
Brown SWD #1
Unit H, Section 26, Township 16 South, Range 37 East
Lea County, New Mexico
1RP-2531

Mr. Billings:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release at the EOG Brown SWD #1 (API No. 30-025-29842). The release footprint is located in the Public Land Survey System (PLSS) Unit H, Section 26, Township 16 South, Range 37 East, Lea County, New Mexico (Site). The Site coordinates are 32.89495º, -103.2138824º. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release occurred on April 02, 2010 as a result of a 2-inch line on a knockout broke spilling oil and water. The release consisted of 18 barrels (bbls.) of oil and water affecting an area of approximate 20 feet (ft.) by 60 ft. The spill was contained with in the bermed area, around knockout. The initial C-141 report was submitted on April 06, 2010 to the New Mexico Oil Conservation District (NMOCD). The release was subsequently assigned the Remediation Permit (RP) number 1RP-2531. The C-141 forms are included in Appendix A.

Site Characterization

A site characterization was performed for the site, and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances, and the site is in a medium karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 25, approximately 0.4 mile Northeast of the site, and has a reported depth to groundwater of 109.54 feet (ft.) below ground surface (bgs.), the well was last gauged in 2014. In addition, according to the New Mexico Office of the State Engineer, there are nine (9) water wells within 800 meters (½ miles) radius. The average depth to groundwater is 90 ft. bgs. Site characterization data is included in Appendix B.

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

TETRA TECH

Regulatory

A risk-based evaluation was performed for the site per the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based on the site characterization, the proposed RRAL for TPH is 2,500 mg/kg (GRO+DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 20,000 mg/kg.

Soil Assessment and Analytical Results

Between February 25 and March 12, 2021, Tetra Tech personnel were on site to evaluate and sample the release area. The formerly impacted area was identified from the description in the C-141 and the aerial imagery. Soils were field screened for salinity using an Extech EC400 ExStik to determine sampling intervals. A total of five (5) auger holes (AH-1 through AH-5) were installed inside the release footprint to a total depth from surface to 0.5 ft. bgs. In addition, four (4) horizontals (H-1 through H-4) were collected in order to horizontally delineate the impact at a depth from top to 0.5 ft. bgs. A total of ten (10) samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3. Photographic documentation is included.

Referring to Table 1, the sample location AH-1 exceeded the site RRALs for chloride (600 mg/kg), and the sample locations AH-5 and H-4 exceeded the site RRALs for TPH (100 mg/kg). The additional samples were below the site RRALs for BTEX (50 m/kg) and benzene (10 mg/kg).

Remediation Activities

Between May 24 and 27, 2021, Tetra Tech personnel were on site to supervise the excavation and remediation activities in order to remove the impacted soil from the release area. The excavated areas are shown on Figure 4. The impacted areas were excavated to the appropriate depths, ranging in total depths of 5’ to 7’ below surface. Once the excavation was completed, confirmation samples were collected every 200 sq. ft. Six (6) bottom hole sample (BH-1 through BH-6) and eight (8) sidewall samples were collected in the excavation area. A total of fourteen (14) samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 2.

Referring to Table 2, the sample locations (BH-5 and BH-6) exceeded the Site RRALs for TPH (GRO+DRO 1,000 mg/kg). All of the additional samples were below the Site RRAL for chloride (20,000 mg/kg), TPH (2,500 mg/kg), BTEX (50 m/kg) and benzene (10 mg/kg).

On June 3, 2021, Tetra Tech personnel returned to the site to supervise additional excavation activities. The area at the sample locations BH-5 and BH-6 was excavated to a total

depth of 8 ft. bgs. and once was completed, two (2) bottom hole sample were collected at 8 ft. bgs. The collected sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 2.

Referring to Table 2, all the samples were below the Site RRAL for chloride (20,000 mg/kg), TPH (2,500 mg/kg), BTEX (50 m/kg) and benzene (10 mg/kg).

The excavation areas were backfilled with clean material to surface grade. Approximately 1,011 cubic yards of material was transported offsite for proper disposal.

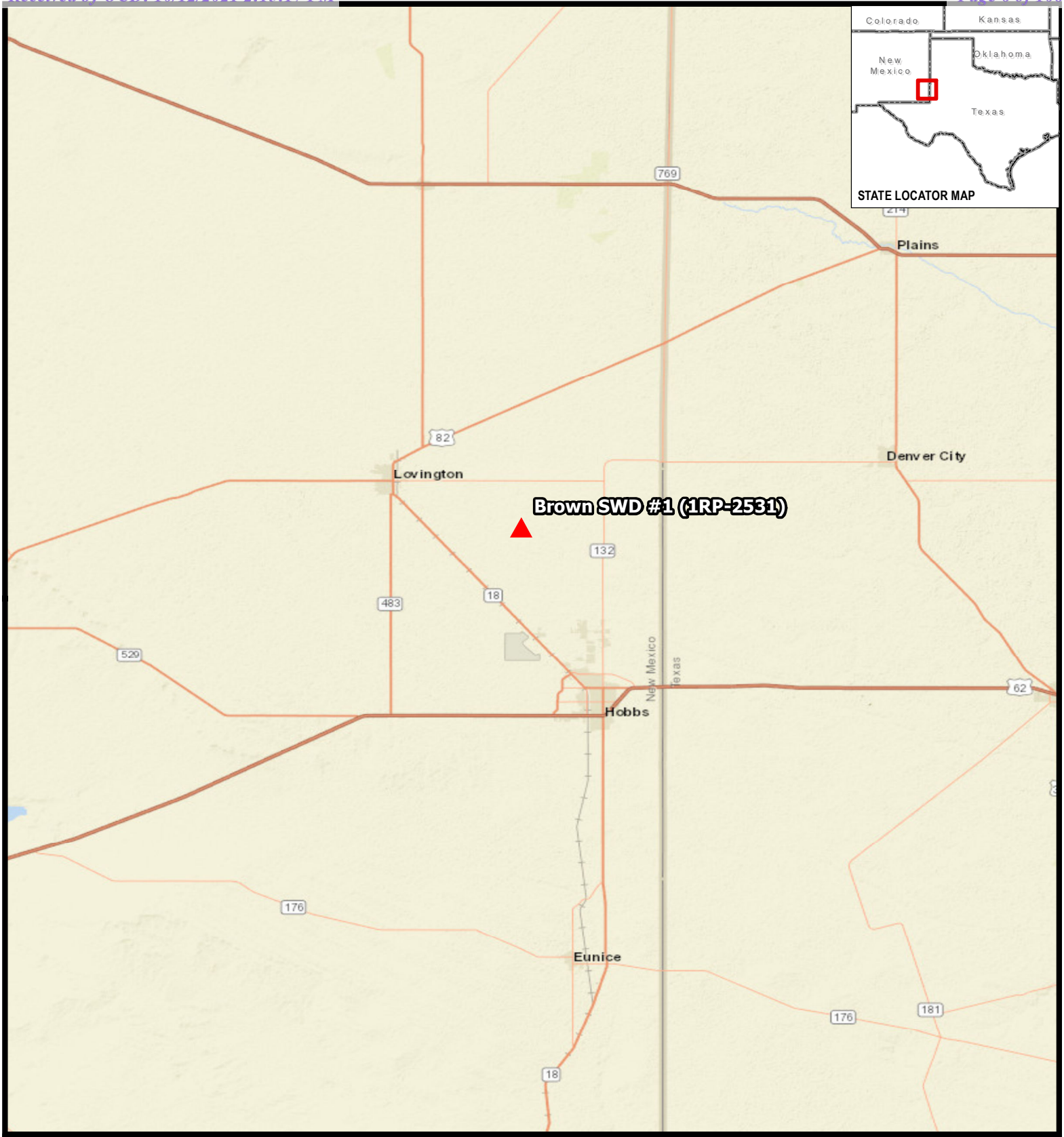
Conclusion

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

Respectfully submitted,
TETRA TECH

Paula Tocora Alonso
Paula Tocora Alonso
Environmental Engineer I
Tetra Tech, Inc

Figures



SITE LOCATION

N
W E
S

0 5 10 Miles
Approximate Scale in Miles

Service Layer Credits: ESRI Basemap - Streets, 2021.

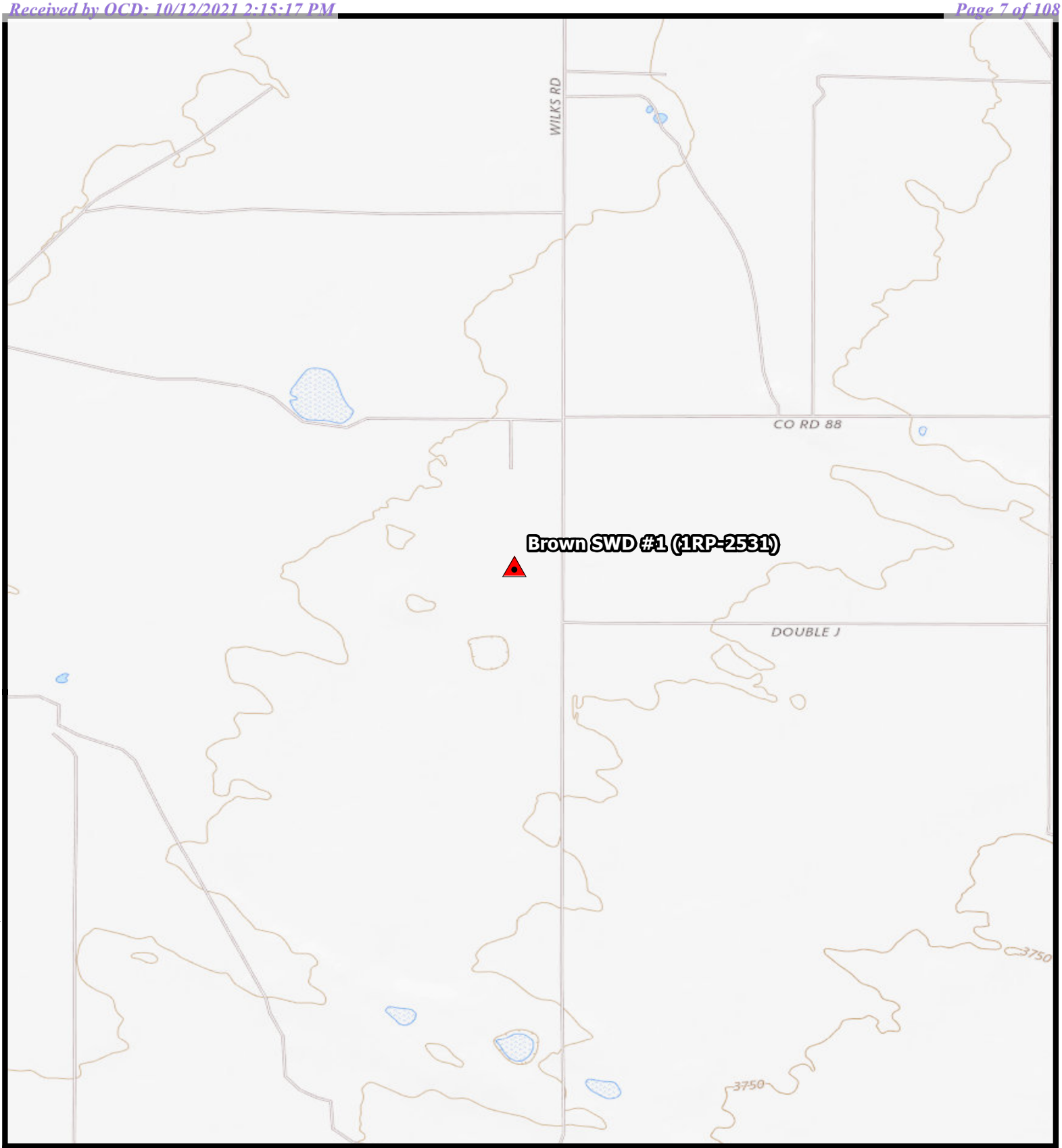
OVERVIEW MAP
BROWN SWD #1
Property located at coordinates 32.894971°, -103.2138824°
LEA COUNTY, NEW MEXICO

eog resources

Project #:
212C-MD-02419

FIGURE
1

Document Path: C:\Users\EMORENOFLORES\Documents\Projects\EOG\EOG - 02419 Historical sites\Task 2901 - Brown\GIS\MXD\Overview .mxd



SITE LOCATION

N
W E
S

0 500 1,000 2,000

Approximate Scale in Feet

Service Layer Credits: USGS, The National Map, Topo Base, 2021.

TOPOGRAPHIC MAP
BROWN SWD #1
Property located at coordinates 32.894971°, -103.2138824°
LEA COUNTY, NEW MEXICO

eog resources

Project #:
212C-MD-02419

FIGURE
2

Document Path: C:\Users\E.MORENOFLORES\Documents\Projects\EOG\EOG - 02419 Historical sites\Task 2901 - Brown\GIS\MXD\Topo .mxd

SAMPLE DESIGNATION	LATITUDE	LONGITUDE
AH-1	32.894530556°	-103.21388°
AH-2	32.894525°	-103.213972°
AH-3	32.894516667°	-103.214097°
AH-4	32.894536111°	-103.214251°
AH-5	32.894598°	-103.214269444°
H-1	32.894644444°	-103.213975°
H-2	32.894566°	-103.213768°
H-3	32.894502778°	-103.213953°
H-4	32.894591667°	-103.214299°

HORIZONTAL SAMPLE LOCATIONS

AUGERHOLE SAMPLE LOCATIONS

N
W E
S

0 10 20 40

Approximate Scale in Feet

Service Layer Credits: Google Maps.
ESRI Basemap - Imagery 2020.

SPILL ASSESSMENT MAP
BROWN SWD #1
Property located at coordinates 32.894971°, -103.2138824°
LEA COUNTY, NEW MEXICO

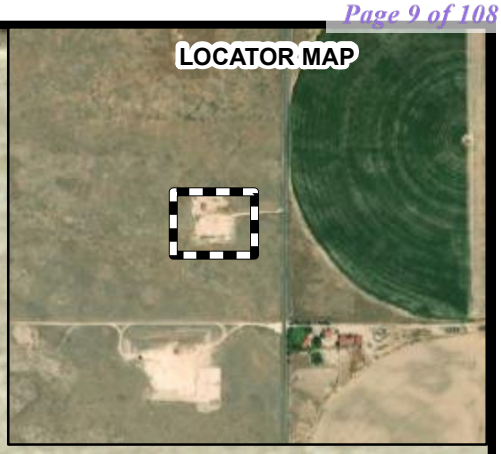
eog resources

Project #:
212C-MD-02419

FIGURE
3

Document Path: C:\Users\E.MORENO\FLORES\Documents\Projects\EOG\EOG - 02419 Historical sites\Task 2901 - Brown\GIS\MXD\Spill .mxd

SAMPLE DESIGNATION	LATITUDE	LONGITUDE
BH-1	32.894575126°	-103.214259914°
BH-2	32.894600089°	-103.214278753°
BH-3	32.894542609°	-103.213918579°
BH-5	32.894520492°	-103.21392401°
BH-4	32.89454156°	-103.213836649°
BH-6	32.894518539°	-103.213843969°
SW-1	32.894619226°	-103.21426904°
SW-2	32.894540898°	-103.214267051°
SW-4	32.894581363°	-103.214304759°
SW-3	32.894582578°	-103.214240491°
SW-8	32.894527004°	-103.213963718°
SW-7	32.894534617°	-103.213811986°
SW-5	32.894559814°	-103.213888441°
SW-6	32.894507746°	-103.213884898°



BH BOREHOLE SAMPLE LOCATIONS

SIDEWALL SAMPLE LOCATIONS

5' EXCAVATED DEPTH AREA

7' EXCAVATED DEPTH AREA

N
W E
S

0 10 20 40

Approximate Scale in Feet

Service Layer Credits: Google Maps.
ESRI Basemap - Imagery, 2020.

EXCAVATION AREA & DEPTH MAP
BROWN SWD #1
Property located at coordinates 32.894971°, -103.2138824°
LEA COUNTY, NEW MEXICO

eog resources

Project #:
212C-MD-02419

FIGURE
4

Document Path: C:\Users\E.MORENO\FLORES\Documents\Projects\EOG\EOG - 02419 Historical sites\Task 2901 - Brown\GIS\MXD\Excavation .mxd

Tables

Table 1
EOG
Brown SWD #1
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
AH-1	2/25/2021	0-0.5	X	-	<49.9	<49.9	60.8	60.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	**1,390**
AH-2	2/25/2021	0-0.5	X	-	<49.9	<49.9	55.6	55.6	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	44.9
AH-3	3/12/2021	0-0.5	X	-	<49.8	<49.8	50.7	50.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	541
AH-4	3/12/2021	0-0.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	74.8
AH-5	3/12/2021	0-0.5	X	-	<50.0	75.4	73.6	**149**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	131
H-1	3/12/2021	0-0.5	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	21.9
H-2	3/12/2021	0-0.5	X	-	<50.1	<50.1	<50.1	<50.1	0.00296	0.00451	<0.00200	0.0452	0.0527	9.43
H-3	3/12/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	12.6
H-4	3/12/2021	0-0.5	X	-	89.6	**785**	**265**	**1,140**	0.00277	0.00486	0.0169	<0.00398	0.0245	8.73

(-) Not Analyzed

Exceeded RRALs

Table 2
EOG
Brown SWD #1
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
BH-1	5/27/2021	-	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6,000
BH-2	5/27/2021	-	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	3,330
BH-3	5/27/2021	-	7'	X	-	<49.8	359	62.9	422	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	4,190
BH-4	5/27/2021	-	7'	X	-	<49.9	295	<49.9	295	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,050
BH-5	5/27/2021	-	7'	X	-	<49.9	**1,410**	187	1,600	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	1,110
BH-5	6/3/2021	-	8'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,530
BH-6	5/27/2021	-	7'	X	-	<49.9	**1,920**	264	2,180	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,620
BH-6	6/3/2021	-	8'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,450
SW-1	5/27/2021	-	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	202
SW-2	5/27/2021	-	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,020
SW-3	5/27/2021	-	5'	X	-	<49.8	<49.8	<49.8	<49.8	0.00220	<0.00202	<0.00202	<0.00403	<0.00403	1,200
SW-4	5/27/2021	-	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	4,260
SW-5	5/27/2021	-	7'	X	-	<49.8	278	<49.8	278	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,200
SW-6	5/27/2021	-	7'	X	-	<49.9	229	<49.9	229	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,080
SW-7	5/27/2021	-	7'	X	-	<50.0	90.7	<50.0	90.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,020
SW-8	5/27/2021	-	7'	X	-	<49.9	964	144	1,110	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	754

(-) Not Analyzed
Excavated

Photos

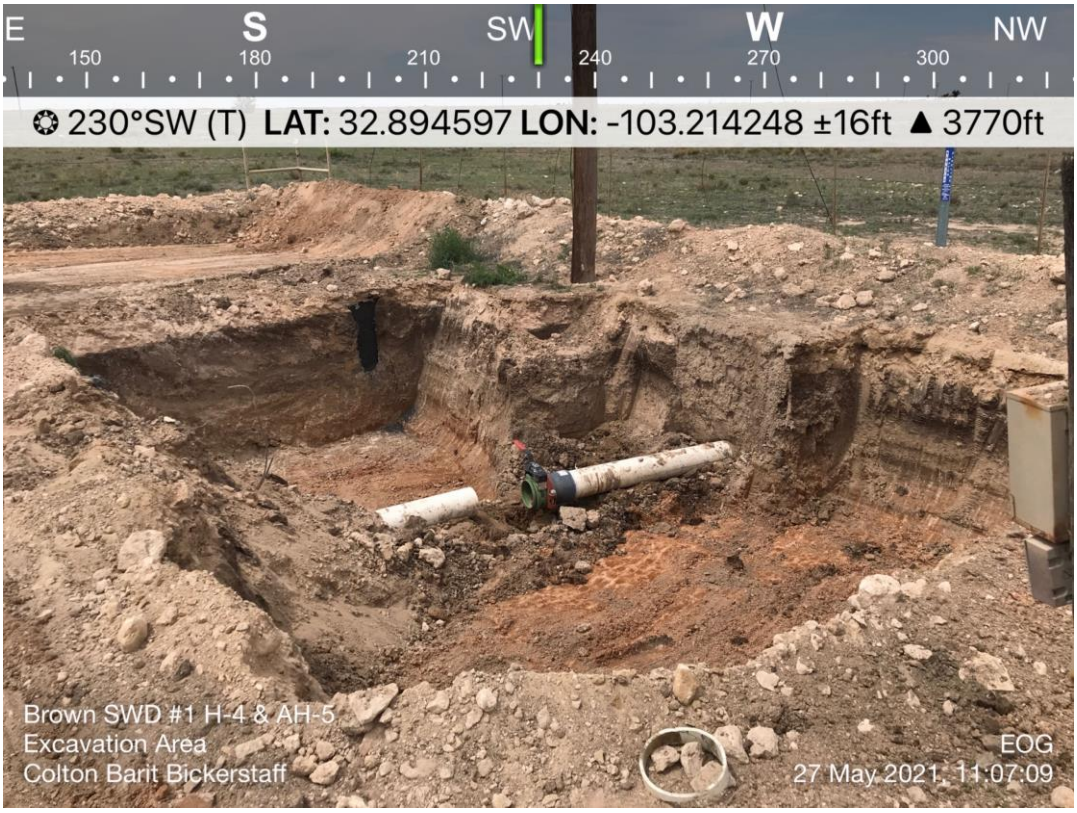
EOG Resources
Brown SWD #1
Lea County, New Mexico

View of Remediation Activities – View East

View of Remediation Activities – View Northeast

EOG Resources
Brown SWD #1
Lea County, New Mexico

TETRA TECH



View of Remediation Activities – View Southwest

View of Remediation Activities – View South

Appendix A

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	OGRID Number	Contact
Yates Petroleum Corporation	25575	Amanda Trujillo
Address		Telephone No.
104 S. 4TH Street		575-748-1471
Facility Name	API Number	Facility Type / Order Number
Berry APN State #1	30-025-29842	OIL / 2RP-

Surface Owner	Mineral Owner	Lease No.
State	State	V- 3524

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
T	5	21S	34E	1980	SOUTH	660	WEST	Lea

Latitude_____Longitude___

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Oil	18	18
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
2" line on a knockout broke spilling oil and water	04/02/2010 6:00 am	04/02/2010 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoffrey Leking – NMOCD/Hobbs	
By Whom? Amanda Trujillo – Yates Petroleum Corporation	Date and Hour 04/07/2010 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A WATER @ 911

Describe Cause of Problem and Remedial Action Taken.*
2" line on a knockout broke spilling oil and water. Well was shut in while necessary maintenance was performed and vacuum truck was called, to pick up standing fluid.

Describe Area Affected and Cleanup Action Taken.*
An approximate size of 20' x 60' was impacted. The spill was contained with in the bermed area, around knockout. A vacuum truck was called immediately. They picked up all free standing fluid. Contaminated soil was also dug up and deposed of at an NMOCD approved facility. Vertical and horizontal delineation samples will taken and analysis ran for TPH, BTEX and Chlorides. **Depth to Ground Water: <50' (approx. 30', per New Mexico Office of the State Engineer); Wellhead Protection Area: No; Distance to Surface Water Body: <1000'; SITE RANKING IS 20. Based on site ground water quality and enclosed analytical results.**

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: A Trujillo	**OIL CONSERVATION DIVISION**
Printed Name: Amanda Trujillo	Approved by ~~District Supervisor~~: ENV ENGINEER. Geoffrey Leking
Title: Environmental Scientist	Approval Date: 05/18/10 Expiration Date: 07/19/10
E-mail Address: atrujillo@yatespetroleum.com	Conditions of Approval: SUBMIT FINAL C-141 BY 07/19/10 Attached ☐ IRP-10-5-2536
Date: Tuesday, April 06, 2010 Phone: 575-748-4310	

* Attach Additional Sheets If Necessary

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: James F. Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: James F. Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

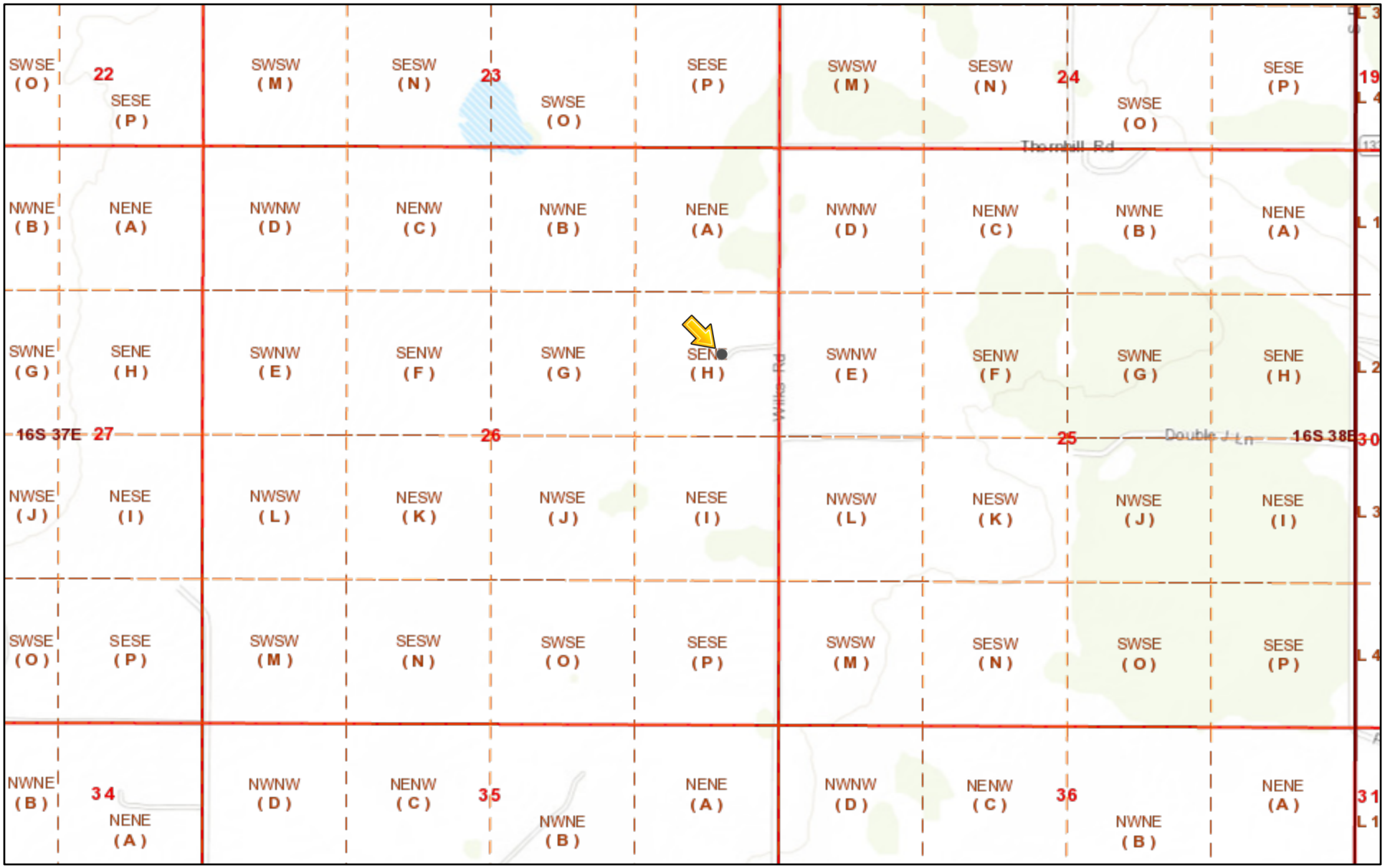
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: Bradford Billings Date: 11/01/2021

Printed Name: Bradford Billings Title: Envi. Spec.A

Appendix B

1RP-2531



3/23/2021, 8:52:58 PM

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Override 1

OCD District Offices

PLSS First Division

PLSS Second Division

PLSS Townships

OSE Streams

PLJV Probable Playas

OSE Water-bodies

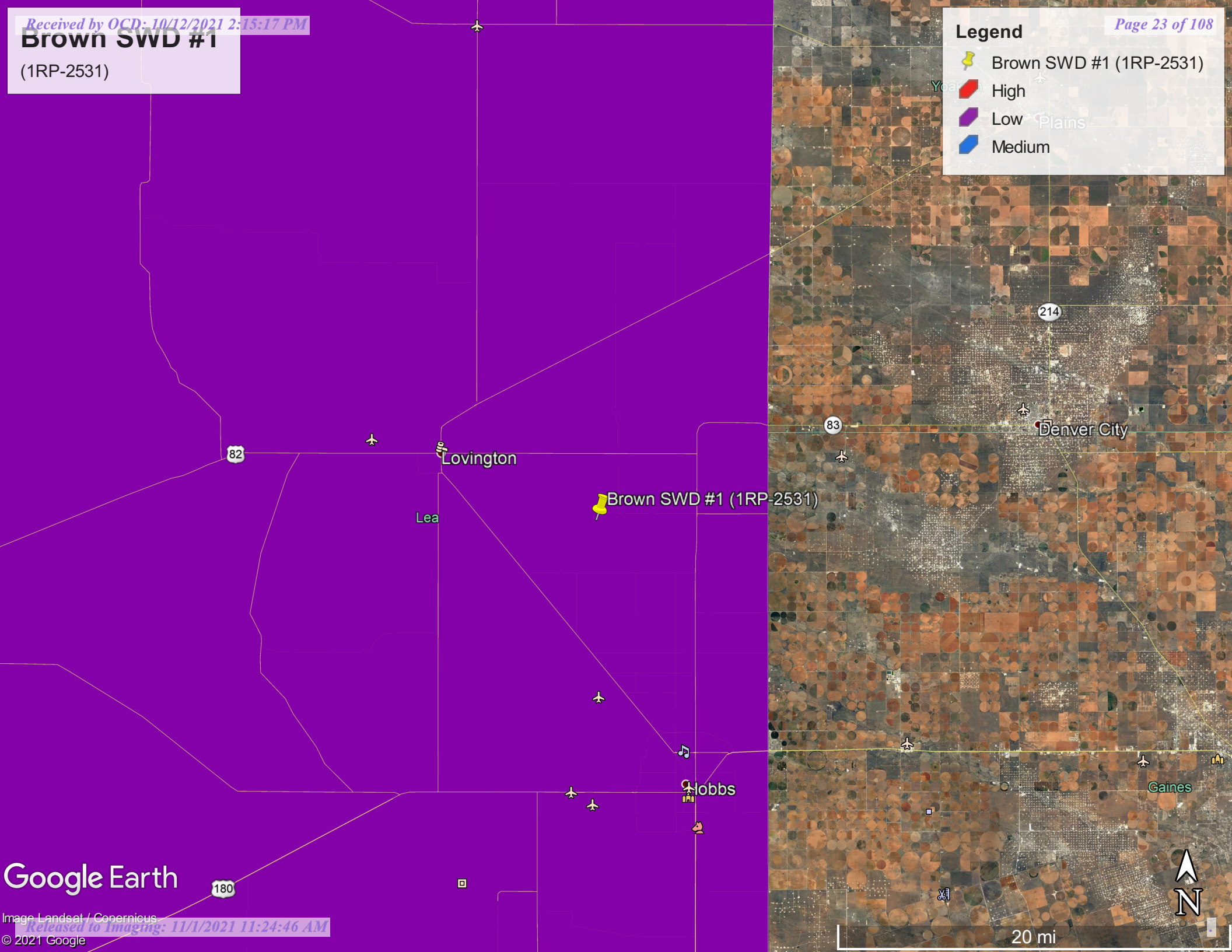
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin,

New Mexico Oil Conservation Division

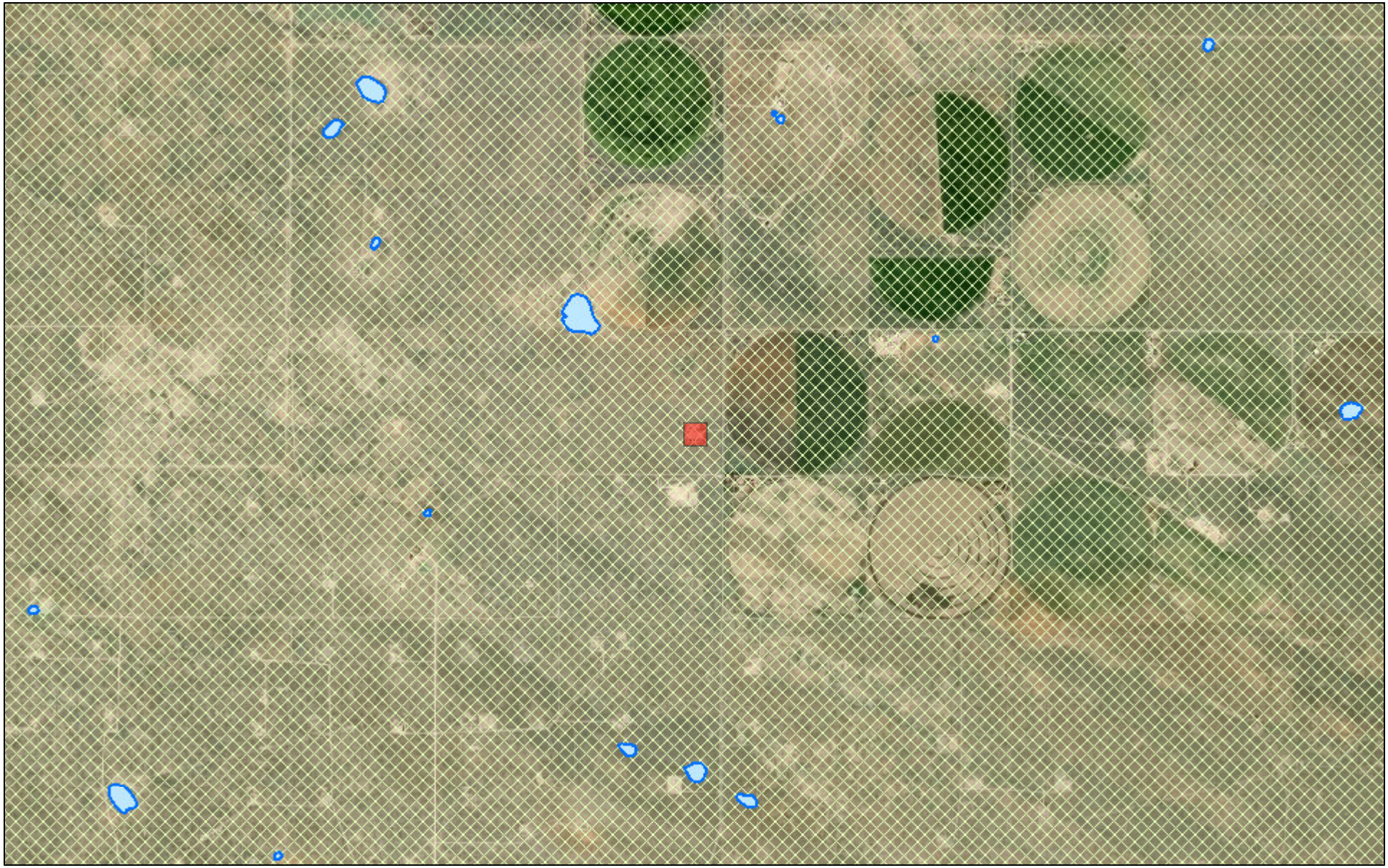
NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

Brown SWD #1

(1RP-2531)



New Mexico NFHL Data



March 23, 2021

1:36,112

0 0.3 0.6 1.2 mi

0 0.5 1 2 km

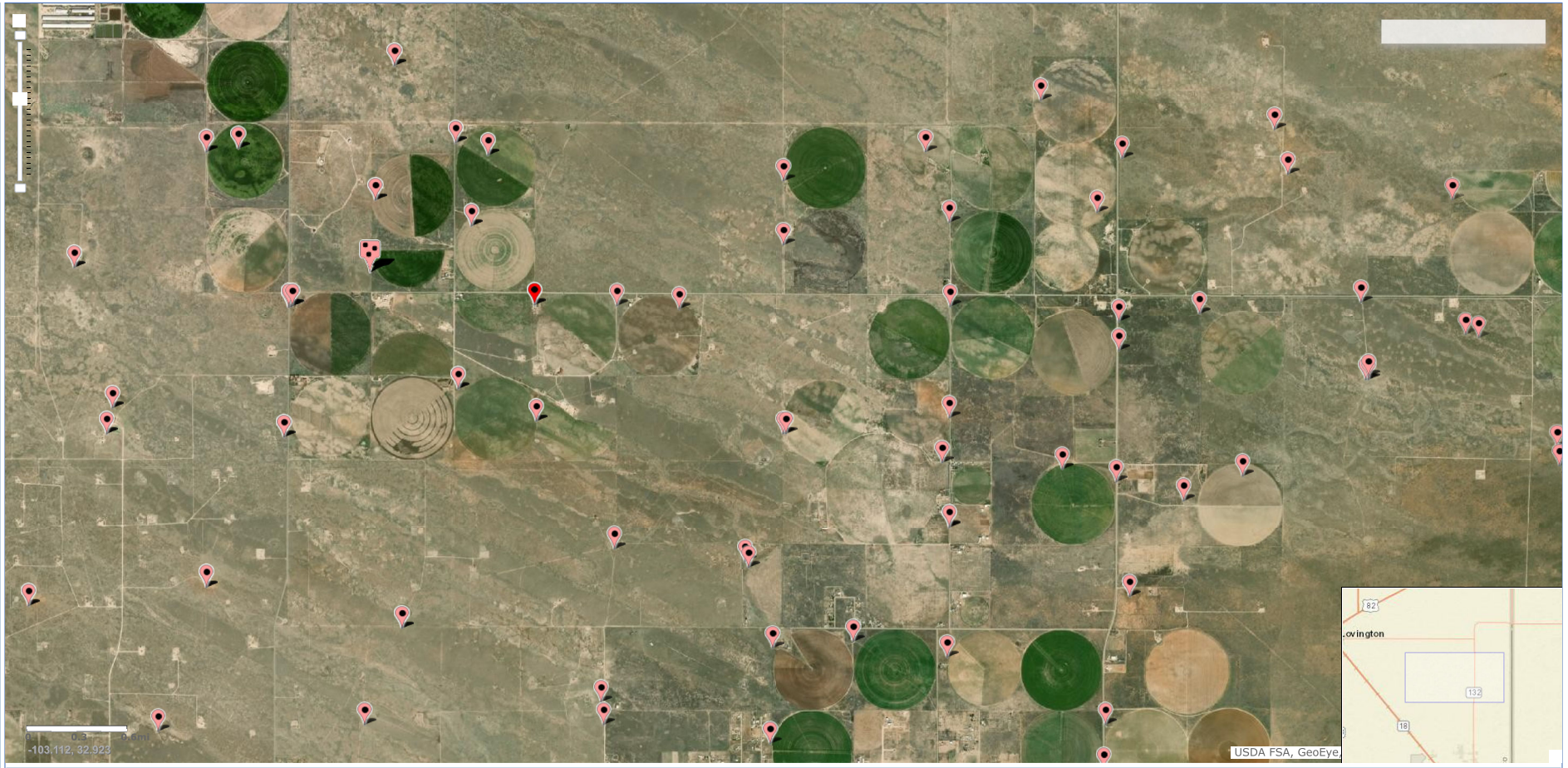
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

USGS science for a changing world

USGS Home
Contact USGS
Search USGS

National Water Information System: Mapper

Help Info



Site Information

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 14025 POD1		L	LE	1	1	3	25	16S	37E	667298	3640818	334	170	98	72
L 05045		L	LE		2	2	26	16S	37E	667015	3641425*	373	102	56	46
L 00687		L	LE	1	1	3	25	16S	37E	667330	3640724	426	175	100	75
L 00686 S		L	LE	2	3	1	25	16S	37E	667523	3641126*	467	157	95	62
L 00686 POD5		L	LE	1	1	1	25	16S	37E	667317	3641529*	538	193		
L 00686 S2	R	L	LE	1	1	1	25	16S	37E	667317	3641529*	538	115		
L 09613		L	LE			1	25	16S	37E	667625	3641228*	589	138	75	63
L 00686 POD3		L	LE			1	25	16S	37E	667628	3641243	597	175	110	65
L 00687 S	R	L	LE	1	3	3	25	16S	37E	667336	3640321	783	184	100	84

Average Depth to Water: **90 feet**

Minimum Depth: **56 feet**

Maximum Depth: **110 feet**

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 667061.16 **Northing (Y):** 3641054.75 **Radius:** 800

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

3/23/21 8:26 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

USGS
science for a changing world

National Water Information System: Web Interface

USGS Water Resources

USGS Home
Contact USGS
Search USGS

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

- Explore the **NEW** USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 325350103123501

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

USGS 325350103123501 16S.37E.25.111113

Lea County, New Mexico
Latitude 32°53'59.0", Longitude 103°12'43.0" NAD83
Land-surface elevation 3,767.00 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1979-01-05		D	62610		3702.10	NGVD29	1	Z			A
1979-01-05		D	62611		3703.36	NAVD88	1	Z			A
1979-01-05		D	72019	64.90			1	Z			A
1979-01-06		D	62610		3702.10	NGVD29	1	Z			A
1979-01-06		D	62611		3703.36	NAVD88	1	Z			A
1979-01-06		D	72019	64.90			1	Z			A
1980-01-04		D	62610		3701.28	NGVD29	1	Z			A
1980-01-04		D	62611		3702.54	NAVD88	1	Z			A
1980-01-04		D	72019	65.72			1	Z			A
1981-01-06		D	62610		3699.90	NGVD29	1	S			A
1981-01-06		D	62611		3701.16	NAVD88	1	S			A
1981-01-06		D	72019	67.10			1	S			A
1982-01-05		D	62610		3697.09	NGVD29	1	Z			A
1982-01-05		D	62611		3698.35	NAVD88	1	Z			A
1982-01-05		D	72019	69.91			1	Z			A
1983-01-04		D	62610		3693.74	NGVD29	1	Z			A
1983-01-04		D	62611		3695.00	NAVD88	1	Z			A
1983-01-04		D	72019	73.26			1	Z			A
1984-01-05		D	62610		3691.67	NGVD29	1	Z			A
1984-01-05		D	62611		3692.93	NAVD88	1	Z			A
1984-01-05		D	72019	75.33			1	Z			A
1985-01-08		D	62610		3691.96	NGVD29	1	Z			A
1985-01-08		D	62611		3693.22	NAVD88	1	Z			A
1985-01-08		D	72019	75.04			1	Z			A
1986-01-09		D	62610		3695.65	NGVD29	1	Z			A
1986-01-09		D	62611		3696.91	NAVD88	1	Z			A
1986-01-09		D	72019	71.35			1	Z			A
1987-01-07		D	62610		3698.05	NGVD29	1	Z			A
1987-01-07		D	62611		3699.31	NAVD88	1	Z			A
1987-01-07		D	72019	68.95			1	Z			A
1988-01-08		D	62610		3699.19	NGVD29	1	Z			A
1988-01-08		D	62611		3700.45	NAVD88	1	Z			A
1988-01-08		D	72019	67.81			1	Z			A
1989-01-04		D	62610		3697.59	NGVD29	1	Z			A
1989-01-04		D	62611		3698.85	NAVD88	1	Z			A
1989-01-04		D	72019	69.41			1	Z			A
1990-01-04		D	62610		3697.75	NGVD29	1	Z			A
1990-01-04		D	62611		3699.01	NAVD88	1	Z			A
1990-01-04		D	72019	69.25			1	Z			A
1991-01-04		D	62610		3692.68	NGVD29	1	Z			A
1991-01-04		D	62611		3693.94	NAVD88	1	Z			A
1991-01-04		D	72019	74.32			1	Z			A
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1992-01-04		D	62611		3691.85	NAVD88	1	Z			A
1992-01-04		D	72019	76.41			1	Z			A
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1993-01-06		D	62611		3692.87	NAVD88	1	Z			A
1993-01-06		D	72019	75.39			1	Z			A
1994-01-06		D	62610		3689.27	NGVD29	1	Z			A
1994-01-06		D	62611		3690.53	NAVD88	1	Z			A
1994-01-06		D	72019	77.73			1	Z			A
1995-01-06		D	62610		3688.18	NGVD29	1	S			A
1995-01-06		D	62611		3689.44	NAVD88	1	S			A
1995-01-06		D	72019	78.82			1	S			A
1996-01-16		D	62610		3686.29	NGVD29	1	S			A
1996-01-16		D	62611		3687.55	NAVD88	1	S			A
1996-01-16		D	72019	80.71			1	S			A
1997-01-03		D	62610		3687.54	NGVD29	1	Z			A
1997-01-03		D	62611		3688.80	NAVD88	1	Z			A
1997-01-03		D	72019	79.46			1	Z			A
1998-01-06		D	62610		3688.20	NGVD29	1	S			A
1998-01-06		D	62611		3689.46	NAVD88	1	S			A
1998-01-06		D	72019	78.80			1	S			A
2000-01-04		D	62610		3684.69	NGVD29	1	S			A
2000-01-04		D	62611		3685.95	NAVD88	1	S			A
2000-01-04		D	72019	82.31			1	S			A
2001-01-02		D	62610		3684.12	NGVD29	1	S	USGS	S	A
2001-01-02		D	62611		3685.38	NAVD88	1	S	USGS	S	A
2001-01-02		D	72019	82.88			1	S	USGS	S	A
2002-01-04		D	62610		3684.57	NGVD29	1	S	USGS	S	A
2002-01-04		D	62611		3685.83	NAVD88	1	S	USGS	S	A
2002-01-04		D	72019	82.43			1	S	USGS	S	A
2003-01-06		D	62610		3682.22	NGVD29	1	S	USGS	S	A
2003-01-06		D	62611		3683.48	NAVD88	1	S	USGS	S	A
2003-01-06		D	72019	84.78			1	S	USGS	S	A
2004-01-09		D	62610		3676.00	NGVD29	1	S	USGS	S	A
2004-01-09		D	62611		3677.26	NAVD88	1	S	USGS	S	A
2004-01-09		D	72019	91.00			1	S	USGS	S	A
2005-01-05	19:00 UTC	m	62610		3680.53	NGVD29	1	S	USGS	S	A
2005-01-05	19:00 UTC	m	62611		3681.79	NAVD88	1	S	USGS	S	A
2005-01-05	19:00 UTC	m	72019	86.47			1	S	USGS	S	A
2006-01-10	14:50 UTC	m	62610		3682.45	NGVD29	1	S	USGS	S	A
2006-01-10	14:50 UTC	m	62611		3683.71	NAVD88	1	S	USGS	S	A
2006-01-10	14:50 UTC	m	72019	84.55			1	S	USGS	S	A
2007-01-10	00:00 UTC	m	62610		3681.18	NGVD29	1	S	USGS	S	A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
2007-01-10	00:00 UTC	m	62611		3682.44	NAVD88	1	S	USGS	S	A
2007-01-10	00:00 UTC	m	72019	85.82			1	S	USGS	S	A
2007-12-18		D	62610		3680.86	NGVD29	1	S	USGS	S	A
2007-12-18		D	62611		3682.12	NAVD88	1	S	USGS	S	A
2007-12-18		D	72019	86.14			1	S	USGS	S	A
2008-12-16	16:18 UTC	m	62610		3683.18	NGVD29	1	S	USGS	S	A
2008-12-16	16:18 UTC	m	62611		3684.44	NAVD88	1	S	USGS	S	A
2008-12-16	16:18 UTC	m	72019	83.82			1	S	USGS	S	A
2009-12-17	20:50 UTC	m	62610		3678.47	NGVD29	1	S	USGS	S	A
2009-12-17	20:50 UTC	m	62611		3679.73	NAVD88	1	S	USGS	S	A
2009-12-17	20:50 UTC	m	72019	88.53			1	S	USGS	S	A
2010-12-14	22:30 UTC	m	62610		3658.92	NGVD29	1	S	USGS	S	A
2010-12-14	22:30 UTC	m	62611		3660.18	NAVD88	1	S	USGS	S	A
2010-12-14	22:30 UTC	m	72019	108.08			1	S	USGS	S	A
2011-12-21	22:45 UTC	m	62610		3675.20	NGVD29	1	S	USGS	S	A
2011-12-21	22:45 UTC	m	62611		3676.46	NAVD88	1	S	USGS	S	A
2011-12-21	22:45 UTC	m	72019	91.80			1	S	USGS	S	A
2013-12-12	22:45 UTC	m	62610		3656.77	NGVD29	1	S	USGS	S	A
2013-12-12	22:45 UTC	m	62611		3658.03	NAVD88	1	S	USGS	S	A
2013-12-12	22:45 UTC	m	72019	110.23			1	S	USGS	S	A
2014-12-17	22:30 UTC	m	62610		3657.46	NGVD29	1	S	USGS	S	A
2014-12-17	22:30 UTC	m	62611		3658.72	NAVD88	1	S	USGS	S	A
2014-12-17	22:30 UTC	m	72019	109.54			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Appendix C

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-1307-1
Laboratory Sample Delivery Group: Lea County New Mexico
Client Project/Site: Brown SWD #1

For:
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Attn: Clair Gonzales

JKramer

Authorized for release by:
4/15/2021 6:24:08 PM

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

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

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

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Laboratory Job ID: 880-1307-1
SDG: Lea County New Mexico

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-1307-1
Project/Site: Brown SWD #1 SDG: Lea County New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Job ID: 880-1307-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1307-1

Receipt
The samples were received on 4/14/2021 4:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-1 (880-1307-1), AH-2 (880-1307-2) and AH-3 (880-1307-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-5 (880-1307-5), H-1 (880-1307-6), H-2 (880-1307-7) and H-4 (880-1307-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-1802 and analytical batch 880-1775 recovered outside control limits for the following analytes: < Gasoline Range Organics (GRO)-C6-C10>.

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

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Client Sample ID: AH-1

Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/14/21 17:15	04/15/21 02:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/14/21 17:15	04/15/21 02:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/14/21 17:15	04/15/21 02:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/14/21 17:15	04/15/21 02:47	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		04/14/21 17:15	04/15/21 02:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/14/21 17:15	04/15/21 02:47	1
Total BTEX	<0.00198	U *1	0.00198		mg/Kg		04/14/21 17:15	04/15/21 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/14/21 17:15*	*04/15/21 02:47*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*04/14/21 17:15*	*04/15/21 02:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/14/21 17:20	04/15/21 00:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/14/21 17:20	04/15/21 00:21	1
Oil Range Organics (Over C28-C36)	**60.8**		49.9		mg/Kg		04/14/21 17:20	04/15/21 00:21	1
Total TPH	**60.8**		49.9		mg/Kg		04/14/21 17:20	04/15/21 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*04/14/21 17:20*	*04/15/21 00:21*	*1*
o-Terphenyl	*86*		*70 - 130*	*04/14/21 17:20*	*04/15/21 00:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1390**		25.0		mg/Kg			04/15/21 12:07	5

Client Sample ID: AH-2

Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/14/21 17:15	04/15/21 03:07	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/14/21 17:15	04/15/21 03:07	1
Total BTEX	<0.00202	U *1	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/14/21 17:15*	*04/15/21 03:07*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/14/21 17:15*	*04/15/21 03:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/14/21 17:20	04/15/21 00:42	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Client Sample ID: AH-2

Lab Sample ID: 880-1307-2
Matrix: Solid
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/14/21 17:20	04/15/21 00:42	1
Oil Range Organics (Over C28-C36)	**55.6**		49.9		mg/Kg		04/14/21 17:20	04/15/21 00:42	1
Total TPH	**55.6**		49.9		mg/Kg		04/14/21 17:20	04/15/21 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*04/14/21 17:20*	*04/15/21 00:42*	*1*
o-Terphenyl	*89*		*70 - 130*	*04/14/21 17:20*	*04/15/21 00:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.9**		4.99		mg/Kg			04/15/21 12:12	1

Client Sample ID: AH-3

Lab Sample ID: 880-1307-3
Matrix: Solid
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/14/21 17:15	04/15/21 03:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/14/21 17:15	04/15/21 03:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/14/21 17:15	04/15/21 03:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/14/21 17:15	04/15/21 03:27	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		04/14/21 17:15	04/15/21 03:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/14/21 17:15	04/15/21 03:27	1
Total BTEX	<0.00199	U *1	0.00199		mg/Kg		04/14/21 17:15	04/15/21 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/14/21 17:15*	*04/15/21 03:27*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/14/21 17:15*	*04/15/21 03:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/14/21 17:20	04/15/21 01:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/14/21 17:20	04/15/21 01:03	1
Oil Range Organics (Over C28-C36)	**50.7**		49.8		mg/Kg		04/14/21 17:20	04/15/21 01:03	1
Total TPH	**50.7**		49.8		mg/Kg		04/14/21 17:20	04/15/21 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/14/21 17:20*	*04/15/21 01:03*	*1*
o-Terphenyl	*87*		*70 - 130*	*04/14/21 17:20*	*04/15/21 01:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**541**		5.01		mg/Kg			04/15/21 12:17	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Client Sample ID: AH-4

Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/14/21 17:15	04/15/21 03:48	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:48	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/14/21 17:15	04/15/21 03:48	1
Total BTEX	<0.00202	U *1	0.00202		mg/Kg		04/14/21 17:15	04/15/21 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/14/21 17:15*	*04/15/21 03:48*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/14/21 17:15*	*04/15/21 03:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/14/21 17:20	04/15/21 01:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/14/21 17:20	04/15/21 01:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/14/21 17:20	04/15/21 01:25	1
Total TPH	<49.8	U	49.8		mg/Kg		04/14/21 17:20	04/15/21 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*04/14/21 17:20*	*04/15/21 01:25*	*1*
o-Terphenyl	*86*		*70 - 130*	*04/14/21 17:20*	*04/15/21 01:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.8**		5.01		mg/Kg			04/15/21 12:22	1

Client Sample ID: AH-5

Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/14/21 14:45	04/15/21 06:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/14/21 14:45	04/15/21 06:23	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/14/21 14:45*	*04/15/21 06:23*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/14/21 14:45*	*04/15/21 06:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/14/21 17:20	04/15/21 01:46	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Client Sample ID: AH-5

Lab Sample ID: 880-1307-5
Matrix: Solid
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	75.4		50.0		mg/Kg		04/14/21 17:20	04/15/21 01:46	1
Oll Range Organics (Over C28-C36)	73.6		50.0		mg/Kg		04/14/21 17:20	04/15/21 01:46	1
Total TPH	149		50.0		mg/Kg		04/14/21 17:20	04/15/21 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*04/14/21 17:20*	*04/15/21 01:46*	*1*
o-Terphenyl	*83*		*70 - 130*	*04/14/21 17:20*	*04/15/21 01:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		5.01		mg/Kg			04/15/21 12:27	1

Client Sample ID: H-1

Lab Sample ID: 880-1307-6
Matrix: Solid
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/14/21 14:45	04/15/21 06:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/14/21 14:45	04/15/21 06:43	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/14/21 14:45*	*04/15/21 06:43*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/14/21 14:45*	*04/15/21 06:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/14/21 17:20	04/15/21 02:07	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/14/21 17:20	04/15/21 02:07	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/14/21 17:20	04/15/21 02:07	1
Total TPH	<50.1	U	50.1		mg/Kg		04/14/21 17:20	04/15/21 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*04/14/21 17:20*	*04/15/21 02:07*	*1*
o-Terphenyl	*91*		*70 - 130*	*04/14/21 17:20*	*04/15/21 02:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.9		4.99		mg/Kg			04/15/21 12:32	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Client Sample ID: H-2

Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00296**		0.00200		mg/Kg		04/14/21 14:45	04/15/21 07:04	1
Toluene	**0.00451**		0.00200		mg/Kg		04/14/21 14:45	04/15/21 07:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 07:04	1
m-Xylene & p-Xylene	**0.00991**		0.00399		mg/Kg		04/14/21 14:45	04/15/21 07:04	1
o-Xylene	**0.0353**		0.00200		mg/Kg		04/14/21 14:45	04/15/21 07:04	1
Xylenes, Total	**0.0452**		0.00399		mg/Kg		04/14/21 14:45	04/15/21 07:04	1
Total BTEX	**0.0527**		0.00200		mg/Kg		04/14/21 14:45	04/15/21 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*04/14/21 14:45*	*04/15/21 07:04*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*04/14/21 14:45*	*04/15/21 07:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/14/21 17:00	04/15/21 05:51	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/14/21 17:00	04/15/21 05:51	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/14/21 17:00	04/15/21 05:51	1
Total TPH	<50.1	U	50.1		mg/Kg		04/14/21 17:00	04/15/21 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*04/14/21 17:00*	*04/15/21 05:51*	*1*
o-Terphenyl	*95*		*70 - 130*	*04/14/21 17:00*	*04/15/21 05:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.43**		4.95		mg/Kg			04/15/21 11:59	1

Client Sample ID: H-3

Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/14/21 14:45	04/15/21 07:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/14/21 14:45	04/15/21 07:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/14/21 14:45	04/15/21 07:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/14/21 14:45	04/15/21 07:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/14/21 14:45	04/15/21 07:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/14/21 14:45	04/15/21 07:25	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		04/14/21 14:45	04/15/21 07:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/14/21 14:45*	*04/15/21 07:25*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/14/21 14:45*	*04/15/21 07:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+ *1	50.0		mg/Kg		04/14/21 17:00	04/15/21 05:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Client Sample ID: H-3

Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/14/21 17:00	04/15/21 05:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/21 17:00	04/15/21 05:30	1
Total TPH	<50.0	U	50.0		mg/Kg		04/14/21 17:00	04/15/21 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*04/14/21 17:00*	*04/15/21 05:30*	*1*
o-Terphenyl	*96*		*70 - 130*	*04/14/21 17:00*	*04/15/21 05:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.6**		5.00		mg/Kg			04/15/21 12:05	1

Client Sample ID: H-4

Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-9
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00277**		0.00199		mg/Kg		04/14/21 14:45	04/15/21 07:45	1
Toluene	**0.00486**		0.00199		mg/Kg		04/14/21 14:45	04/15/21 07:45	1
Ethylbenzene	**0.0169**		0.00199		mg/Kg		04/14/21 14:45	04/15/21 07:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/14/21 14:45	04/15/21 07:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/14/21 14:45	04/15/21 07:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/14/21 14:45	04/15/21 07:45	1
Total BTEX	**0.0245**		0.00199		mg/Kg		04/14/21 14:45	04/15/21 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*241*	*S1+*	*70 - 130*	*04/14/21 14:45*	*04/15/21 07:45*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*04/14/21 14:45*	*04/15/21 07:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**89.6**	***+ *1**	50.1		mg/Kg		04/14/21 17:00	04/15/21 05:51	1
Diesel Range Organics (Over C10-C28)	**785**		50.1		mg/Kg		04/14/21 17:00	04/15/21 05:51	1
Oil Range Organics (Over C28-C36)	**265**		50.1		mg/Kg		04/14/21 17:00	04/15/21 05:51	1
Total TPH	**1140**		50.1		mg/Kg		04/14/21 17:00	04/15/21 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*04/14/21 17:00*	*04/15/21 05:51*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/14/21 17:00*	*04/15/21 05:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.73**		5.04		mg/Kg			04/15/21 12:10	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-1307-1	AH-1	105	123										
880-1307-2	AH-2	110	96										
880-1307-3	AH-3	100	98										
880-1307-4	AH-4	105	99										
880-1307-5	AH-5	97	101										
880-1307-6	H-1	98	112										
880-1307-7	H-2	134 S1+	87										
880-1307-8	H-3	111	110										
880-1307-9	H-4	241 S1+	128										
LCS 880-1779/1-A	Lab Control Sample	87	103										
LCS 880-1807/1-A	Lab Control Sample	104	98										
LCSD 880-1779/2-A	Lab Control Sample Dup	93	109										
LCSD 880-1807/2-A	Lab Control Sample Dup	118	104										
MB 880-1766/5-A	Method Blank	123	110										
MB 880-1779/5-A	Method Blank	116	98										
MB 880-1808/34	Method Blank	99	99										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-1307-1	AH-1	91	86										
880-1307-2	AH-2	95	89										
880-1307-3	AH-3	92	87										
880-1307-4	AH-4	91	86										
880-1307-5	AH-5	88	83										
880-1307-6	H-1	94	91										
880-1307-7	H-2	95	95										
880-1307-8	H-3	94	96										
880-1307-9	H-4	103	99										
LCS 880-1794/2-A	Lab Control Sample	104	94										
LCS 880-1802/2-A	Lab Control Sample	119	108										
LCSD 880-1794/3-A	Lab Control Sample Dup	101	89										
LCSD 880-1802/3-A	Lab Control Sample Dup	113	99										
MB 880-1794/1-A	Method Blank	107	103										
MB 880-1802/1-A	Method Blank	115	116										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1766/5-A
Matrix: Solid
Analysis Batch: 1767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1766

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/14/21 08:56	04/14/21 13:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/14/21 08:56	04/14/21 13:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/14/21 08:56	04/14/21 13:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/14/21 08:56	04/14/21 13:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/14/21 08:56	04/14/21 13:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/14/21 08:56	04/14/21 13:09	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/14/21 08:56	04/14/21 13:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*04/14/21 08:56*	*04/14/21 13:09*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/14/21 08:56*	*04/14/21 13:09*	*1*

Lab Sample ID: MB 880-1779/5-A
Matrix: Solid
Analysis Batch: 1767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 00:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 00:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 00:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/14/21 14:45	04/15/21 00:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 00:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/14/21 14:45	04/15/21 00:10	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/14/21 14:45	04/15/21 00:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*04/14/21 14:45*	*04/15/21 00:10*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/14/21 14:45*	*04/15/21 00:10*	*1*

Lab Sample ID: LCS 880-1779/1-A
Matrix: Solid
Analysis Batch: 1767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07945		mg/Kg		79	70 - 130
Toluene	0.100	0.08727		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.07968		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1691		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08270		mg/Kg		83	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

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

Lab Sample ID: LCSD 880-1779/2-A
Matrix: Solid
Analysis Batch: 1767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1779

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08414		mg/Kg		84	70 - 130	6	35
Toluene			0.100	0.09461		mg/Kg		95	70 - 130	8	35
Ethylbenzene			0.100	0.09048		mg/Kg		90	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.1824		mg/Kg		91	70 - 130	8	35
o-Xylene			0.100	0.09024		mg/Kg		90	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCS 880-1807/1-A
Matrix: Solid
Analysis Batch: 1808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1807

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.09531		mg/Kg		95	70 - 130
Toluene			0.100	0.09523		mg/Kg		95	70 - 130
Ethylbenzene			0.100	0.1000		mg/Kg		100	70 - 130
m-Xylene & p-Xylene			0.200	0.1947		mg/Kg		97	70 - 130
o-Xylene			0.100	0.09942		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-1807/2-A
Matrix: Solid
Analysis Batch: 1808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1807

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1157		mg/Kg		116	70 - 130	19	35
Toluene			0.100	0.1121		mg/Kg		112	70 - 130	16	35
Ethylbenzene			0.100	0.1215		mg/Kg		122	70 - 130	19	35
m-Xylene & p-Xylene			0.200	0.2476		mg/Kg		124	70 - 130	24	35
o-Xylene			0.100	0.1334	*+	mg/Kg		133	70 - 130	29	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-1808/34
Matrix: Solid
Analysis Batch: 1808

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			04/14/21 19:58	1
Toluene	<0.00200	U	0.00200		mg/Kg			04/14/21 19:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			04/14/21 19:58	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

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

Lab Sample ID: MB 880-1808/34
Matrix: Solid
Analysis Batch: 1808

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			04/14/21 19:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			04/14/21 19:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			04/14/21 19:58	1
Total BTEX	<0.00200	U	0.00200		mg/Kg			04/14/21 19:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/14/21 19:58*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*04/14/21 19:58*	*1*

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

Lab Sample ID: MB 880-1794/1-A
Matrix: Solid
Analysis Batch: 1773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/14/21 13:20	04/14/21 21:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/14/21 13:20	04/14/21 21:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/21 13:20	04/14/21 21:04	1
Total TPH	<50.0	U	50.0		mg/Kg		04/14/21 13:20	04/14/21 21:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*04/14/21 13:20*	*04/14/21 21:04*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/14/21 13:20*	*04/14/21 21:04*	*1*

Lab Sample ID: LCS 880-1794/2-A
Matrix: Solid
Analysis Batch: 1773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1794

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1153		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1031		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-1794/3-A
Matrix: Solid
Analysis Batch: 1773

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1794

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1282		mg/Kg		128	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	975.5		mg/Kg		98	70 - 130	6	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: MB 880-1802/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1775 — **Prep Batch: 1802**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/14/21 14:55	04/14/21 21:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/14/21 14:55	04/14/21 21:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/21 14:55	04/14/21 21:04	1
Total TPH	<50.0	U	50.0		mg/Kg		04/14/21 14:55	04/14/21 21:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	04/14/21 14:55	04/14/21 21:04	1
o-Terphenyl	116		70 - 130	04/14/21 14:55	04/14/21 21:04	1

Lab Sample ID: LCS 880-1802/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1775 — **Prep Batch: 1802**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1533	*+	mg/Kg		153	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1188		mg/Kg		119	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-1802/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1775 — **Prep Batch: 1802**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1220	*1	mg/Kg		122	70 - 130	23	20
Diesel Range Organics (Over C10-C28)			1000	1067		mg/Kg		107	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	99		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1810/1-A
Matrix: Solid
Analysis Batch: 1815

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/15/21 09:03	1

Lab Sample ID: LCS 880-1810/2-A
Matrix: Solid
Analysis Batch: 1815

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	246.7		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-1810/3-A
Matrix: Solid
Analysis Batch: 1815

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	226.5		mg/Kg		91	90 - 110	9	20

Lab Sample ID: MB 880-1811/1-A
Matrix: Solid
Analysis Batch: 1824

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/15/21 10:47	1

Lab Sample ID: LCS 880-1811/2-A
Matrix: Solid
Analysis Batch: 1824

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	245.1		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-1811/3-A
Matrix: Solid
Analysis Batch: 1824

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	244.9		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

GC VOA

Prep Batch: 1766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1766/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-5	AH-5	Total/NA	Solid	8021B	1779
880-1307-6	H-1	Total/NA	Solid	8021B	1779
880-1307-7	H-2	Total/NA	Solid	8021B	1779
880-1307-8	H-3	Total/NA	Solid	8021B	1779
880-1307-9	H-4	Total/NA	Solid	8021B	1779
MB 880-1766/5-A	Method Blank	Total/NA	Solid	8021B	1766
MB 880-1779/5-A	Method Blank	Total/NA	Solid	8021B	1779
LCS 880-1779/1-A	Lab Control Sample	Total/NA	Solid	8021B	1779
LCSD 880-1779/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1779

Prep Batch: 1779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-5	AH-5	Total/NA	Solid	5035	
880-1307-6	H-1	Total/NA	Solid	5035	
880-1307-7	H-2	Total/NA	Solid	5035	
880-1307-8	H-3	Total/NA	Solid	5035	
880-1307-9	H-4	Total/NA	Solid	5035	
MB 880-1779/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1779/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1779/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 1807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-1	AH-1	Total/NA	Solid	5035	
880-1307-2	AH-2	Total/NA	Solid	5035	
880-1307-3	AH-3	Total/NA	Solid	5035	
880-1307-4	AH-4	Total/NA	Solid	5035	
LCS 880-1807/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1807/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-1	AH-1	Total/NA	Solid	8021B	1807
880-1307-2	AH-2	Total/NA	Solid	8021B	1807
880-1307-3	AH-3	Total/NA	Solid	8021B	1807
880-1307-4	AH-4	Total/NA	Solid	8021B	1807
MB 880-1808/34	Method Blank	Total/NA	Solid	8021B	
LCS 880-1807/1-A	Lab Control Sample	Total/NA	Solid	8021B	1807
LCSD 880-1807/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1807

GC Semi VOA

Analysis Batch: 1771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-1	AH-1	Total/NA	Solid	8015B NM	1809
880-1307-2	AH-2	Total/NA	Solid	8015B NM	1809
880-1307-3	AH-3	Total/NA	Solid	8015B NM	1809

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

GC Semi VOA (Continued)

Analysis Batch: 1771 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-4	AH-4	Total/NA	Solid	8015B NM	1809
880-1307-5	AH-5	Total/NA	Solid	8015B NM	1809
880-1307-6	H-1	Total/NA	Solid	8015B NM	1809

Analysis Batch: 1773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-7	H-2	Total/NA	Solid	8015B NM	1794
MB 880-1794/1-A	Method Blank	Total/NA	Solid	8015B NM	1794
LCS 880-1794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1794
LCSD 880-1794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1794

Analysis Batch: 1775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-8	H-3	Total/NA	Solid	8015B NM	1802
880-1307-9	H-4	Total/NA	Solid	8015B NM	1802
MB 880-1802/1-A	Method Blank	Total/NA	Solid	8015B NM	1802
LCS 880-1802/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1802
LCSD 880-1802/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1802

Prep Batch: 1794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-7	H-2	Total/NA	Solid	8015NM Prep	
MB 880-1794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 1802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-8	H-3	Total/NA	Solid	8015NM Prep	
880-1307-9	H-4	Total/NA	Solid	8015NM Prep	
MB 880-1802/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1802/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1802/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 1809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-1	AH-1	Total/NA	Solid	8015NM Prep	
880-1307-2	AH-2	Total/NA	Solid	8015NM Prep	
880-1307-3	AH-3	Total/NA	Solid	8015NM Prep	
880-1307-4	AH-4	Total/NA	Solid	8015NM Prep	
880-1307-5	AH-5	Total/NA	Solid	8015NM Prep	
880-1307-6	H-1	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 1810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-1	AH-1	Soluble	Solid	DI Leach	
880-1307-2	AH-2	Soluble	Solid	DI Leach	
880-1307-3	AH-3	Soluble	Solid	DI Leach	
880-1307-4	AH-4	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-1307-1
Project/Site: Brown SWD #1 SDG: Lea County New Mexico

HPLC/IC (Continued)

Leach Batch: 1810 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-5	AH-5	Soluble	Solid	DI Leach	
880-1307-6	H-1	Soluble	Solid	DI Leach	
MB 880-1810/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1810/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1810/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 1811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-7	H-2	Soluble	Solid	DI Leach	
880-1307-8	H-3	Soluble	Solid	DI Leach	
880-1307-9	H-4	Soluble	Solid	DI Leach	
MB 880-1811/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1811/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1811/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-1	AH-1	Soluble	Solid	300.0	1810
880-1307-2	AH-2	Soluble	Solid	300.0	1810
880-1307-3	AH-3	Soluble	Solid	300.0	1810
880-1307-4	AH-4	Soluble	Solid	300.0	1810
880-1307-5	AH-5	Soluble	Solid	300.0	1810
880-1307-6	H-1	Soluble	Solid	300.0	1810
MB 880-1810/1-A	Method Blank	Soluble	Solid	300.0	1810
LCS 880-1810/2-A	Lab Control Sample	Soluble	Solid	300.0	1810
LCSD 880-1810/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1810

Analysis Batch: 1824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1307-7	H-2	Soluble	Solid	300.0	1811
880-1307-8	H-3	Soluble	Solid	300.0	1811
880-1307-9	H-4	Soluble	Solid	300.0	1811
MB 880-1811/1-A	Method Blank	Soluble	Solid	300.0	1811
LCS 880-1811/2-A	Lab Control Sample	Soluble	Solid	300.0	1811
LCSD 880-1811/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1811

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Client Sample ID: AH-1

Lab Sample ID: 880-1307-1
Matrix: Solid
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1807	04/14/21 17:15	KL	XM
Total/NA	Analysis	8021B		1	1808	04/15/21 02:47	KL	XM
Total/NA	Prep	8015NM Prep			1809	04/14/21 17:20	DM	XM
Total/NA	Analysis	8015B NM		1	1771	04/15/21 00:21	AJ	XM
Soluble	Leach	DI Leach			1810	04/14/21 18:30	SC	XM
Soluble	Analysis	300.0		5	1815	04/15/21 12:07	CH	XM

Client Sample ID: AH-2

Lab Sample ID: 880-1307-2
Matrix: Solid
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1807	04/14/21 17:15	KL	XM
Total/NA	Analysis	8021B		1	1808	04/15/21 03:07	KL	XM
Total/NA	Prep	8015NM Prep			1809	04/14/21 17:20	DM	XM
Total/NA	Analysis	8015B NM		1	1771	04/15/21 00:42	AJ	XM
Soluble	Leach	DI Leach			1810	04/14/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1815	04/15/21 12:12	CH	XM

Client Sample ID: AH-3

Lab Sample ID: 880-1307-3
Matrix: Solid
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1807	04/14/21 17:15	KL	XM
Total/NA	Analysis	8021B		1	1808	04/15/21 03:27	KL	XM
Total/NA	Prep	8015NM Prep			1809	04/14/21 17:20	DM	XM
Total/NA	Analysis	8015B NM		1	1771	04/15/21 01:03	AJ	XM
Soluble	Leach	DI Leach			1810	04/14/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1815	04/15/21 12:17	CH	XM

Client Sample ID: AH-4

Lab Sample ID: 880-1307-4
Matrix: Solid
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1807	04/14/21 17:15	KL	XM
Total/NA	Analysis	8021B		1	1808	04/15/21 03:48	KL	XM
Total/NA	Prep	8015NM Prep			1809	04/14/21 17:20	DM	XM
Total/NA	Analysis	8015B NM		1	1771	04/15/21 01:25	AJ	XM
Soluble	Leach	DI Leach			1810	04/14/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1815	04/15/21 12:22	CH	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Client Sample ID: AH-5
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1779	04/14/21 14:45	KL	XM
Total/NA	Analysis	8021B		1	1767	04/15/21 06:23	KL	XM
Total/NA	Prep	8015NM Prep			1809	04/14/21 17:20	DM	XM
Total/NA	Analysis	8015B NM		1	1771	04/15/21 01:46	AJ	XM
Soluble	Leach	DI Leach			1810	04/14/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1815	04/15/21 12:27	CH	XM

Client Sample ID: H-1
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1779	04/14/21 14:45	KL	XM
Total/NA	Analysis	8021B		1	1767	04/15/21 06:43	KL	XM
Total/NA	Prep	8015NM Prep			1809	04/14/21 17:20	DM	XM
Total/NA	Analysis	8015B NM		1	1771	04/15/21 02:07	AJ	XM
Soluble	Leach	DI Leach			1810	04/14/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1815	04/15/21 12:32	CH	XM

Client Sample ID: H-2
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1779	04/14/21 14:45	KL	XM
Total/NA	Analysis	8021B		1	1767	04/15/21 07:04	KL	XM
Total/NA	Prep	8015NM Prep			1794	04/14/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	1773	04/15/21 05:51	AJ	XM
Soluble	Leach	DI Leach			1811	04/14/21 18:34	SC	XM
Soluble	Analysis	300.0		1	1824	04/15/21 11:59	CH	XM

Client Sample ID: H-3
Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1779	04/14/21 14:45	KL	XM
Total/NA	Analysis	8021B		1	1767	04/15/21 07:25	KL	XM
Total/NA	Prep	8015NM Prep			1802	04/14/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	1775	04/15/21 05:30	AJ	XM
Soluble	Leach	DI Leach			1811	04/14/21 18:34	SC	XM
Soluble	Analysis	300.0		1	1824	04/15/21 12:05	CH	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Client Sample ID: H-4

Date Collected: 04/01/21 00:00
Date Received: 04/14/21 16:53

Lab Sample ID: 880-1307-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1779	04/14/21 14:45	KL	XM
Total/NA	Analysis	8021B		1	1767	04/15/21 07:45	KL	XM
Total/NA	Prep	8015NM Prep			1802	04/14/21 17:00	DM	XM
Total/NA	Analysis	8015B NM		1	1775	04/15/21 05:51	AJ	XM
Soluble	Leach	DI Leach			1811	04/14/21 18:34	SC	XM
Soluble	Analysis	300.0		1	1824	04/15/21 12:10	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 880-1307-1
Project/Site: Brown SWD #1 SDG: Lea County New Mexico

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: Tetra Tech, Inc. Job ID: 880-1307-1
Project/Site: Brown SWD #1 SDG: Lea County New Mexico

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Brown SWD #1

Job ID: 880-1307-1
SDG: Lea County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1307-1	AH-1	Solid	04/01/21 00:00	04/14/21 16:53	
880-1307-2	AH-2	Solid	04/01/21 00:00	04/14/21 16:53	
880-1307-3	AH-3	Solid	04/01/21 00:00	04/14/21 16:53	
880-1307-4	AH-4	Solid	04/01/21 00:00	04/14/21 16:53	
880-1307-5	AH-5	Solid	04/01/21 00:00	04/14/21 16:53	
880-1307-6	H-1	Solid	04/01/21 00:00	04/14/21 16:53	
880-1307-7	H-2	Solid	04/01/21 00:00	04/14/21 16:53	
880-1307-8	H-3	Solid	04/01/21 00:00	04/14/21 16:53	
880-1307-9	H-4	Solid	04/01/21 00:00	04/14/21 16:53	

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

880-1307 Chain of Custody

Suite 100
79701
1559
3946

1307

Client Name:	EOG	**Site Manager:**	Paula TocoraAlonso
Project Name:	Brown SWD #1	**Contact Info:**	Paula TocoraAlonso@tetratech com
Project Location: (county, state)	Lea County New Mexico	**Project #:**	212C-MD-02419 Task 2900
Invoice to:	EOG James Kennedy		
Receiving Laboratory:	Xenco	**Sampler Signature:**	Matthew Castrejon
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

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

Relinquished by:	Date 4/14/21	Time	
Relinquished by:	Date	Time	
Relinquished by:	Date	Time	
Received by:	Date 4/14/21	Time 4:53	
Received by:	Date	Time	
Received by:	Date	Time	

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ Standard
- ☒ RUSH Same Day (24 hr) 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-1307-1
SDG Number: Lea County New Mexico

Login Number: 1307
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Midland

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-2575-1
Laboratory Sample Delivery Group: Lea County, NM
Client Project/Site: EOG-Brown SWD #1

For:
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Attn: Clair Gonzales

JKramer

Authorized for release by:
5/31/2021 7:24:16 PM

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

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

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

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Laboratory Job ID: 880-2575-1
SDG: Lea County, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-2575-1
Project/Site: EOG-Brown SWD #1 SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Job ID: 880-2575-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-2575-1

Receipt
The samples were received on 5/28/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-1 (880-2575-1), SW-5 (880-2575-5), SW-6 (880-2575-6) and SW-8 (880-2575-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-3 (880-2575-11) and BH-6 (880-2575-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3621 and analytical batch 880-3650 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: BH-3 (880-2575-11), BH-4 (880-2575-12), BH-5 (880-2575-13) and BH-6 (880-2575-14).

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 880-2575-1
Matrix: Solid
Date Collected: 05/27/21 10:00
Date Received: 05/28/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 15:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 15:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 15:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/28/21 13:00	05/28/21 15:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 15:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/28/21 13:00	05/28/21 15:48	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/28/21 13:00	05/28/21 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*05/28/21 13:00*	*05/28/21 15:48*	*1*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*05/28/21 13:00*	*05/28/21 15:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 15:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 15:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 15:50	1
Total TPH	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/28/21 13:24*	*05/29/21 15:50*	*1*
o-Terphenyl	*101*		*70 - 130*	*05/28/21 13:24*	*05/29/21 15:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**202**		4.96		mg/Kg			05/29/21 04:45	1

Client Sample ID: SW-2

Lab Sample ID: 880-2575-2
Matrix: Solid
Date Collected: 05/27/21 10:30
Date Received: 05/28/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 16:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 16:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 16:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 16:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 16:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 16:09	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/28/21 13:00*	*05/28/21 16:09*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/28/21 13:00*	*05/28/21 16:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 16:53	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: SW-2

Lab Sample ID: 880-2575-2
Matrix: Solid
Date Collected: 05/27/21 10:30
Date Received: 05/28/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 16:53	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 16:53	1
Total TPH	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*05/28/21 13:24*	*05/29/21 16:53*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/28/21 13:24*	*05/29/21 16:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3020**		25.0		mg/Kg			05/29/21 05:00	5

Client Sample ID: SW-3

Lab Sample ID: 880-2575-3
Matrix: Solid
Date Collected: 05/27/21 11:00
Date Received: 05/28/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00220**		0.00202		mg/Kg		05/28/21 13:00	05/28/21 16:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 16:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 16:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/28/21 13:00	05/28/21 16:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 16:29	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/28/21 13:00	05/28/21 16:29	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		05/28/21 13:00	05/28/21 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/28/21 13:00*	*05/28/21 16:29*	*1*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*	*05/28/21 13:00*	*05/28/21 16:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 17:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 17:14	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 17:14	1
Total TPH	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/28/21 13:24*	*05/29/21 17:14*	*1*
o-Terphenyl	*105*		*70 - 130*	*05/28/21 13:24*	*05/29/21 17:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		5.00		mg/Kg			05/29/21 05:05	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: SW-4

Date Collected: 05/27/21 11:30
Date Received: 05/28/21 12:00

Lab Sample ID: 880-2575-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 16:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 16:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 16:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/28/21 13:00	05/28/21 16:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 16:50	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/28/21 13:00	05/28/21 16:50	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/28/21 13:00	05/28/21 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/28/21 13:00*	*05/28/21 16:50*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*05/28/21 13:00*	*05/28/21 16:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 17:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 17:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 17:35	1
Total TPH	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/28/21 13:24*	*05/29/21 17:35*	*1*
o-Terphenyl	*115*		*70 - 130*	*05/28/21 13:24*	*05/29/21 17:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4260**		25.0		mg/Kg			05/29/21 05:10	5

Client Sample ID: SW-5

Date Collected: 05/27/21 12:00
Date Received: 05/28/21 12:00

Lab Sample ID: 880-2575-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 17:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 17:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 17:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 17:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 17:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 17:11	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/28/21 13:00*	*05/28/21 17:11*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*05/28/21 13:00*	*05/28/21 17:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 17:57	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: SW-5

Lab Sample ID: 880-2575-5
Matrix: Solid
Date Collected: 05/27/21 12:00
Date Received: 05/28/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**278**		49.8		mg/Kg		05/28/21 13:24	05/29/21 17:57	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 17:57	1
Total TPH	**278**	**B**	49.8		mg/Kg		05/28/21 13:24	05/29/21 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*05/28/21 13:24*	*05/29/21 17:57*	*1*
o-Terphenyl	*112*		*70 - 130*	*05/28/21 13:24*	*05/29/21 17:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2200**		25.2		mg/Kg			05/29/21 05:15	5

Client Sample ID: SW-6

Lab Sample ID: 880-2575-6
Matrix: Solid
Date Collected: 05/27/21 12:30
Date Received: 05/28/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 17:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 17:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/28/21 13:00	05/28/21 17:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 17:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/28/21 13:00	05/28/21 17:31	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/28/21 13:00	05/28/21 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/28/21 13:00*	*05/28/21 17:31*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*05/28/21 13:00*	*05/28/21 17:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 18:18	1
Diesel Range Organics (Over C10-C28)	**229**		49.9		mg/Kg		05/28/21 13:24	05/29/21 18:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 18:18	1
Total TPH	**229**	**B**	49.9		mg/Kg		05/28/21 13:24	05/29/21 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/28/21 13:24*	*05/29/21 18:18*	*1*
o-Terphenyl	*104*		*70 - 130*	*05/28/21 13:24*	*05/29/21 18:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2080**		25.3		mg/Kg			05/29/21 05:29	5

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: SW-7

Lab Sample ID: 880-2575-7
Matrix: Solid
Date Collected: 05/27/21 13:00
Date Received: 05/28/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 18:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 18:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 18:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/28/21 13:00	05/28/21 18:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/28/21 13:00	05/28/21 18:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/28/21 13:00	05/28/21 18:54	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/28/21 13:00	05/28/21 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/28/21 13:00*	*05/28/21 18:54*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*05/28/21 13:00*	*05/28/21 18:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 18:39	1
Diesel Range Organics (Over C10-C28)	**90.7**		50.0		mg/Kg		05/28/21 13:24	05/29/21 18:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 18:39	1
Total TPH	**90.7**	**B**	50.0		mg/Kg		05/28/21 13:24	05/29/21 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*05/28/21 13:24*	*05/29/21 18:39*	*1*
o-Terphenyl	*119*		*70 - 130*	*05/28/21 13:24*	*05/29/21 18:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2020**		24.9		mg/Kg			05/29/21 05:34	5

Client Sample ID: SW-8

Lab Sample ID: 880-2575-8
Matrix: Solid
Date Collected: 05/27/21 13:30
Date Received: 05/28/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 19:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 19:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 19:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/28/21 13:00	05/28/21 19:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 19:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/28/21 13:00	05/28/21 19:15	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/28/21 13:00	05/28/21 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/28/21 13:00*	*05/28/21 19:15*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*05/28/21 13:00*	*05/28/21 19:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 19:00	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: SW-8

Lab Sample ID: 880-2575-8
Matrix: Solid
Date Collected: 05/27/21 13:30
Date Received: 05/28/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	964		49.9		mg/Kg		05/28/21 13:24	05/29/21 19:00	1
Oil Range Organics (Over C28-C36)	144		49.9		mg/Kg		05/28/21 13:24	05/29/21 19:00	1
Total TPH	1110	B	49.9		mg/Kg		05/28/21 13:24	05/29/21 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*05/28/21 13:24*	*05/29/21 19:00*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/28/21 13:24*	*05/29/21 19:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	754		4.97		mg/Kg			05/29/21 05:39	1

Client Sample ID: BH-1

Lab Sample ID: 880-2575-9
Matrix: Solid
Date Collected: 05/27/21 14:00
Date Received: 05/28/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 19:35	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/28/21 13:00*	*05/28/21 19:35*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*05/28/21 13:00*	*05/28/21 19:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 19:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 19:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 19:21	1
Total TPH	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*05/28/21 13:24*	*05/29/21 19:21*	*1*
o-Terphenyl	*114*		*70 - 130*	*05/28/21 13:24*	*05/29/21 19:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6000		49.9		mg/Kg			05/29/21 05:44	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: BH-2

Date Collected: 05/27/21 14:30
Date Received: 05/28/21 12:00

Lab Sample ID: 880-2575-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 19:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 19:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 19:56	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/28/21 13:00	05/28/21 19:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 19:56	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/28/21 13:00	05/28/21 19:56	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/28/21 13:00	05/28/21 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/28/21 13:00*	*05/28/21 19:56*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*05/28/21 13:00*	*05/28/21 19:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 19:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 19:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 19:42	1
Total TPH	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/28/21 13:24*	*05/29/21 19:42*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/28/21 13:24*	*05/29/21 19:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3330**		25.1		mg/Kg			05/29/21 05:49	5

Client Sample ID: BH-3

Date Collected: 05/27/21 15:00
Date Received: 05/28/21 12:00

Lab Sample ID: 880-2575-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 20:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 20:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 20:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/28/21 13:00	05/28/21 20:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/28/21 13:00	05/28/21 20:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/28/21 13:00	05/28/21 20:17	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/28/21 13:00	05/28/21 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/28/21 13:00*	*05/28/21 20:17*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*05/28/21 13:00*	*05/28/21 20:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/28/21 13:24	05/29/21 20:25	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: BH-3

Lab Sample ID: 880-2575-11
Matrix: Solid
Date Collected: 05/27/21 15:00
Date Received: 05/28/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**359**		49.8		mg/Kg		05/28/21 13:24	05/29/21 20:25	1
Oil Range Organics (Over C28-C36)	**62.9**		49.8		mg/Kg		05/28/21 13:24	05/29/21 20:25	1
Total TPH	**422**	**B**	49.8		mg/Kg		05/28/21 13:24	05/29/21 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/28/21 13:24*	*05/29/21 20:25*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/28/21 13:24*	*05/29/21 20:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4190**	**F1**	25.0		mg/Kg			05/29/21 05:54	5

Client Sample ID: BH-4

Lab Sample ID: 880-2575-12
Matrix: Solid
Date Collected: 05/27/21 15:30
Date Received: 05/28/21 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 20:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 20:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 20:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 20:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 20:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 20:37	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/28/21 13:00*	*05/28/21 20:37*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*05/28/21 13:00*	*05/28/21 20:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 20:46	1
Diesel Range Organics (Over C10-C28)	**295**		49.9		mg/Kg		05/28/21 13:24	05/29/21 20:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 20:46	1
Total TPH	**295**	**B**	49.9		mg/Kg		05/28/21 13:24	05/29/21 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/28/21 13:24*	*05/29/21 20:46*	*1*
o-Terphenyl	*110*		*70 - 130*	*05/28/21 13:24*	*05/29/21 20:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2050**		25.2		mg/Kg			05/29/21 06:08	5

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: BH-5

Date Collected: 05/27/21 16:00
Date Received: 05/28/21 12:00

Lab Sample ID: 880-2575-13
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 20:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 20:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 20:58	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/28/21 13:00	05/28/21 20:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/28/21 13:00	05/28/21 20:58	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/28/21 13:00	05/28/21 20:58	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/28/21 13:00	05/28/21 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/28/21 13:00*	*05/28/21 20:58*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/28/21 13:00*	*05/28/21 20:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 21:07	1
Diesel Range Organics (Over C10-C28)	**1410**		49.9		mg/Kg		05/28/21 13:24	05/29/21 21:07	1
Oil Range Organics (Over C28-C36)	**187**		49.9		mg/Kg		05/28/21 13:24	05/29/21 21:07	1
Total TPH	**1600**	**B**	49.9		mg/Kg		05/28/21 13:24	05/29/21 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/28/21 13:24*	*05/29/21 21:07*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/28/21 13:24*	*05/29/21 21:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1110**		5.02		mg/Kg			05/29/21 06:13	1

Client Sample ID: BH-6

Date Collected: 05/27/21 16:30
Date Received: 05/28/21 12:00

Lab Sample ID: 880-2575-14
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 21:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 21:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 21:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 21:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/28/21 13:00	05/28/21 21:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 21:19	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/28/21 13:00	05/28/21 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/28/21 13:00*	*05/28/21 21:19*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*05/28/21 13:00*	*05/28/21 21:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/28/21 13:24	05/29/21 21:28	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: BH-6
Date Collected: 05/27/21 16:30
Date Received: 05/28/21 12:00

Lab Sample ID: 880-2575-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	1920		49.9		mg/Kg		05/28/21 13:24	05/29/21 21:28	1
Oil Range Organics (Over C28-C36)	264		49.9		mg/Kg		05/28/21 13:24	05/29/21 21:28	1
Total TPH	2180	B	49.9		mg/Kg		05/28/21 13:24	05/29/21 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*05/28/21 13:24*	*05/29/21 21:28*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/28/21 13:24*	*05/29/21 21:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		24.8		mg/Kg			05/29/21 06:28	5

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-2575-1	SW-1	118	131 S1+
880-2575-2	SW-2	93	109
880-2575-3	SW-3	99	130
880-2575-4	SW-4	90	112
880-2575-5	SW-5	102	116
880-2575-6	SW-6	101	122
880-2575-7	SW-7	99	117
880-2575-8	SW-8	108	126
880-2575-9	BH-1	99	120
880-2575-10	BH-2	100	125
880-2575-11	BH-3	100	119
880-2575-12	BH-4	96	115
880-2575-13	BH-5	89	110
880-2575-14	BH-6	109	116
LCS 880-3591/1-A	Lab Control Sample	88	110
LCSD 880-3591/2-A	Lab Control Sample Dup	98	114
MB 880-3591/5-A	Method Blank	110	110

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-2575-1	SW-1	105	101
880-2575-1 MS	SW-1	101	84
880-2575-1 MSD	SW-1	98	83
880-2575-2	SW-2	113	102
880-2575-3	SW-3	111	105
880-2575-4	SW-4	122	115
880-2575-5	SW-5	121	112
880-2575-6	SW-6	108	104
880-2575-7	SW-7	126	119
880-2575-8	SW-8	109	102
880-2575-9	BH-1	118	114
880-2575-10	BH-2	106	102
880-2575-11	BH-3	106	100
880-2575-12	BH-4	122	110
880-2575-13	BH-5	107	92
880-2575-14	BH-6	114	92
LCS 880-3622/2-A	Lab Control Sample	111	94
LCSD 880-3622/3-A	Lab Control Sample Dup	109	94
MB 880-3622/1-A	Method Blank	110	107

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3591/5-A
Matrix: Solid
Analysis Batch: 3609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/28/21 09:00	05/28/21 14:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/28/21 09:00	05/28/21 14:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/28/21 09:00	05/28/21 14:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/28/21 09:00	05/28/21 14:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/28/21 09:00	05/28/21 14:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/28/21 09:00	05/28/21 14:04	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/28/21 09:00	05/28/21 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/28/21 09:00*	*05/28/21 14:04*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/28/21 09:00*	*05/28/21 14:04*	*1*

Lab Sample ID: LCS 880-3591/1-A
Matrix: Solid
Analysis Batch: 3609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3591

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09784		mg/Kg		98	70 - 130		
Toluene			0.100	0.09773		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.09896		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.1949		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09189		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-3591/2-A
Matrix: Solid
Analysis Batch: 3609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3591

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1036		mg/Kg		104	70 - 130	6	35
Toluene			0.100	0.1152		mg/Kg		115	70 - 130	16	35
Ethylbenzene			0.100	0.1065		mg/Kg		106	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2179		mg/Kg		109	70 - 130	11	35
o-Xylene			0.100	0.1063		mg/Kg		106	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-3622/1-A
Matrix: Solid
Analysis Batch: 3665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	270.2		50.0		mg/Kg		05/28/21 13:24	05/29/21 14:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 14:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/28/21 13:24	05/29/21 14:42	1
Total TPH	270.2		50.0		mg/Kg		05/28/21 13:24	05/29/21 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*05/28/21 13:24*	*05/29/21 14:42*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/28/21 13:24*	*05/29/21 14:42*	*1*

Lab Sample ID: LCS 880-3622/2-A
Matrix: Solid
Analysis Batch: 3665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3622

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1023		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1172		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-3622/3-A
Matrix: Solid
Analysis Batch: 3665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	999.1		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1165		mg/Kg		116	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-2575-1 MS
Matrix: Solid
Analysis Batch: 3665

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 3622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	953.5		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1147		mg/Kg		115	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

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

Lab Sample ID: 880-2575-1 MS
Matrix: Solid
Analysis Batch: 3665

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 3622

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: 880-2575-1 MSD
Matrix: Solid
Analysis Batch: 3665

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 3622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	974.3		mg/Kg		95	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1128		mg/Kg		113	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3621/1-A
Matrix: Solid
Analysis Batch: 3650

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/29/21 04:31	1

Lab Sample ID: LCS 880-3621/2-A
Matrix: Solid
Analysis Batch: 3650

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	246.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-3621/3-A
Matrix: Solid
Analysis Batch: 3650

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	246.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-2575-1 MS
Matrix: Solid
Analysis Batch: 3650

Client Sample ID: SW-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	202		248	446.7		mg/Kg		99	90 - 110		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-2575-1 MSD
Matrix: Solid
Analysis Batch: 3650

Client Sample ID: SW-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	202		248	446.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-2575-11 MS
Matrix: Solid
Analysis Batch: 3650

Client Sample ID: BH-3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4190	F1	1250	5260	F1	mg/Kg		86	90 - 110

Lab Sample ID: 880-2575-11 MSD
Matrix: Solid
Analysis Batch: 3650

Client Sample ID: BH-3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4190	F1	1250	5262	F1	mg/Kg		86	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

GC VOA

Prep Batch: 3591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2575-1	SW-1	Total/NA	Solid	5035	
880-2575-2	SW-2	Total/NA	Solid	5035	
880-2575-3	SW-3	Total/NA	Solid	5035	
880-2575-4	SW-4	Total/NA	Solid	5035	
880-2575-5	SW-5	Total/NA	Solid	5035	
880-2575-6	SW-6	Total/NA	Solid	5035	
880-2575-7	SW-7	Total/NA	Solid	5035	
880-2575-8	SW-8	Total/NA	Solid	5035	
880-2575-9	BH-1	Total/NA	Solid	5035	
880-2575-10	BH-2	Total/NA	Solid	5035	
880-2575-11	BH-3	Total/NA	Solid	5035	
880-2575-12	BH-4	Total/NA	Solid	5035	
880-2575-13	BH-5	Total/NA	Solid	5035	
880-2575-14	BH-6	Total/NA	Solid	5035	
MB 880-3591/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3591/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3591/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2575-1	SW-1	Total/NA	Solid	8021B	3591
880-2575-2	SW-2	Total/NA	Solid	8021B	3591
880-2575-3	SW-3	Total/NA	Solid	8021B	3591
880-2575-4	SW-4	Total/NA	Solid	8021B	3591
880-2575-5	SW-5	Total/NA	Solid	8021B	3591
880-2575-6	SW-6	Total/NA	Solid	8021B	3591
880-2575-7	SW-7	Total/NA	Solid	8021B	3591
880-2575-8	SW-8	Total/NA	Solid	8021B	3591
880-2575-9	BH-1	Total/NA	Solid	8021B	3591
880-2575-10	BH-2	Total/NA	Solid	8021B	3591
880-2575-11	BH-3	Total/NA	Solid	8021B	3591
880-2575-12	BH-4	Total/NA	Solid	8021B	3591
880-2575-13	BH-5	Total/NA	Solid	8021B	3591
880-2575-14	BH-6	Total/NA	Solid	8021B	3591
MB 880-3591/5-A	Method Blank	Total/NA	Solid	8021B	3591
LCS 880-3591/1-A	Lab Control Sample	Total/NA	Solid	8021B	3591
LCSD 880-3591/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3591

GC Semi VOA

Prep Batch: 3622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2575-1	SW-1	Total/NA	Solid	8015NM Prep	
880-2575-2	SW-2	Total/NA	Solid	8015NM Prep	
880-2575-3	SW-3	Total/NA	Solid	8015NM Prep	
880-2575-4	SW-4	Total/NA	Solid	8015NM Prep	
880-2575-5	SW-5	Total/NA	Solid	8015NM Prep	
880-2575-6	SW-6	Total/NA	Solid	8015NM Prep	
880-2575-7	SW-7	Total/NA	Solid	8015NM Prep	
880-2575-8	SW-8	Total/NA	Solid	8015NM Prep	
880-2575-9	BH-1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 3622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2575-10	BH-2	Total/NA	Solid	8015NM Prep	
880-2575-11	BH-3	Total/NA	Solid	8015NM Prep	
880-2575-12	BH-4	Total/NA	Solid	8015NM Prep	
880-2575-13	BH-5	Total/NA	Solid	8015NM Prep	
880-2575-14	BH-6	Total/NA	Solid	8015NM Prep	
MB 880-3622/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3622/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-2575-1 MS	SW-1	Total/NA	Solid	8015NM Prep	
880-2575-1 MSD	SW-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2575-1	SW-1	Total/NA	Solid	8015B NM	3622
880-2575-2	SW-2	Total/NA	Solid	8015B NM	3622
880-2575-3	SW-3	Total/NA	Solid	8015B NM	3622
880-2575-4	SW-4	Total/NA	Solid	8015B NM	3622
880-2575-5	SW-5	Total/NA	Solid	8015B NM	3622
880-2575-6	SW-6	Total/NA	Solid	8015B NM	3622
880-2575-7	SW-7	Total/NA	Solid	8015B NM	3622
880-2575-8	SW-8	Total/NA	Solid	8015B NM	3622
880-2575-9	BH-1	Total/NA	Solid	8015B NM	3622
880-2575-10	BH-2	Total/NA	Solid	8015B NM	3622
880-2575-11	BH-3	Total/NA	Solid	8015B NM	3622
880-2575-12	BH-4	Total/NA	Solid	8015B NM	3622
880-2575-13	BH-5	Total/NA	Solid	8015B NM	3622
880-2575-14	BH-6	Total/NA	Solid	8015B NM	3622
MB 880-3622/1-A	Method Blank	Total/NA	Solid	8015B NM	3622
LCS 880-3622/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3622
LCSD 880-3622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3622
880-2575-1 MS	SW-1	Total/NA	Solid	8015B NM	3622
880-2575-1 MSD	SW-1	Total/NA	Solid	8015B NM	3622

HPLC/IC

Leach Batch: 3621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2575-1	SW-1	Soluble	Solid	DI Leach	
880-2575-2	SW-2	Soluble	Solid	DI Leach	
880-2575-3	SW-3	Soluble	Solid	DI Leach	
880-2575-4	SW-4	Soluble	Solid	DI Leach	
880-2575-5	SW-5	Soluble	Solid	DI Leach	
880-2575-6	SW-6	Soluble	Solid	DI Leach	
880-2575-7	SW-7	Soluble	Solid	DI Leach	
880-2575-8	SW-8	Soluble	Solid	DI Leach	
880-2575-9	BH-1	Soluble	Solid	DI Leach	
880-2575-10	BH-2	Soluble	Solid	DI Leach	
880-2575-11	BH-3	Soluble	Solid	DI Leach	
880-2575-12	BH-4	Soluble	Solid	DI Leach	
880-2575-13	BH-5	Soluble	Solid	DI Leach	
880-2575-14	BH-6	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 3621 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3621/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3621/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3621/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-2575-1 MS	SW-1	Soluble	Solid	DI Leach	
880-2575-1 MSD	SW-1	Soluble	Solid	DI Leach	
880-2575-11 MS	BH-3	Soluble	Solid	DI Leach	
880-2575-11 MSD	BH-3	Soluble	Solid	DI Leach	

Analysis Batch: 3650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2575-1	SW-1	Soluble	Solid	300.0	3621
880-2575-2	SW-2	Soluble	Solid	300.0	3621
880-2575-3	SW-3	Soluble	Solid	300.0	3621
880-2575-4	SW-4	Soluble	Solid	300.0	3621
880-2575-5	SW-5	Soluble	Solid	300.0	3621
880-2575-6	SW-6	Soluble	Solid	300.0	3621
880-2575-7	SW-7	Soluble	Solid	300.0	3621
880-2575-8	SW-8	Soluble	Solid	300.0	3621
880-2575-9	BH-1	Soluble	Solid	300.0	3621
880-2575-10	BH-2	Soluble	Solid	300.0	3621
880-2575-11	BH-3	Soluble	Solid	300.0	3621
880-2575-12	BH-4	Soluble	Solid	300.0	3621
880-2575-13	BH-5	Soluble	Solid	300.0	3621
880-2575-14	BH-6	Soluble	Solid	300.0	3621
MB 880-3621/1-A	Method Blank	Soluble	Solid	300.0	3621
LCS 880-3621/2-A	Lab Control Sample	Soluble	Solid	300.0	3621
LCSD 880-3621/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3621
880-2575-1 MS	SW-1	Soluble	Solid	300.0	3621
880-2575-1 MSD	SW-1	Soluble	Solid	300.0	3621
880-2575-11 MS	BH-3	Soluble	Solid	300.0	3621
880-2575-11 MSD	BH-3	Soluble	Solid	300.0	3621

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 880-2575-1
Date Collected: 05/27/21 10:00
Matrix: Solid
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 15:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 15:50	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		1			3650	05/29/21 04:45	SC	XEN MID

Client Sample ID: SW-2

Lab Sample ID: 880-2575-2
Date Collected: 05/27/21 10:30
Matrix: Solid
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 16:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 16:53	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		5			3650	05/29/21 05:00	SC	XEN MID

Client Sample ID: SW-3

Lab Sample ID: 880-2575-3
Date Collected: 05/27/21 11:00
Matrix: Solid
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 16:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 17:14	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		1			3650	05/29/21 05:05	SC	XEN MID

Client Sample ID: SW-4

Lab Sample ID: 880-2575-4
Date Collected: 05/27/21 11:30
Matrix: Solid
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 16:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 17:35	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		5			3650	05/29/21 05:10	SC	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: SW-5

Lab Sample ID: 880-2575-5
Date Collected: 05/27/21 12:00
Matrix: Solid
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 17:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 17:57	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		5			3650	05/29/21 05:15	SC	XEN MID

Client Sample ID: SW-6

Lab Sample ID: 880-2575-6
Date Collected: 05/27/21 12:30
Matrix: Solid
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 17:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 18:18	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		5			3650	05/29/21 05:29	SC	XEN MID

Client Sample ID: SW-7

Lab Sample ID: 880-2575-7
Date Collected: 05/27/21 13:00
Matrix: Solid
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 18:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 18:39	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		5			3650	05/29/21 05:34	SC	XEN MID

Client Sample ID: SW-8

Lab Sample ID: 880-2575-8
Date Collected: 05/27/21 13:30
Matrix: Solid
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 19:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 19:00	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		1			3650	05/29/21 05:39	SC	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: BH-1

Lab Sample ID: 880-2575-9
Matrix: Solid
Date Collected: 05/27/21 14:00
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 19:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 19:21	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		10			3650	05/29/21 05:44	SC	XEN MID

Client Sample ID: BH-2

Lab Sample ID: 880-2575-10
Matrix: Solid
Date Collected: 05/27/21 14:30
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 19:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 19:42	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		5			3650	05/29/21 05:49	SC	XEN MID

Client Sample ID: BH-3

Lab Sample ID: 880-2575-11
Matrix: Solid
Date Collected: 05/27/21 15:00
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 20:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 20:25	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		5			3650	05/29/21 05:54	SC	XEN MID

Client Sample ID: BH-4

Lab Sample ID: 880-2575-12
Matrix: Solid
Date Collected: 05/27/21 15:30
Date Received: 05/28/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 20:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 20:46	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		5			3650	05/29/21 06:08	SC	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Client Sample ID: BH-5

Date Collected: 05/27/21 16:00
Date Received: 05/28/21 12:00

Lab Sample ID: 880-2575-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 20:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 21:07	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		1			3650	05/29/21 06:13	SC	XEN MID

Client Sample ID: BH-6

Date Collected: 05/27/21 16:30
Date Received: 05/28/21 12:00

Lab Sample ID: 880-2575-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3591	05/28/21 13:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3609	05/28/21 21:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3622	05/28/21 13:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3665	05/29/21 21:28	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3621	05/28/21 13:16	SC	XEN MID
Soluble	Analysis	300.0		5			3650	05/29/21 06:28	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Brown SWD #1

Job ID: 880-2575-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-2575-1	SW-1	Solid	05/27/21 10:00	05/28/21 12:00	
880-2575-2	SW-2	Solid	05/27/21 10:30	05/28/21 12:00	
880-2575-3	SW-3	Solid	05/27/21 11:00	05/28/21 12:00	
880-2575-4	SW-4	Solid	05/27/21 11:30	05/28/21 12:00	
880-2575-5	SW-5	Solid	05/27/21 12:00	05/28/21 12:00	
880-2575-6	SW-6	Solid	05/27/21 12:30	05/28/21 12:00	
880-2575-7	SW-7	Solid	05/27/21 13:00	05/28/21 12:00	
880-2575-8	SW-8	Solid	05/27/21 13:30	05/28/21 12:00	
880-2575-9	BH-1	Solid	05/27/21 14:00	05/28/21 12:00	
880-2575-10	BH-2	Solid	05/27/21 14:30	05/28/21 12:00	
880-2575-11	BH-3	Solid	05/27/21 15:00	05/28/21 12:00	
880-2575-12	BH-4	Solid	05/27/21 15:30	05/28/21 12:00	
880-2575-13	BH-5	Solid	05/27/21 16:00	05/28/21 12:00	
880-2575-14	BH-6	Solid	05/27/21 16:30	05/28/21 12:00	

Analysis Request of Chain of Custody Record

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Tetra Tech, Inc.

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

5/31/2021

Client Name:	EOG	**Site Manager:**	Paula Tocora
Project Name:	Brown SWD #1	**Contact Info:**	Email Paula Tocora@tetratech com Phone (432) 687-8128
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02421
Invoice to:	James Kennedy (EOG)		
Receiving Laboratory:	Xenco Labs	**Sampler Signature:**	Colton Bickerstaff
Comments:			

880-2575 Chain of Custody

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB s 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	SW-1	05/27/21	1000		X			X		1	N	X		X												X					
	SW-2	05/27/21	1030		X			X		1	N	X		X												X					
	SW-3	05/27/21	1100		X			X		1	N	X		X												X					
	SW-4	05/27/21	1130		X			X		1	N	X		X												X					
	SW-5	05/27/21	1200		X			X		1	N	X		X												X					
	SW-6	05/27/21	1230		X			X		1	N	X		X												X					
	SW-7	05/27/21	1300		X			X		1	N	X		X												X					
	SW-8	05/27/21	1330		X			X		1	N	X		X												X					
	BH-1	05/27/21	1400		X			X		1	N	X		X												X					
	BH-2	05/27/21	1430		X			X		1	N	X		X												X					

Relinquished by	Date	Time	Received by	Date	Time
Andrew Garcia	28-May-21	1200	[signature]	5/28/21	1200
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

ORIGINAL COPY

LAB USE ONLY

Sample Temperature 5.5/6.0 +0.5

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Analysis Request of Chain of Custody Record

Loc: 880
2575

Page 2 of 2

Tetra Tech, Inc.

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

Client Name:	EOG	**Site Manager:**	Paula Tocora
Project Name:	Brown SWD #1	**Contact Info:**	Email Paula Tocora@tetratech com Phone (432) 687-8128
Project Location (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02421
Invoice to	James Kennedy (EOG)		
Receiving Laboratory:	Xenco Labs	**Sampler Signature:**	Colton Bickerstaff
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB s 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	BH-3	05/27/21	1500		X				X			1	N	X		X												X					
	BH-4	05/27/21	1530		X				X			1	N	X		X												X					
	BH-5	05/27/21	1600		X				X			1	N	X		X												X					
	BH-6	05/27/21	1630		X				X			1	N	X		X												X					

Relinquished by	Date	Time	Received by	Date	Time
Andrew Garcia	28-May-21	1200	Kahn	5/28/21	1200
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

LAB USE ONLY

Sample Temperature
5.5/6.0
+0.5

REMARKS:

- ☐ Standard
- ☒ RUSH Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-2575-1
SDG Number: Lea County, NM

Login Number: 2575
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-2733-1
Laboratory Sample Delivery Group: Lea County, NM
Client Project/Site: EOG - Brown SWD #1

For:
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Attn: Clair Gonzales

JKramer

Authorized for release by:
6/7/2021 4:43:23 PM

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

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

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

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-2733-1
Project/Site: EOG - Brown SWD #1 SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

Job ID: 880-2733-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-2733-1

Receipt
The samples were received on 6/4/2021 10:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C

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

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

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

Client Sample ID: BH-5

Lab Sample ID: 880-2733-1
Date Collected: 06/03/21 00:00
Matrix: Solid
Date Received: 06/04/21 10:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		06/04/21 15:00	06/04/21 23:48	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		06/04/21 15:00	06/04/21 23:48	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		06/04/21 15:00	06/04/21 23:48	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		06/04/21 15:00	06/04/21 23:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/21 15:00	06/04/21 23:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/04/21 15:00	06/04/21 23:48	1
Total BTEX	<0.00399	U F1	0.00399		mg/Kg		06/04/21 15:00	06/04/21 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/04/21 15:00*	*06/04/21 23:48*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/04/21 15:00*	*06/04/21 23:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/04/21 11:00	06/04/21 17:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/04/21 11:00	06/04/21 17:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/04/21 11:00	06/04/21 17:18	1
Total TPH	<49.8	U	49.8		mg/Kg		06/04/21 11:00	06/04/21 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*06/04/21 11:00*	*06/04/21 17:18*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/04/21 11:00*	*06/04/21 17:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1530**		25.0		mg/Kg			06/04/21 14:40	5

Client Sample ID: BH-6

Lab Sample ID: 880-2733-2
Date Collected: 06/03/21 00:00
Matrix: Solid
Date Received: 06/04/21 10:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/21 15:00	06/05/21 00:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/21 15:00	06/05/21 00:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/21 15:00	06/05/21 00:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/21 15:00	06/05/21 00:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/21 15:00	06/05/21 00:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/21 15:00	06/05/21 00:08	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/04/21 15:00	06/05/21 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/04/21 15:00*	*06/05/21 00:08*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/04/21 15:00*	*06/05/21 00:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/04/21 11:00	06/04/21 17:38	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

Client Sample ID: BH-6

Date Collected: 06/03/21 00:00
Date Received: 06/04/21 10:11

Lab Sample ID: 880-2733-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/04/21 11:00	06/04/21 17:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/04/21 11:00	06/04/21 17:38	1
Total TPH	<50.0	U	50.0		mg/Kg		06/04/21 11:00	06/04/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/04/21 11:00*	*06/04/21 17:38*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/04/21 11:00*	*06/04/21 17:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1450**		24.9		mg/Kg			06/04/21 14:45	5

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-2733-1	BH-5	109	100										
880-2733-1 MS	BH-5	121	93										
880-2733-1 MSD	BH-5	113	97										
880-2733-2	BH-6	116	101										
LCS 880-3773/1-B	Lab Control Sample	110	98										
LCSD 880-3773/2-B	Lab Control Sample Dup	110	97										
MB 880-3773/5-B	Method Blank	110	93										
MB 880-3785/5-A	Method Blank	112	94										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-2733-1	BH-5	120	119										
880-2733-2	BH-6	97	99										
LCS 880-3796/2-A	Lab Control Sample	101	94										
LCSD 880-3796/3-A	Lab Control Sample Dup	101	92										
MB 880-3796/1-A	Method Blank	100	105										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3773/5-B
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/21 15:00	06/04/21 23:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/21 15:00	06/04/21 23:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/21 15:00	06/04/21 23:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/21 15:00	06/04/21 23:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/21 15:00	06/04/21 23:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/21 15:00	06/04/21 23:19	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/04/21 15:00	06/04/21 23:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/04/21 15:00*	*06/04/21 23:19*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/04/21 15:00*	*06/04/21 23:19*	*1*

Lab Sample ID: LCS 880-3773/1-B
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3773

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09156		mg/Kg		92	70 - 130		
Toluene			0.100	0.1021		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1030		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.2105		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1071		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-3773/2-B
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3773

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09035		mg/Kg		90	70 - 130	1	35
Toluene			0.100	0.1011		mg/Kg		101	70 - 130	1	35
Ethylbenzene			0.100	0.1031		mg/Kg		103	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2117		mg/Kg		106	70 - 130	1	35
o-Xylene			0.100	0.1087		mg/Kg		109	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-2733-1 MS
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: BH-5
Prep Type: Total/NA
Prep Batch: 3773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.101	0.05158	F1	mg/Kg		51	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

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

Lab Sample ID: 880-2733-1 MS
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: BH-5
Prep Type: Total/NA
Prep Batch: 3773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00200	U F1	0.101	0.06648	F1	mg/Kg		66	70 - 130
Ethylbenzene	<0.00200	U F1	0.101	0.06491	F1	mg/Kg		64	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1393	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00200	U	0.101	0.07314		mg/Kg		72	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-2733-1 MSD
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: BH-5
Prep Type: Total/NA
Prep Batch: 3773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.06251	F1	mg/Kg		63	70 - 130	19	35
Toluene	<0.00200	U F1	0.0994	0.07301		mg/Kg		73	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.0994	0.07326		mg/Kg		74	70 - 130	12	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1534		mg/Kg		77	70 - 130	10	35
o-Xylene	<0.00200	U	0.0994	0.07876		mg/Kg		79	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-3785/5-A
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/21 08:28	06/04/21 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/21 08:28	06/04/21 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/21 08:28	06/04/21 11:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/21 08:28	06/04/21 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/21 08:28	06/04/21 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/21 08:28	06/04/21 11:43	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/04/21 08:28	06/04/21 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/04/21 08:28*	*06/04/21 11:43*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/04/21 08:28*	*06/04/21 11:43*	*1*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-3796/1-A
Matrix: Solid
Analysis Batch: 3802

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/04/21 11:00	06/04/21 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/04/21 11:00	06/04/21 15:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/04/21 11:00	06/04/21 15:13	1
Total TPH	<50.0	U	50.0		mg/Kg		06/04/21 11:00	06/04/21 15:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/04/21 11:00*	*06/04/21 15:13*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/04/21 11:00*	*06/04/21 15:13*	*1*

Lab Sample ID: LCS 880-3796/2-A
Matrix: Solid
Analysis Batch: 3802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	925.2		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1084		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-3796/3-A
Matrix: Solid
Analysis Batch: 3802

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3796

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	915.1		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1067		mg/Kg		107	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3725/1-A
Matrix: Solid
Analysis Batch: 3799

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/04/21 13:31	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3725/2-A
Matrix: Solid
Analysis Batch: 3799

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-3725/3-A
Matrix: Solid
Analysis Batch: 3799

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.8		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

GC VOA

Prep Batch: 3773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2733-1	BH-5	Total/NA	Solid	5035	
880-2733-2	BH-6	Total/NA	Solid	5035	
MB 880-3773/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-3773/1-B	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3773/2-B	Lab Control Sample Dup	Total/NA	Solid	5035	
880-2733-1 MS	BH-5	Total/NA	Solid	5035	
880-2733-1 MSD	BH-5	Total/NA	Solid	5035	

Prep Batch: 3785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3785/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 3786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2733-1	BH-5	Total/NA	Solid	8021B	3773
880-2733-2	BH-6	Total/NA	Solid	8021B	3773
MB 880-3773/5-B	Method Blank	Total/NA	Solid	8021B	3773
MB 880-3785/5-A	Method Blank	Total/NA	Solid	8021B	3785
LCS 880-3773/1-B	Lab Control Sample	Total/NA	Solid	8021B	3773
LCSD 880-3773/2-B	Lab Control Sample Dup	Total/NA	Solid	8021B	3773
880-2733-1 MS	BH-5	Total/NA	Solid	8021B	3773
880-2733-1 MSD	BH-5	Total/NA	Solid	8021B	3773

GC Semi VOA

Prep Batch: 3796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2733-1	BH-5	Total/NA	Solid	8015NM Prep	
880-2733-2	BH-6	Total/NA	Solid	8015NM Prep	
MB 880-3796/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3796/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2733-1	BH-5	Total/NA	Solid	8015B NM	3796
880-2733-2	BH-6	Total/NA	Solid	8015B NM	3796
MB 880-3796/1-A	Method Blank	Total/NA	Solid	8015B NM	3796
LCS 880-3796/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3796
LCSD 880-3796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3796

HPLC/IC

Leach Batch: 3725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2733-1	BH-5	Soluble	Solid	DI Leach	
880-2733-2	BH-6	Soluble	Solid	DI Leach	
MB 880-3725/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3725/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3725/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

HPLC/IC

Analysis Batch: 3799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2733-1	BH-5	Soluble	Solid	300.0	3725
880-2733-2	BH-6	Soluble	Solid	300.0	3725
MB 880-3725/1-A	Method Blank	Soluble	Solid	300.0	3725
LCS 880-3725/2-A	Lab Control Sample	Soluble	Solid	300.0	3725
LCSD 880-3725/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3725

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

Client Sample ID: BH-5

Date Collected: 06/03/21 00:00
Date Received: 06/04/21 10:11

Lab Sample ID: 880-2733-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3773	06/04/21 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3786	06/04/21 23:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3796	06/04/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3802	06/04/21 17:18	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3725	06/04/21 11:42	CH	XEN MID
Soluble	Analysis	300.0		5			3799	06/04/21 14:40	CH	XEN MID

Client Sample ID: BH-6

Date Collected: 06/03/21 00:00
Date Received: 06/04/21 10:11

Lab Sample ID: 880-2733-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3773	06/04/21 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3786	06/05/21 00:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3796	06/04/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3802	06/04/21 17:38	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3725	06/04/21 11:42	CH	XEN MID
Soluble	Analysis	300.0		5			3799	06/04/21 14:45	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: EOG - Brown SWD #1

Job ID: 880-2733-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-2733-1	BH-5	Solid	06/03/21 00:00	06/04/21 10:11	
880-2733-2	BH-6	Solid	06/03/21 00:00	06/04/21 10:11	

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

880-2733 Chain of Custody

2733

Page 1 of 1

Fax (432) 682-3946

Client Name	EOG
Site Manager	Paula Tocoro Alonso
Project Name	Brown SWD #1
Project Location (county, state)	Lea County, NM
Project #	212C-MD-02419 Task 2901
Invoice to	EOG - Attn. James Kennedy
Receiving Laboratory	Xenco/Eurofins
Sampler Signature	Adrian Garcia
Comments	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	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				Hold
	BH-5	6/3/2021			X				X			1	N	X		X												X							
	BH-6	6/3/2021			X				X			1	N	X		X												X							

Relinquished by: Date 6/4/21 Time 1011

Received by: Date 6/4/21 Time 1011

Relinquished by: Date Time

Received by: Date Time

Relinquished by Date Time

Received by: Date Time

LAB USE ONLY

Sample Temperature 1.8/2.3 +0.5

REMARKS:

[X] RUSH Same Day (24 hr) 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-2733-1
SDG Number: Lea County, NM

Login Number: 2733
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

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

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

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

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 55312
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	nGRL1013837522 This incident is closed.	11/1/2021