SITE INFORMATION

Report Type: Closure Report (2RP-2066)

General Site Information:						
Site:	**Llama All Federal #1**					
Company:	**EOG Resources**					
Section, Township and Range	**Unit M**	**Sec. 7**	**T 22S**	**R 31E**		
County:	**Eddy County, NM**					
GPS:	**32.39964**			**-103.823075**		
Surface Owner:	**Federal**					

Release Data:	
Date Released:	10/30/2013
Type Release:	Oil
Source of Contamination:	Tank overflowed.
Fluid Released:	10 bbls. of Oil
Fluids Recovered:	No Fluids recovered.

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:	*>55' 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*	*10,000 mg/kg*

TETRA TECH

November 29, 2021

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

Re: Closure Report
EOG Resources
Llama ALL Federal #1
Unit M, Section 07, Township 22 South, Range 31 East
Eddy County, New Mexico
2RP-2066

Mr. Billings:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release at the EOG Llama ALL Federal #1 (API No. 30-015-28093). The release footprint is located in the Public Land Survey System (PLSS) Unit M, Section 07, Township 22 South, Range 31 East, Eddy County, New Mexico (Site). The Site coordinates are 32.39957º, - 103.82199º. The site location is shown in Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release occurred on October 30, 2013 as a result of a tank over flowed. The release consisted of 10 barrels (bbls.) affecting an approximate area of 3 feet. (ft.) by 30 ft. around the tank. During immediate response, tanks were switched and called for initial clean up. No free fluids were recovered. The initial C-141 report was submitted on November 13, 2013, to the New Mexico Oil Conservation District (NMOCD). The release was subsequently assigned the Remediation Permit (RP) number 2RP-2066. 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 low karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 30, approximately 2.24 miles southeast of the site, and has a reported depth to groundwater of 124.0 feet below ground surface last sample in 1978. In addition, according to the New Mexico Office of the State Engineer, there are no water wells within 800 meters (½ miles) radius. However, there are thirty-six (36) water wells located within 4,200 meters (approximately 2.6 miles) of the Site. On October 25, 2021 a groundwater determination borehole was drilled, and no groundwater was encountered at 55 ft. The average depth to groundwater is >51 ft. bgs. Site

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

characterization data is included in Appendix B.

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 10,000 mg/kg.

Soil Assessment and Analytical Results

Between April 20 and July 14, 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 and a photoionization detector for hydrocarbon detection to determine sampling intervals. A total of seven (7) auger holes (AH-1 through AH-9) were advanced to a depth from surface to 5 ft. bgs. A total of four (4) horizontal samples (H-N, H-S, H-W and H-E) were installed along the perimeter of the release footprint to a depth from the surface to 0.5 ft. bgs. A total of twenty (20) 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 C. 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 locations (AH-1, AH-4, AH-6,and AH-7) exceeded the site RRALs for TPH (2,500 mg/kg) at depths ranging from surface to 1 ft. bgs. All the reminder samples were below site RRALs for chloride (10,000 mg/kg), TPH (2,500 mg/kg), BTEX (50 m/kg) and benzene (10 mg/kg).

On October 25, 2021, Tetra Tech personnel were on-site to delineate the area between AH-6 and AH-1. One borehole (BH-1) was advanced within the release area. The borehole was drilled to 20 ft. bgs, and seven (7) samples were collected to the intervals from surface to 1 ft. bgs., 2-3 ft. bgs, 4-5 ft. bgs., 6-7 ft. bgs., 9-10 ft. bgs., 14-15 ft. bgs., and 19-20 ft. bgs. The 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 C. The results of the sampling are summarized in Table 1.

Referring to table 2, All the samples were below site RRALs for chloride (10,000 mg/kg), TPH (2,500 mg/kg), BTEX (50 m/kg) and benzene (10 mg/kg).

Remediation Activities

Between October 25 and November 9, 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. During the remediation activities, four (4) impacted areas and subsequently excavations were established. The impacted areas were excavated to the appropriate depth of 5

ft. bgs. The excavated areas are shown in Figure 4. Once the excavations were completed, confirmation samples were collected every 200 sq. ft. Five (5) bottom holes samples (BH-1 through BH-5) were collected in the excavated areas, sixteen (16) sidewalls samples (SW-1 through SW-16) were collected from each side of the excavations, representative samples (SW-1, SW-3, SW-6, SW-10 and SW-16) were collected specifically at the depth interval from 4 ft to 5 ft. (bottom of the excavation) where the highest contaminant level was detected. A total of twenty-one (21) 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 C. The results of the sampling are summarized in Table 2.

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

The excavations were all backfilled with clean soil material. Approximately 150 cubic yards of material was transported offsite for proper disposal.

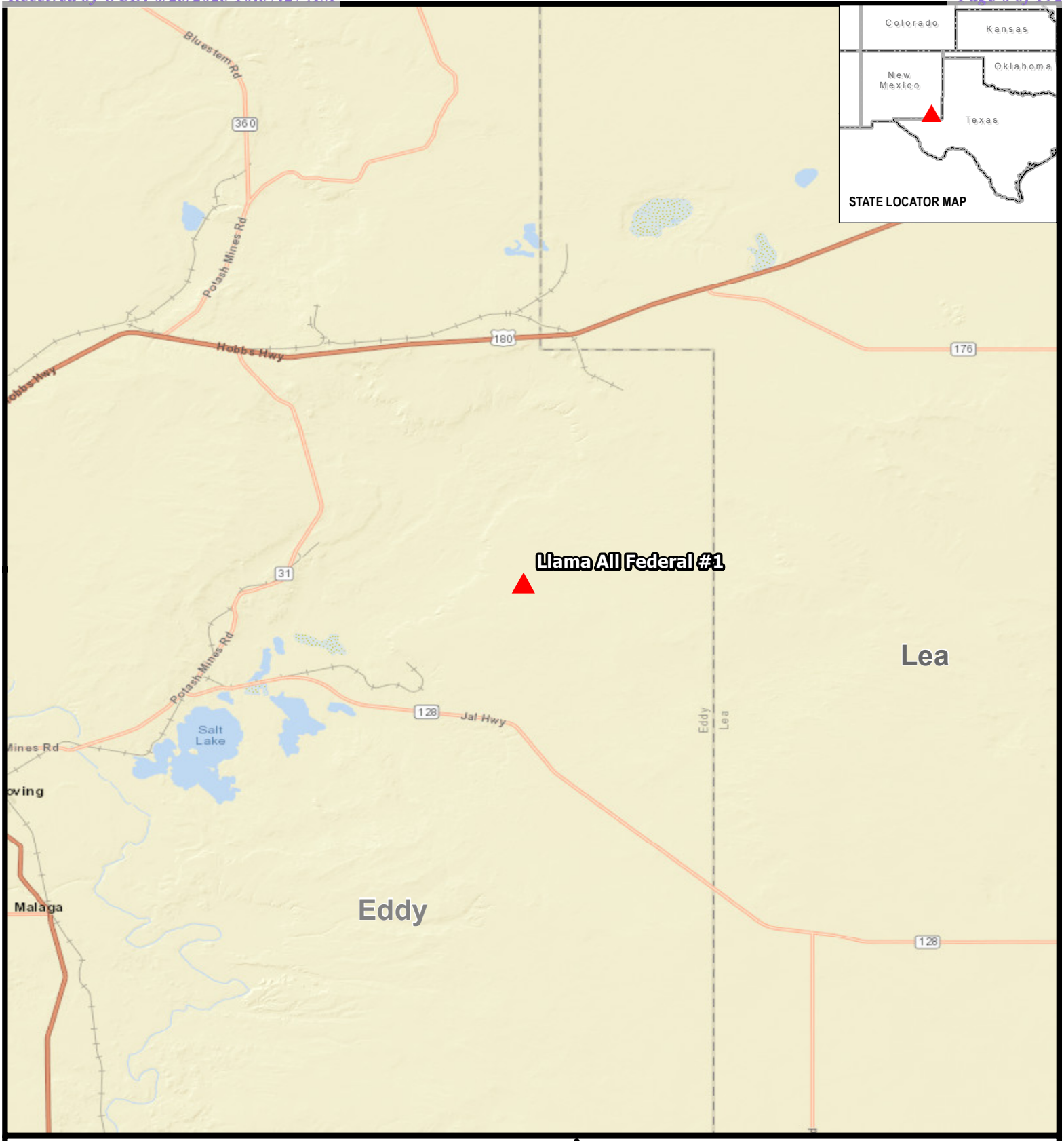
Conclusion

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
Environmental Engineer I
Tetra Tech, Inc

Figures



SITE LOCATION

N
W E
S

0 2.5 5 Miles

Approximate Scale

Service Layer Credits: ESRI Basemap - Streets, 2021.

OVERVIEW MAP
LLAMA ALL FEDERAL #1
Property located at coordinates 32.399639°, -103.823075°
EDDY COUNTY, NEW MEXICO

eog resources

Project #:
212C-MD-02419

FIGURE
1

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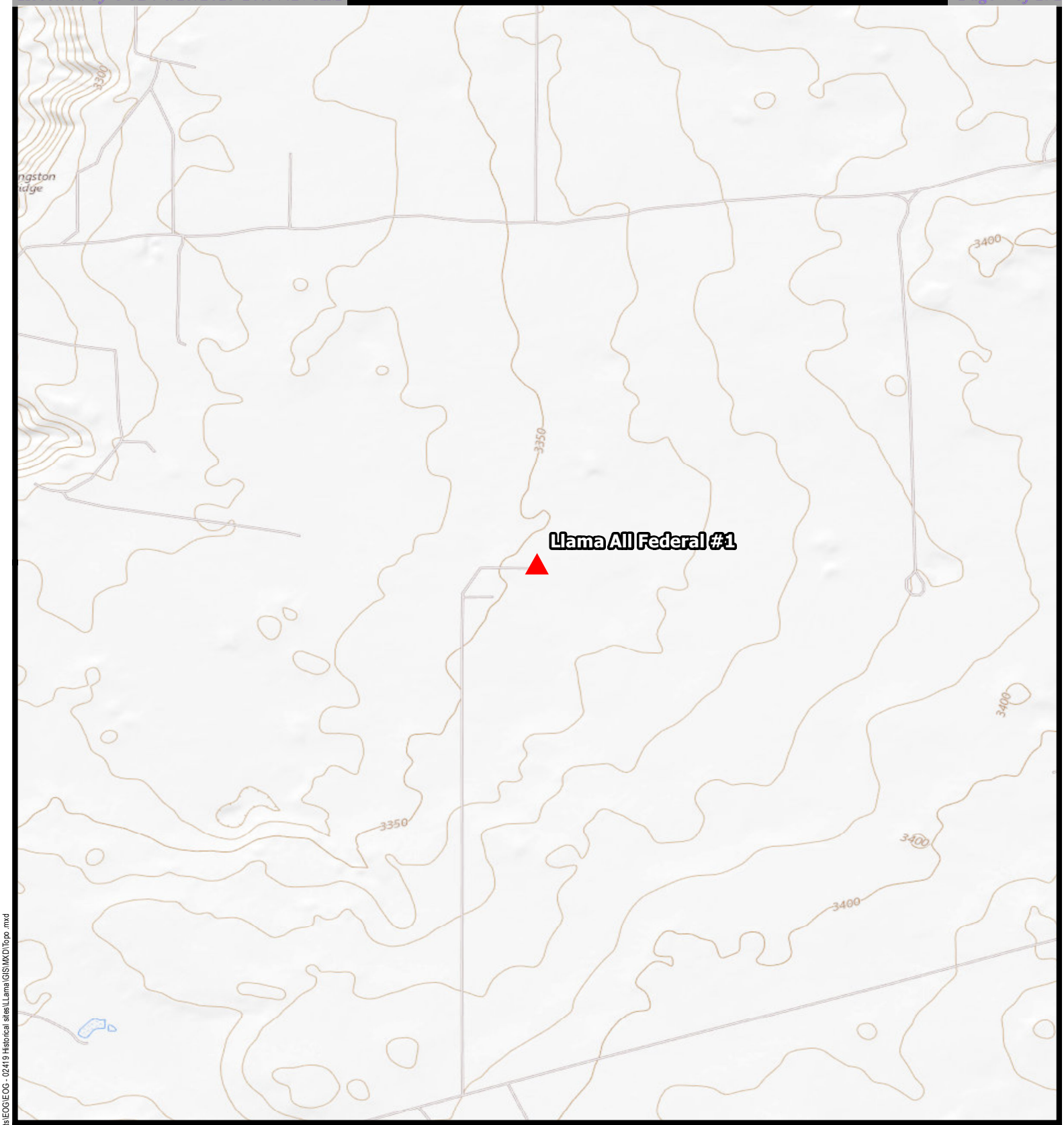


SITE LOCATION

N
W
E
S

0 1,100 2,200 Feet

Approximate Scale

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

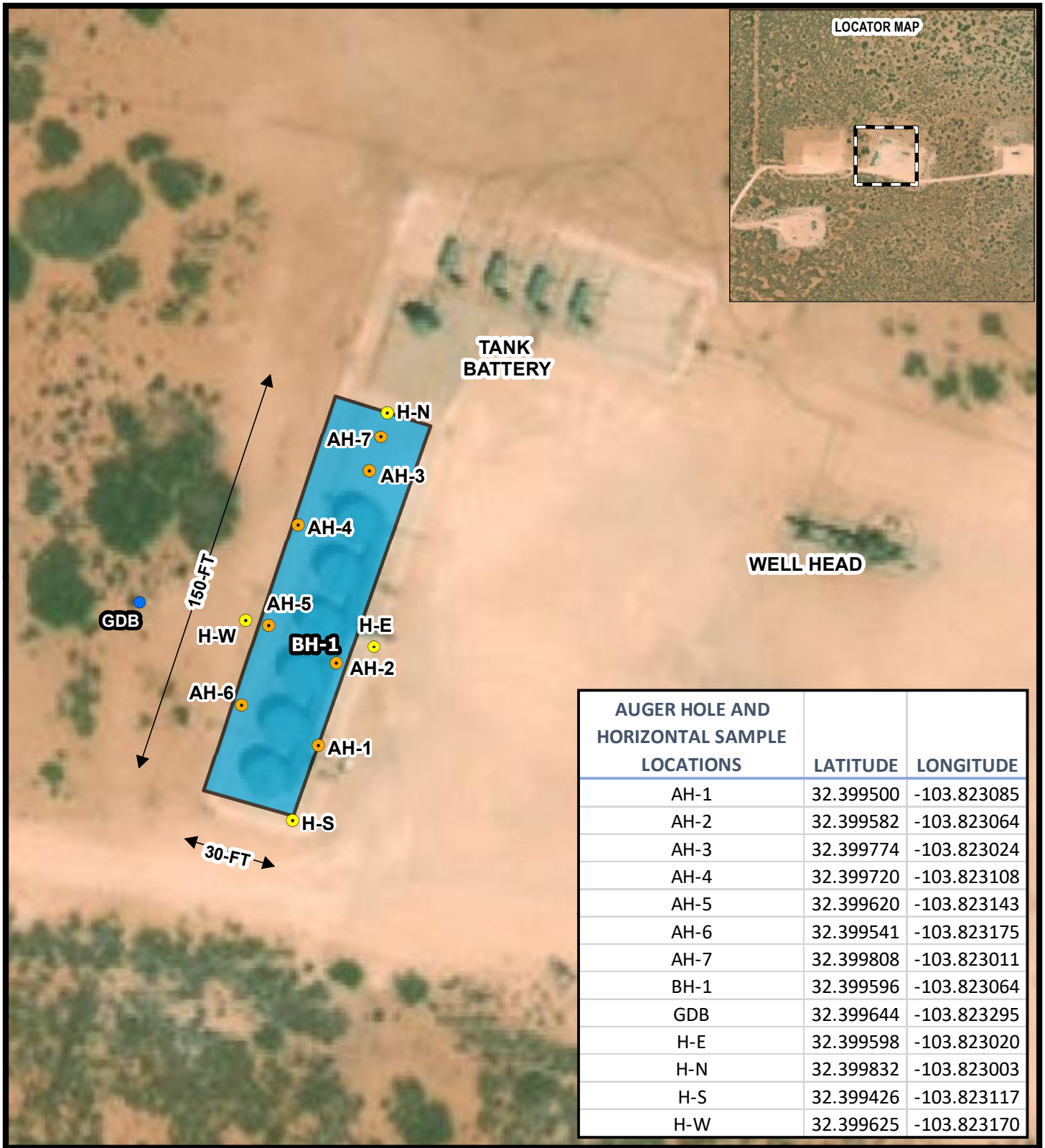
TOPOGRAPHIC MAP
LLAMA ALL FEDERAL #1
Property located at coordinates 32.399639°, -103.823075°
EDDY COUNTY, NEW MEXICO

eog resources

Project #:
212C-MD-02419

FIGURE
2

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



AUGER HOLE AND HORIZONTAL SAMPLE LOCATIONS	LATITUDE	LONGITUDE
AH-1	32.399500	-103.823085
AH-2	32.399582	-103.823064
AH-3	32.399774	-103.823024
AH-4	32.399720	-103.823108
AH-5	32.399620	-103.823143
AH-6	32.399541	-103.823175
AH-7	32.399808	-103.823011
BH-1	32.399596	-103.823064
GDB	32.399644	-103.823295
H-E	32.399598	-103.823020
H-N	32.399832	-103.823003
H-S	32.399426	-103.823117
H-W	32.399625	-103.823170

AUGER HOLE SAMPLE LOCATION
BH BOTTOM HOLE SAMPLE LOCATION
GROUNDWATER DETERMINATION BOREHOLE
HORIZONTAL SAMPLE LOCATION
SPILL FOOTPRINT

N
W E
S

0 25 50 Feet
Approximate Scale in Feet

Source: ESRI Basemap - Imagery, 2019.

RELEASE ASSESSMENT AND BORING LOCATION MAP
LLAMA ALL FEDERAL #1
Property Located at coordinates 32.399639°, -103.823075°
EDDY COUNTY, NEW MEXICO

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Project #:
212C-MD-02419

FIGURE
3

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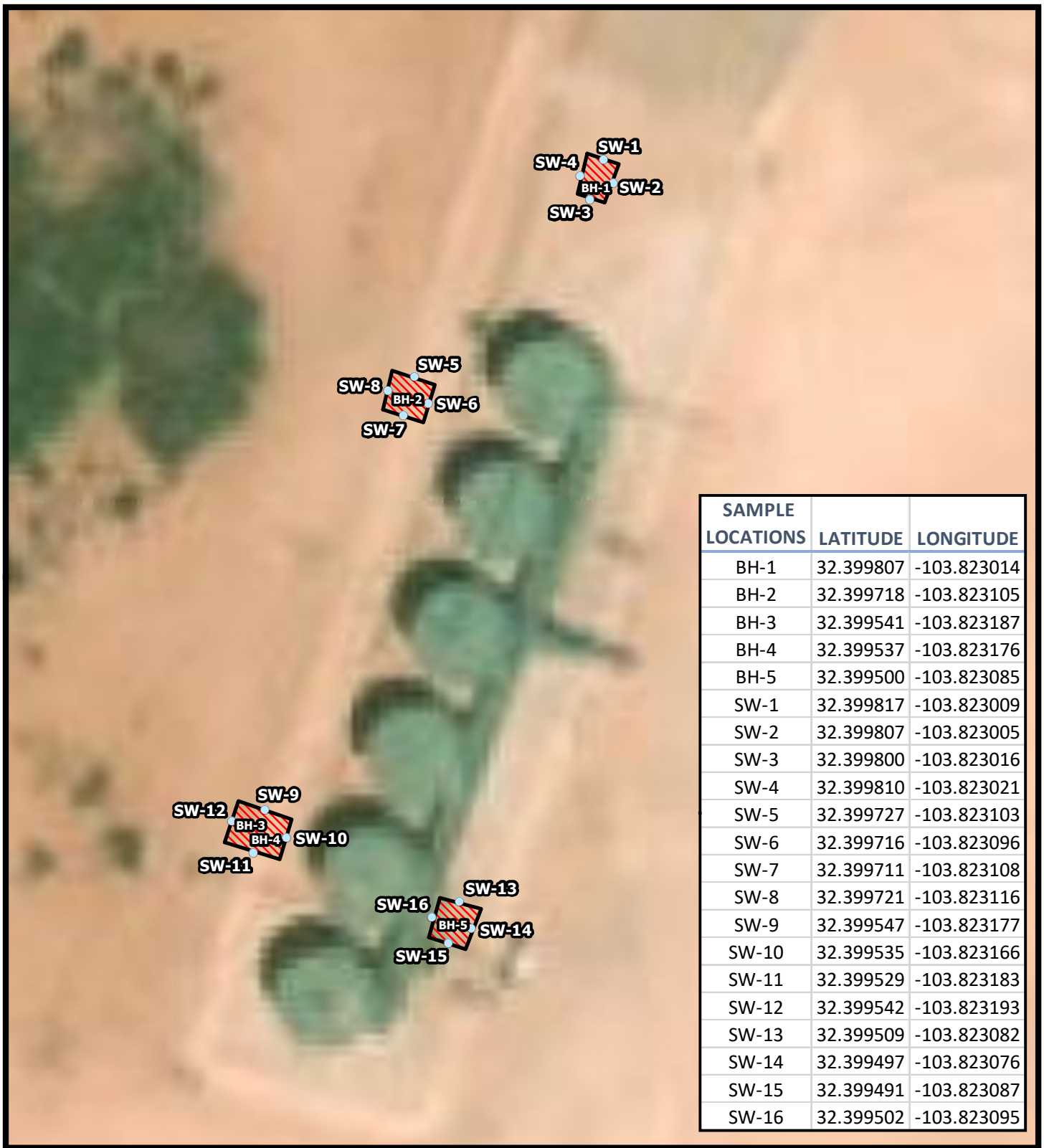

SAMPLE LOCATIONS	LATITUDE	LONGITUDE
BH-1	32.399807	-103.823014
BH-2	32.399718	-103.823105
BH-3	32.399541	-103.823187
BH-4	32.399537	-103.823176
BH-5	32.399500	-103.823085
SW-1	32.399817	-103.823009
SW-2	32.399807	-103.823005
SW-3	32.399800	-103.823016
SW-4	32.399810	-103.823021
SW-5	32.399727	-103.823103
SW-6	32.399716	-103.823096
SW-7	32.399711	-103.823108
SW-8	32.399721	-103.823116
SW-9	32.399547	-103.823177
SW-10	32.399535	-103.823166
SW-11	32.399529	-103.823183
SW-12	32.399542	-103.823193
SW-13	32.399509	-103.823082
SW-14	32.399497	-103.823076
SW-15	32.399491	-103.823087
SW-16	32.399502	-103.823095

BH BOTTOM HOLE SAMPLE LOCATION

SIDEWALL DESIGNATION

5' EXCAVATION DEPTH

N
W E
S

0 12.5 25 Feet

Approximate Scale in Feet

Source: ESRI Basemap - Imagery, 2019.

EXCAVATION AREA AND DEPTH MAP
LLAMA ALL FEDERAL #1
Property Located at coordinates 32.399639°, -103.823075°
EDDY COUNTY, NEW MEXICO

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Project #:
212C-MD-02419

FIGURE
4

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Tables

Table 1
EOG
Llama ALL Federal #1
Eddy 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	4/20/2021	0-0.5	X	-	<50.0	57.3	<50.0	57.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,650
	"	0.5-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,070
AH-1	7/14/2021	0-1	-	X	<250	**1,190**	<250	**1,190**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	3,660
AH-2	4/20/2021	4.5-5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	46.0
AH-3	4/20/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	947
	"	0.5-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,570
AH-3	7/14/2021	0-1	X	-	<49.9	337	<49.9	337	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,250
AH-4	4/20/2021	0-0.5	X	-	<50.0	139	<50.0	139	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	648
AH-4	7/14/2021	0-1	-	X	<249	**3,260**	<249	**3,260**	0.00244	0.118	0.0346	0.166	0.321	1,920
AH-5	4/20/2021	0-0.5	-	X	<49.9	**1,290**	<49.9	**1,290**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,570
AH-5	7/14/2021	0-1	X	-	<250	643	<250	643	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	887
AH-6	4/20/2021	0-0.5	-	X	<49.8	**3,140**	<49.8	**3,140**	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	4,550
AH-6	7/14/2021	0-1	-	X	<250	**2,430**	<250	**2,430**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,330
AH-7	7/14/2021	0-1	-	X	<250	**1,500**	<250	**1,500**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	823
H-E	4/20/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	80.4
H-N	4/20/2021	0-0.5	X	-	<49.9	264	<49.9	264	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,330
H-N	7/14/2021	0-0.5	X	-	<250	506	<250	506	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	385
H-S	4/20/2021	0-0.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	6,020
H-S	7/14/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	37.2
H-W	4/20/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	393

(-) Not Analyzed

Exceeded RRALs

Table 2
EOG
Llama ALL Federal #1
Eddy County, NM

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*	10/25/2021	0-1	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	23.8
	"	2-3	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	14.8
	"	4-5	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	16.9
	"	6-7	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	30.1
	"	10	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	698
	"	15	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,420
	"	20	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	92.7
BH-1	11/9/2021	5	-	X	-	<50.0	298	65.3	363	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	392
BH-2	11/9/2021	5	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	251
BH-3	11/9/2021	5	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	6.49
BH-4	11/9/2021	5	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	7.62
BH-5	11/9/2021	5	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	181
SW-1	11/9/2021	5	-	X	-	<49.7	264	57.4	321	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	431
SW-2	11/9/2021	5	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	325
SW-3	11/9/2021	5	-	X	-	<49.9	160	<49.9	160	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	461
SW-4	11/9/2021	5	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	502
SW-5	11/9/2021	5	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	329
SW-6	11/9/2021	5	-	X	-	<50.0	155	<50.0	155	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	884
SW-7	11/9/2021	5	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	617
SW-8	11/9/2021	5	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	291
SW-9	11/9/2021	5	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	11.0
SW-10	11/9/2021	5	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	812
SW-11	11/9/2021	5	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	17.7
SW-12	11/9/2021	5	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5.96
SW-13	11/9/2021	5	-	X	-	<49.9	65.2	<49.9	65.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	153
SW-14	11/9/2021	5	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	327
SW-15	11/9/2021	5	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	102
SW-16	11/9/2021	5	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	0.00567	<0.00201	<0.00402	0.00567	832

(-) Not Analyzed
Excavated
BH-1* Borehole drilled for vertical delineation

Boring Logs

212C-MD-02419 task 2600 | TETRA TECH

LOG OF BORING BH-1

Page 1 of 1

Project Name: Llama All Federal #1

Borehole Location: GPS Coordinates: 32.399597, -103.823064 | Surface Elevation (ft. MSL): 3349

Borehole Number: BH-1 | Borehole Diameter (in.): 6 | Date Started: 10/25/2021 | Date Completed: 10/25/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ SE ft Upon Completion of Drilling ▼ 20 ft

Remarks:

DEPTH (ft)	OPERATION TYPES	SAMPLE	BENZENE CONCENTRATION ppm	PID (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			0.1	85.8								**-SP-** TOPSOIL/SAND: Red with Brown, Dense, Dry, Some Caliche	2	See Laboratory Results Table
			1.3	46.2								**-SP-** SAND: Reddish Brown, Dense, Dry, Fine/Very Fine Grained Sand		
			0.1	25.4										
			3	100										
10			0.6	612										
			0	2060										
20			0.1	198									20	

Bottom of borehole at 20.0 feet.

Sampler Types: Split Spoon, Penetrometer, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Core Barrel, Wash Rotary, Drive Casing

Notes:
Surface elevation is an estimated value based on Google Earth data.

Logger: Barit Bickerstaff | Drilling Equipment: Mobile Drill B61HDX | Driller: Scarborough Drilling

212C-MD-02419 task 2600 | TETRA TECH

LOG OF BORING GDB

Page 1 of 1

Project Name: Llama All Federal #1

Borehole Location: GPS Coordinates: 32.399644, -103.823294 | Surface Elevation (ft. MSL): 3349

Borehole Number: GDB | Borehole Diameter (in.): 6 | Date Started: 10/25/2021 | Date Completed: 10/25/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ SE ft Upon Completion of Drilling ▼ 55 ft

Remarks:

DEPTH (ft)	OPERATION TYPES	SAMPLE	BENZENE CONCENTRATION ppm	PID (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
10												**-SP-** TOPSOIL/SAND: Red with Brown, Dense, Dry, Some Caliche	2	
20												**-SP-** SAND: Reddish Brown, Dense, Dry, Fine/Very Fine Grained Sand		
30														
40														
50													55	

Sampler Types: Split Spoon, Penetrometer, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Core Barrel, Wash Rotary, Drive Casing

Notes:

Bottom of borehole at 55.0 feet.
Surface elevation is an estimated value based on Google Earth data.

Logger: Barit Bickerstaff | Drilling Equipment: Mobile Drill B61HDX | Driller: Scarborough Drilling

Photos

EOG Resources
Llama All Federal #1
Eddy County, New Mexico

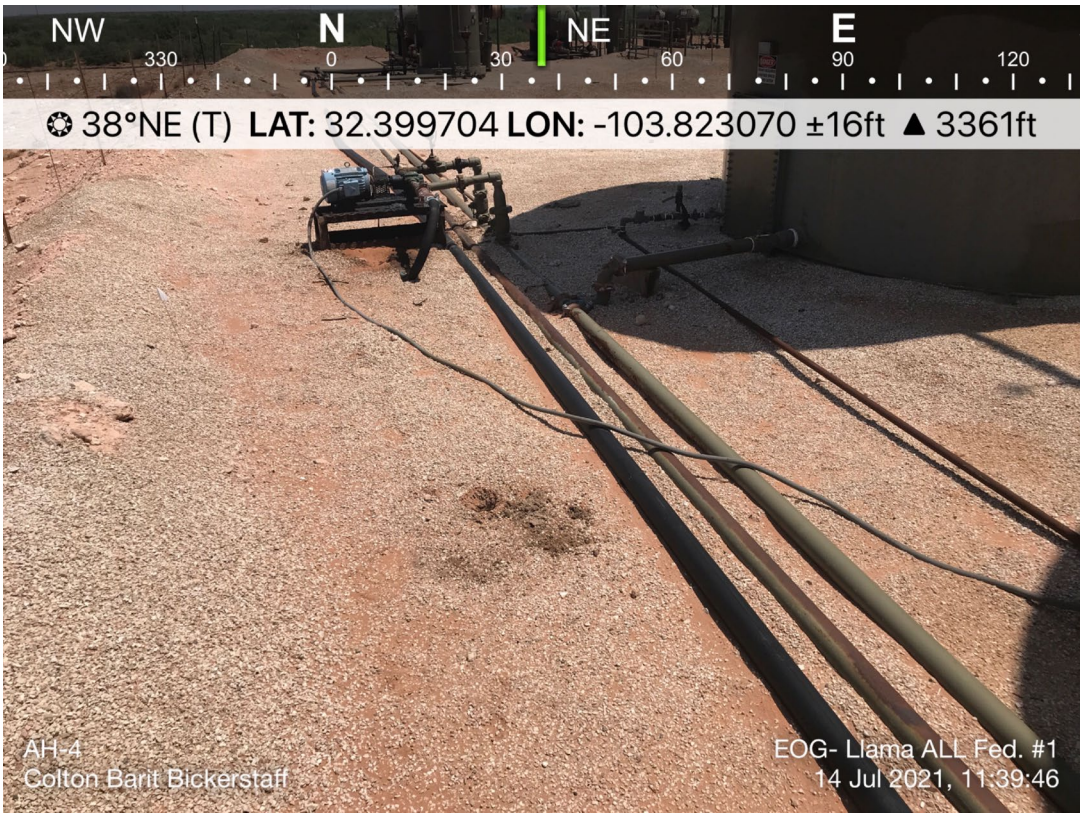
TETRA TECH

View of Release Area – View South

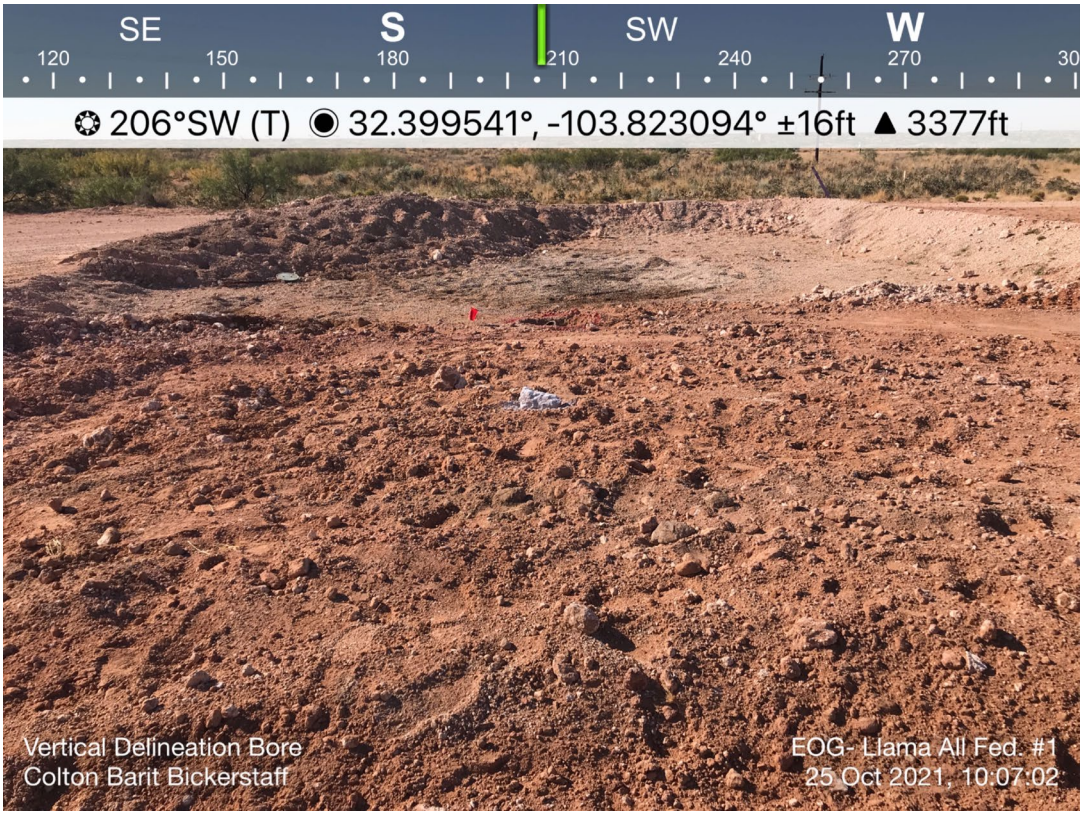
View of Release Area – View Northwest

EOG Resources
Llama All Federal #1
Eddy County, New Mexico

TETRA TECH



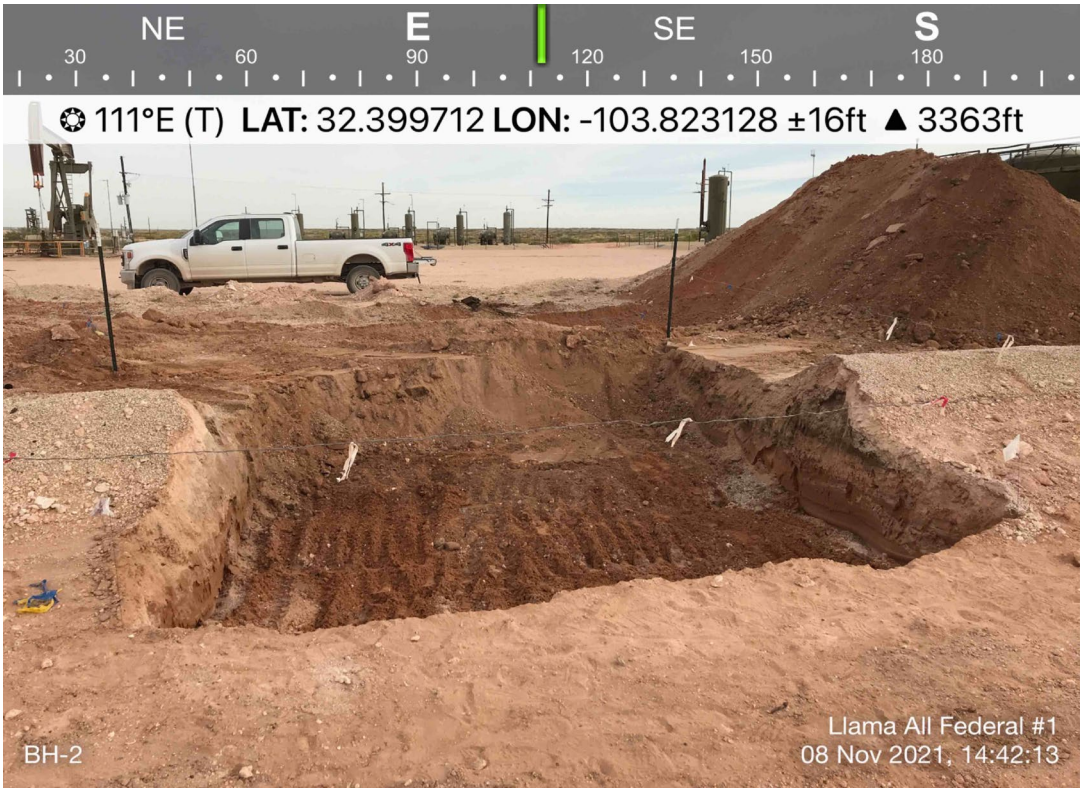
View of Release Area – View North



View of Release Area – View South

EOG Resources
Llama All Federal #1
Eddy County, New Mexico

TETRA TECH



View of Remediation Activities – View East

View of Remediation Activities – View East

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

nJMW1331951983

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Lupe Carrasco
Address		Telephone No.
104 S. 4TH Street		575-748-1471
Facility Name	API Number	Facility Type
Llama ALL Federal #1	30-015-28093	Battery

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-81952

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	7	22S	31E	330'	South	950'	West	Eddy

Latitude 32.39957 **Longitude** -103.82199

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Crude Oil	10 B/O	0 B/O
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Tank	10/30/13 AM	10/30/13 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

RECEIVED
NOV 14 2013
NMOCD ARTESIA

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

Describe Cause of Problem and Remedial Action Taken.*
Tank over flowed. Switched tanks and called for initial clean up.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 3' X 30'around tank was impacted. Impacted soils to be scraped up and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX, Chlorides will be run for documentation. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted. **Depth to Ground Water: >100' (approximately 150', Section 7-T22S-R31E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

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: Lupe Carrasco

Printed Name: Lupe Carrasco

Title: Environmental Regulatory Agent

E-mail Address: lcarrasco@yatespetroleum.com

Date: Wednesday, November 13, 2013 Phone: 575-748-1471

OIL CONSERVATION DIVISION

Approved by District Supervisor: Signed By Mike Bratcher

Approval Date: NOV 15 2013 Expiration Date:

Conditions of Approval:
Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: December 15, 2013

Attached ☐

2RP-2066

* Attach Additional Sheets If Necessary

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: Shelly Wells Date: 6/23/2023

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: Shelly Wells Date: 6/23/2023

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: _____ Date: 07/10/2023

Printed Name: Jocelyn Harimon Title: Environmental Specialist

Appendix B

2RP-2066

3/23/2021, 8:59:01 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

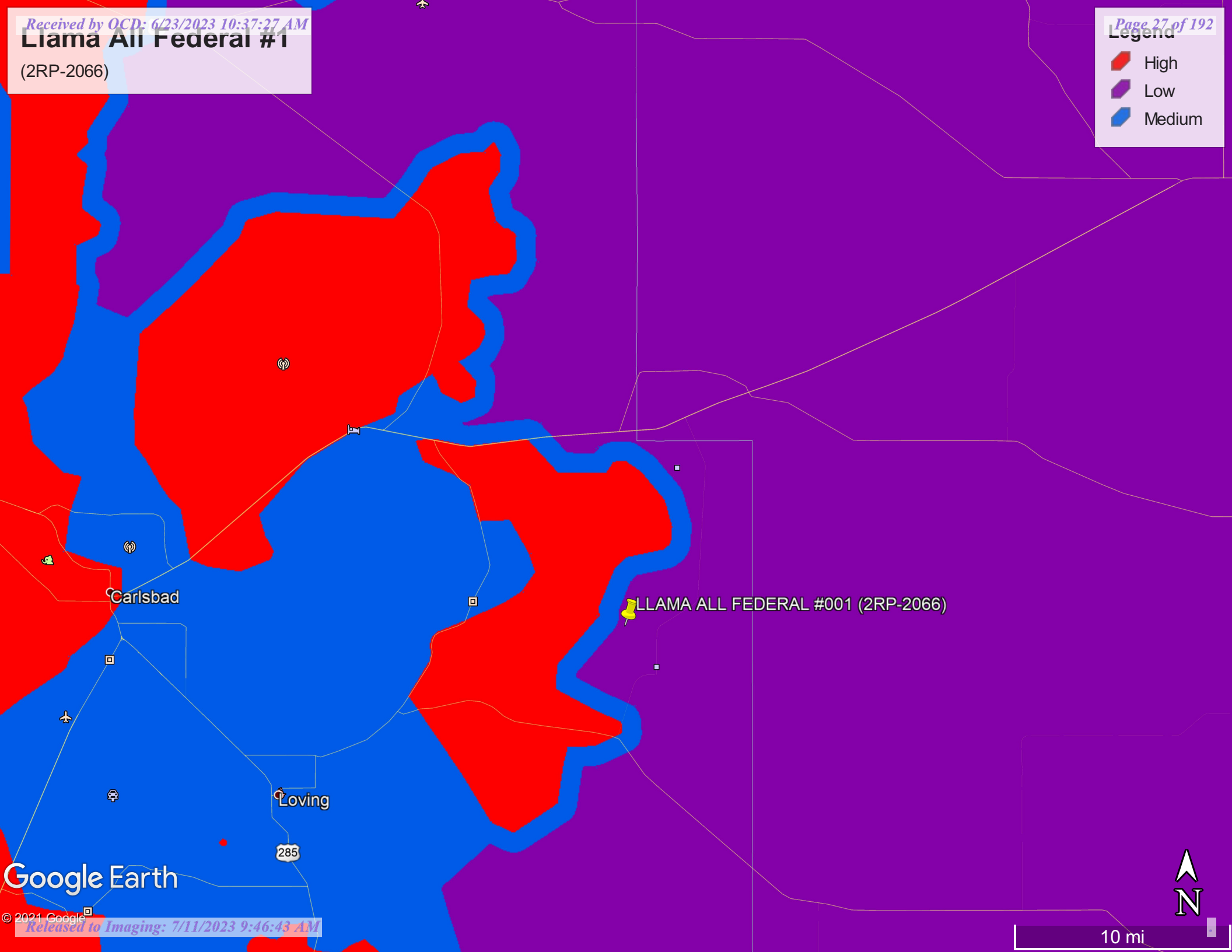
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin,

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

Llama All Federal #1

(2RP-2066)



New Mexico NFHL Data

March 23, 2021

1:72,224

0 0.5 1 2 mi

0 1 2 4 km

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

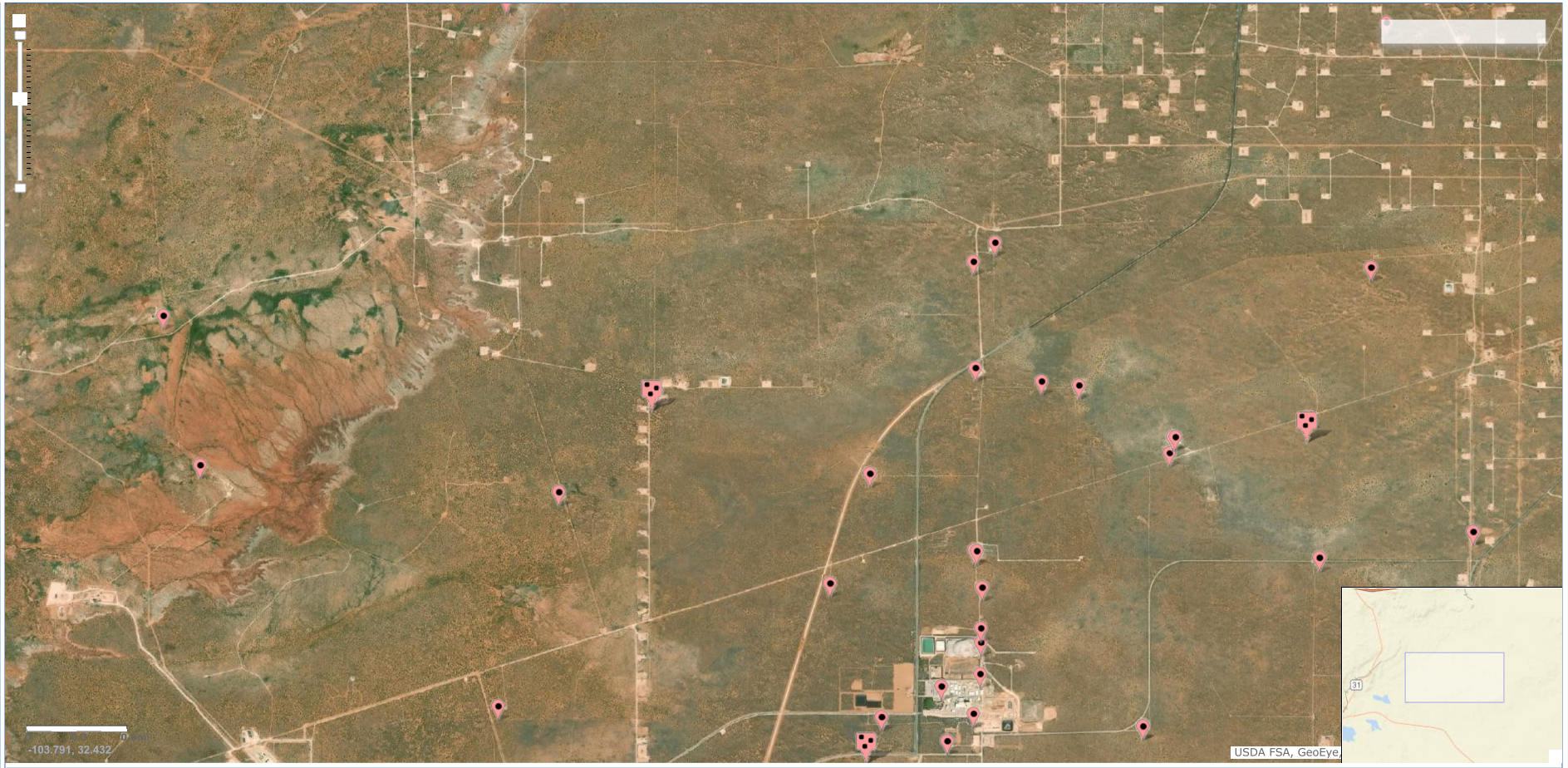
nmflood.org is made possible through a collaboration with NMDHSEM, EDAC, and FEMA

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

USGS science for a changing world

National Water Information System: Mapper

Help Info



Site Information

National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322253103472901

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

USGS 322253103472901 22S.31E.20.244 WIPP-18

Eddy County, New Mexico
Latitude 32°22'52.96", Longitude 103°47'28.65" NAD83
Land-surface elevation 3,455 feet above NAVD88
The depth of the hole is 1,060 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national 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
1978-03-30		D	62610		3329.37	NGVD29	1	O	USGS	S	A
1978-03-30		D	62611		3331.00	NAVD88	1	O	USGS	S	A
1978-03-30		D	72019	124.00			1	O	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
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	O	Observed.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

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
C 02749		CUB	ED	1	1	1	18	22S	31E	610556	3585146*	300	640		
C 02750		CUB	ED	1	1	1	18	22S	31E	610556	3585146*	300	741		
C 02751		CUB	ED	1	1	1	18	22S	31E	610556	3585146*	300	637		
C 02748		CUB	ED	1	2	3	17	22S	31E	612576	3584364*	2034	3856		
C 03002		CUB	ED	4	2	4	06	22S	31E	611933	3587375*	2338	668		
C 02683		CUB	ED	3	1	1	20	22S	31E	612184	3583356*	2422	840		
C 02413		CUB	ED	1	2	1	20	22S	31E	612586	3583560*	2527	737		
C 02682		CUB	ED	4	4	4	08	22S	31E	613566	3585379*	2778	4400		
C 02639		CUB	ED	4	4	4	17	22S	31E	613585	3583770*	3205	3928		
C 02414		CUB	ED	3	1	3	16	22S	31E	613782	3584176*	3210	846		
C 03112 EXPLORE		CUB	ED	3	1	1	09	22S	31E	613753	3586590*	3218	3567		
C 03221 EXPLORE		CUB	ED	1	2	1	30	22S	31E	610995	3581935*	3407	651		
C 02684		CUB	ED	4	2	2	20	22S	31E	613590	3583368*	3423	1060		
C 02950 EXPL		CUB	ED	4	2	4	23	22S	30E	608740	3582576*	3437	845		
C 02637		CUB	ED	1	3	3	24	22S	30E	608950	3582377*	3483	759		
C 03003		CUB	ED	3	1	3	31	21S	31E	610511	3588970*	3644	650		
C 03976 POD1		CUB	ED	1	3	4	20	22S	31E	612967	3582387	3666	180		
C 03976 POD2		CUB	ED	1	3	4	20	22S	31E	612967	3582387	3666	70		
C 03976 POD3		CUB	ED	1	3	4	20	22S	31E	612967	3582387	3666	182		
C 03976 POD4		CUB	ED	1	3	4	20	22S	31E	612968	3582386	3667	71		
C 02755		CUB	ED	4	4	2	20	22S	31E	613595	3582966*	3673	1040		
C 02759		CUB	ED	1	2	1	29	22S	31E	612604	3581952*	3840	795		
C 02754		CUB	ED	4	2	4	20	22S	31E	613599	3582564*	3947	1045		
C 02753		CUB	ED	1	4	4	20	22S	31E	613404	3582362*	3960	851		
C 02986		CUB	ED	1	4	4	20	22S	31E	613404	3582362*	3960	71		
C 02990		CUB	ED	1	4	4	20	22S	31E	613404	3582362*	3960	71		
C 02758		CUB	ED	3	2	1	29	22S	31E	612604	3581752*	4017	661		
C 02762		CUB	ED	3	2	1	29	22S	31E	612604	3581752*	4017	672		
C 02763		CUB	ED	3	2	1	29	22S	31E	612604	3581752*	4017	660		
C 02980		CUB	ED	2	4	4	20	22S	31E	613604	3582362*	4095	62		
C 02982		CUB	ED	2	4	4	20	22S	31E	613604	3582362*	4095	65		
C 02984		CUB	ED	2	4	4	20	22S	31E	613604	3582362*	4095	65		
C 02985		CUB	ED	2	4	4	20	22S	31E	613604	3582362*	4095	62		

C 02988	CUB	ED	2	4	4	20	22S	31E	613604	3582362*	4095	75		
C 02415	CUB	ED	3	3	4	16	22S	31E	614592	3583785*	4107	880	448	432
C 02989	CUB	ED	3	4	4	20	22S	31E	613404	3582162*	4113	54		

Average Depth to Water: **448 feet**

Minimum Depth: **448 feet**

Maximum Depth: **448 feet**

Record Count: 36

UTMNAD83 Radius Search (in meters):

Easting (X): 610788.31 **Northing (Y):** 3585336.12 **Radius:** 4200

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

3/23/21 8:28 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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: 880-1570-1
Laboratory Sample Delivery Group: Eddy County, New Mexico
Client Project/Site: LIama Federal #1

For:
EOG Resources, Inc.
5509 Champions Drive
Midland, Texas 79706

Attn: Galan Kelley

JKramer

Authorized for release by:
4/28/2021 1:14:59 PM

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

Client: EOG Resources, Inc.
Project/Site: LIama Federal #1

Laboratory Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Table of Contents

Definitions/Glossary

Client: EOG Resources, Inc. Job ID: 880-1570-1
Project/Site: Llama Federal #1 SDG: Eddy County, New Mexico

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: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Job ID: 880-1570-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1570-1

Receipt
The samples were received on 4/23/2021 4:10 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 2.9°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: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: H-E (0'-6")

Date Collected: 04/20/21 09:45
Date Received: 04/23/21 16:10

Lab Sample ID: 880-1570-1
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		04/23/21 16:53	04/24/21 23:10	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		04/23/21 16:53	04/24/21 23:10	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		04/23/21 16:53	04/24/21 23:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/23/21 16:53	04/24/21 23:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/24/21 23:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/21 16:53	04/24/21 23:10	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/23/21 16:53	04/24/21 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/23/21 16:53*	*04/24/21 23:10*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*04/23/21 16:53*	*04/24/21 23:10*	*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		04/23/21 17:08	04/26/21 09:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 09:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 09:34	1
Total TPH	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 09:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*04/23/21 17:08*	*04/26/21 09:34*	*1*
o-Terphenyl	*101*		*70 - 130*	*04/23/21 17:08*	*04/26/21 09:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.4**		4.99		mg/Kg			04/25/21 03:56	1

Client Sample ID: H-W (0'-6")

Date Collected: 04/20/21 10:00
Date Received: 04/23/21 16:10

Lab Sample ID: 880-1570-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/24/21 23:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/24/21 23:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/24/21 23:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/23/21 16:53	04/24/21 23:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/24/21 23:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/23/21 16:53	04/24/21 23:30	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/23/21 16:53	04/24/21 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/23/21 16:53*	*04/24/21 23:30*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/23/21 16:53*	*04/24/21 23:30*	*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		04/23/21 17:08	04/26/21 10:38	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: H-W (0'-6")

Lab Sample ID: 880-1570-2
Matrix: Solid
Date Collected: 04/20/21 10:00
Date Received: 04/23/21 16:10

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		04/23/21 17:08	04/26/21 10:38	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 10:38	1
Total TPH	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*04/23/21 17:08*	*04/26/21 10:38*	*1*
o-Terphenyl	*102*		*70 - 130*	*04/23/21 17:08*	*04/26/21 10:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**393**		5.00		mg/Kg			04/25/21 04:01	1

Client Sample ID: H-S (0'-6")

Lab Sample ID: 880-1570-3
Matrix: Solid
Date Collected: 04/20/21 10:15
Date Received: 04/23/21 16:10

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		04/23/21 16:53	04/24/21 23:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/23/21 16:53	04/24/21 23:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/23/21 16:53	04/24/21 23:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/23/21 16:53	04/24/21 23:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/23/21 16:53	04/24/21 23:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/23/21 16:53	04/24/21 23:50	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		04/23/21 16:53	04/24/21 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*04/23/21 16:53*	*04/24/21 23:50*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/23/21 16:53*	*04/24/21 23:50*	*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	<49.8	U	49.8		mg/Kg		04/23/21 17:08	04/26/21 10:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/23/21 17:08	04/26/21 10:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/23/21 17:08	04/26/21 10:59	1
Total TPH	<49.8	U	49.8		mg/Kg		04/23/21 17:08	04/26/21 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*04/23/21 17:08*	*04/26/21 10:59*	*1*
o-Terphenyl	*105*		*70 - 130*	*04/23/21 17:08*	*04/26/21 10:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6020**		50.0		mg/Kg			04/25/21 04:06	10

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: H-N (0'-6")

Date Collected: 04/20/21 10:30
Date Received: 04/23/21 16:10

Lab Sample ID: 880-1570-4
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		04/23/21 16:53	04/25/21 00:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/21 16:53	04/25/21 00:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/21 16:53	04/25/21 00:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/21 16:53	04/25/21 00:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/21 16:53	04/25/21 00:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/21 16:53	04/25/21 00:11	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/23/21 16:53	04/25/21 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/23/21 16:53*	*04/25/21 00:11*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/23/21 16:53*	*04/25/21 00:11*	*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	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 11:20	1
Diesel Range Organics (Over C10-C28)	**264**		49.9		mg/Kg		04/23/21 17:08	04/26/21 11:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 11:20	1
Total TPH	**264**		49.9		mg/Kg		04/23/21 17:08	04/26/21 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*04/23/21 17:08*	*04/26/21 11:20*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/23/21 17:08*	*04/26/21 11:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1330**		4.97		mg/Kg			04/25/21 04:12	1

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

Date Collected: 04/20/21 10:45
Date Received: 04/23/21 16:10

Lab Sample ID: 880-1570-5
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		04/23/21 16:53	04/25/21 00:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/21 16:53	04/25/21 00:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/21 16:53	04/25/21 00:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/21 16:53	04/25/21 00:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/21 16:53	04/25/21 00:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/21 16:53	04/25/21 00:31	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/23/21 16:53	04/25/21 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/23/21 16:53*	*04/25/21 00:31*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/23/21 16:53*	*04/25/21 00:31*	*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	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 11:42	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-1570-5
Matrix: Solid
Date Collected: 04/20/21 10:45
Date Received: 04/23/21 16:10

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)	**57.3**		50.0		mg/Kg		04/23/21 17:08	04/26/21 11:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 11:42	1
Total TPH	**57.3**		50.0		mg/Kg		04/23/21 17:08	04/26/21 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*04/23/21 17:08*	*04/26/21 11:42*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/23/21 17:08*	*04/26/21 11:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1650**		24.8		mg/Kg			04/25/21 04:17	5

Client Sample ID: AH-1 (6'-12")

Lab Sample ID: 880-1570-6
Matrix: Solid
Date Collected: 04/20/21 10:55
Date Received: 04/23/21 16:10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/25/21 00:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/25/21 00:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/25/21 00:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/23/21 16:53	04/25/21 00:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/25/21 00:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/23/21 16:53	04/25/21 00:52	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/23/21 16:53	04/25/21 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/23/21 16:53*	*04/25/21 00:52*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/23/21 16:53*	*04/25/21 00:52*	*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		04/23/21 17:08	04/26/21 12:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 12:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 12:03	1
Total TPH	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*04/23/21 17:08*	*04/26/21 12:03*	*1*
o-Terphenyl	*105*		*70 - 130*	*04/23/21 17:08*	*04/26/21 12:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1070**		5.03		mg/Kg			04/25/21 04:32	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: AH-2 (4.5-5")

Date Collected: 04/20/21 11:15
Date Received: 04/23/21 16:10

Lab Sample ID: 880-1570-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/25/21 01:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/25/21 01:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/25/21 01:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/23/21 16:53	04/25/21 01:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/23/21 16:53	04/25/21 01:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/23/21 16:53	04/25/21 01:12	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/23/21 16:53	04/25/21 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/23/21 16:53*	*04/25/21 01:12*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/23/21 16:53*	*04/25/21 01:12*	*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		04/23/21 17:08	04/26/21 12:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 12:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 12:24	1
Total TPH	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*04/23/21 17:08*	*04/26/21 12:24*	*1*
o-Terphenyl	*113*		*70 - 130*	*04/23/21 17:08*	*04/26/21 12:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.0**		5.02		mg/Kg			04/25/21 04:37	1

Client Sample ID: AH-3 (0'-6")

Date Collected: 04/20/21 11:25
Date Received: 04/23/21 16:10

Lab Sample ID: 880-1570-8
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		04/23/21 16:53	04/25/21 01:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 01:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 01:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/23/21 16:53	04/25/21 01:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 01:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/23/21 16:53	04/25/21 01:32	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		04/23/21 16:53	04/25/21 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/23/21 16:53*	*04/25/21 01:32*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*04/23/21 16:53*	*04/25/21 01:32*	*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		04/23/21 17:08	04/26/21 12:45	1

Client Sample Results

Client: EOG Resources, Inc. Job ID: 880-1570-1
Project/Site: Llama Federal #1 SDG: Eddy County, New Mexico

Client Sample ID: AH-3 (0'-6") Lab Sample ID: 880-1570-8

Date Collected: 04/20/21 11:25 **Matrix: Solid**
Date Received: 04/23/21 16:10

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		04/23/21 17:08	04/26/21 12:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 12:45	1
Total TPH	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*04/23/21 17:08*	*04/26/21 12:45*	*1*
o-Terphenyl	*109*		*70 - 130*	*04/23/21 17:08*	*04/26/21 12:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**947**		5.01		mg/Kg			04/25/21 04:52	1

Client Sample ID: AH-3 (6'-12') Lab Sample ID: 880-1570-9

Date Collected: 04/20/21 11:35 **Matrix: Solid**
Date Received: 04/23/21 16:10

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		04/23/21 16:53	04/25/21 01:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 01:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 01:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/23/21 16:53	04/25/21 01:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 01:53	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/23/21 16:53	04/25/21 01:53	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/23/21 16:53	04/25/21 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/23/21 16:53*	*04/25/21 01:53*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/23/21 16:53*	*04/25/21 01:53*	*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		04/23/21 17:08	04/26/21 13:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 13:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 13:06	1
Total TPH	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*04/23/21 17:08*	*04/26/21 13:06*	*1*
o-Terphenyl	*114*		*70 - 130*	*04/23/21 17:08*	*04/26/21 13:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1570**		24.9		mg/Kg			04/25/21 22:55	5

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: AH-4 (0'-6")

Date Collected: 04/20/21 11:45
Date Received: 04/23/21 16:10

Lab Sample ID: 880-1570-10
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		04/23/21 16:53	04/25/21 02:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/25/21 02:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/25/21 02:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/23/21 16:53	04/25/21 02:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/25/21 02:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/23/21 16:53	04/25/21 02:13	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/23/21 16:53	04/25/21 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/23/21 16:53*	*04/25/21 02:13*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/23/21 16:53*	*04/25/21 02:13*	*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		04/23/21 17:08	04/26/21 16:38	1
Diesel Range Organics (Over C10-C28)	**139**		50.0		mg/Kg		04/23/21 17:08	04/26/21 16:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 16:38	1
Total TPH	**139**		50.0		mg/Kg		04/23/21 17:08	04/26/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*04/23/21 17:08*	*04/26/21 16:38*	*1*
o-Terphenyl	*106*		*70 - 130*	*04/23/21 17:08*	*04/26/21 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**648**		4.99		mg/Kg			04/25/21 05:02	1

Client Sample ID: AH-5 (0'-6")

Date Collected: 04/20/21 11:55
Date Received: 04/23/21 16:10

Lab Sample ID: 880-1570-11
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		04/23/21 16:53	04/25/21 03:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/21 16:53	04/25/21 03:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/21 16:53	04/25/21 03:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/21 16:53	04/25/21 03:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/21 16:53	04/25/21 03:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/21 16:53	04/25/21 03:35	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/23/21 16:53	04/25/21 03:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/23/21 16:53*	*04/25/21 03:35*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/23/21 16:53*	*04/25/21 03:35*	*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	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 16:59	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: AH-5 (0'-6")

Lab Sample ID: 880-1570-11
Matrix: Solid
Date Collected: 04/20/21 11:55
Date Received: 04/23/21 16:10

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)	**1290**		49.9		mg/Kg		04/23/21 17:08	04/26/21 16:59	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/21 17:08	04/26/21 16:59	1
Total TPH	**1290**		49.9		mg/Kg		04/23/21 17:08	04/26/21 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*04/23/21 17:08*	*04/26/21 16:59*	*1*
o-Terphenyl	*104*		*70 - 130*	*04/23/21 17:08*	*04/26/21 16:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3570**		25.0		mg/Kg			04/25/21 05:07	5

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

Lab Sample ID: 880-1570-12
Matrix: Solid
Date Collected: 04/20/21 12:00
Date Received: 04/23/21 16:10

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		04/23/21 16:53	04/25/21 03:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 03:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 03:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/23/21 16:53	04/25/21 03:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 03:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/23/21 16:53	04/25/21 03:55	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/23/21 16:53	04/25/21 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/23/21 16:53*	*04/25/21 03:55*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/23/21 16:53*	*04/25/21 03:55*	*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		04/23/21 17:08	04/26/21 17:20	1
Diesel Range Organics (Over C10-C28)	**3140**		49.8		mg/Kg		04/23/21 17:08	04/26/21 17:20	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/23/21 17:08	04/26/21 17:20	1
Total TPH	**3140**		49.8		mg/Kg		04/23/21 17:08	04/26/21 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*04/23/21 17:08*	*04/26/21 17:20*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/23/21 17:08*	*04/26/21 17:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4550**		25.2		mg/Kg			04/25/21 05:13	5

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: AH-2.1 (0'-6")

Lab Sample ID: 880-1570-13
Matrix: Solid
Date Collected: 04/20/21 12:10
Date Received: 04/23/21 16:10

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		04/23/21 16:53	04/25/21 04:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/25/21 04:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/25/21 04:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/23/21 16:53	04/25/21 04:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/25/21 04:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/23/21 16:53	04/25/21 04:16	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/23/21 16:53	04/25/21 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*04/23/21 16:53*	*04/25/21 04:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/23/21 16:53*	*04/25/21 04:16*	*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		04/23/21 17:08	04/26/21 13:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 13:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 13:28	1
Total TPH	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/23/21 17:08*	*04/26/21 13:28*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/23/21 17:08*	*04/26/21 13:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.9**		5.04		mg/Kg			04/25/21 05:18	1

Client Sample ID: AH-2.1 (6"-12")

Lab Sample ID: 880-1570-14
Matrix: Solid
Date Collected: 04/20/21 12:15
Date Received: 04/23/21 16:10

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		04/23/21 16:53	04/25/21 04:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 04:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 04:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/23/21 16:53	04/25/21 04:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/23/21 16:53	04/25/21 04:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/23/21 16:53	04/25/21 04:36	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		04/23/21 16:53	04/25/21 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/23/21 16:53*	*04/25/21 04:36*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/23/21 16:53*	*04/25/21 04:36*	*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		04/23/21 17:08	04/26/21 14:10	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: AH-2.1 (6"-12")

Date Collected: 04/20/21 12:15
Date Received: 04/23/21 16:10

Lab Sample ID: 880-1570-14

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)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 14:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 14:10	1
Total TPH	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*04/23/21 17:08*	*04/26/21 14:10*	*1*
o-Terphenyl	*111*		*70 - 130*	*04/23/21 17:08*	*04/26/21 14:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.3**		4.98		mg/Kg			04/25/21 05:23	1

Surrogate Summary

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy 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)
880-1570-1	H-E (0'-6")	94	93
880-1570-1 MS	H-E (0'-6")	108	101
880-1570-2	H-W (0'-6")	97	91
880-1570-3	H-S (0'-6")	101	91
880-1570-4	H-N (0'-6")	96	92
880-1570-5	AH-1 (0'-6")	97	91
880-1570-6	AH-1 (6'-12")	100	91
880-1570-7	AH-2 (4.5-5")	104	98
880-1570-8	AH-3 (0'-6")	100	90
880-1570-9	AH-3 (6'-12')	94	92
880-1570-10	AH-4 (0'-6")	99	96
880-1570-11	AH-5 (0'-6")	109	106
880-1570-12	AH-6 (0'-6")	111	106
880-1570-13	AH-2.1 (0'-6")	116	94
880-1570-14	AH-2.1 (6"-12")	110	98
LCS 880-2257/1-A	Lab Control Sample	108	102
MB 880-2205/5-A	Method Blank	95	91
MB 880-2257/5-A	Method Blank	91	91

Surrogate Legend

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

Method: 8021B - Volatile Organic Compounds (GC)

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

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
880-1570-1 MSD	H-E (0'-6")		
LCSD 880-2257/2-A	Lab Control Sample Dup		

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)
880-1570-1	H-E (0'-6")	104	101
880-1570-1 MS	H-E (0'-6")	101	89
880-1570-1 MSD	H-E (0'-6")	100	87
880-1570-2	H-W (0'-6")	102	102
880-1570-3	H-S (0'-6")	108	105
880-1570-4	H-N (0'-6")	113	107
880-1570-5	AH-1 (0'-6")	105	103
880-1570-6	AH-1 (6'-12")	102	105
880-1570-7	AH-2 (4.5-5")	117	113

Surrogate Summary

Client: EOG Resources, Inc. Job ID: 880-1570-1
Project/Site: Llama Federal #1 SDG: Eddy County, New Mexico

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-1570-8	AH-3 (0'-6")	108	109										
880-1570-9	AH-3 (6'-12')	113	114										
880-1570-10	AH-4 (0'-6")	107	106										
880-1570-11	AH-5 (0'-6")	110	104										
880-1570-12	AH-6 (0'-6")	120	107										
880-1570-13	AH-2.1 (0'-6")	106	103										
880-1570-14	AH-2.1 (6"-12")	112	111										
LCS 880-2259/2-A	Lab Control Sample	103	97										
LCSD 880-2259/3-A	Lab Control Sample Dup	101	94										
MB 880-2259/1-A	Method Blank	101	103										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2205/5-A
Matrix: Solid
Analysis Batch: 2192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/21 11:17	04/24/21 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/21 11:17	04/24/21 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/21 11:17	04/24/21 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/23/21 11:17	04/24/21 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/21 11:17	04/24/21 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/21 11:17	04/24/21 11:56	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/23/21 11:17	04/24/21 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*04/23/21 11:17*	*04/24/21 11:56*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/23/21 11:17*	*04/24/21 11:56*	*1*

Lab Sample ID: MB 880-2257/5-A
Matrix: Solid
Analysis Batch: 2192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/24/21 22:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/24/21 22:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/24/21 22:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/23/21 16:53	04/24/21 22:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/21 16:53	04/24/21 22:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/21 16:53	04/24/21 22:48	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/23/21 16:53	04/24/21 22:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*04/23/21 16:53*	*04/24/21 22:48*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/23/21 16:53*	*04/24/21 22:48*	*1*

Lab Sample ID: LCS 880-2257/1-A
Matrix: Solid
Analysis Batch: 2192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09965		mg/Kg		100	70 - 130
Toluene	0.100	0.09322		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09597		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.2042		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-2257/2-A
Matrix: Solid
Analysis Batch: 2192

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2257

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09740		mg/Kg					
Toluene			0.100	0.09162		mg/Kg					
Ethylbenzene			0.100	0.09256		mg/Kg					
m-Xylene & p-Xylene			0.200	0.1966		mg/Kg					
o-Xylene			0.100	0.09975		mg/Kg					

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

Lab Sample ID: 880-1570-1 MS
Matrix: Solid
Analysis Batch: 2192

Client Sample ID: H-E (0'-6")
Prep Type: Total/NA
Prep Batch: 2257

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.100	0.07531		mg/Kg		75	70 - 130		
Toluene	<0.00200	U F1	0.100	0.06766	F1	mg/Kg		67	70 - 130		
Ethylbenzene	<0.00200	U F1	0.100	0.06562	F1	mg/Kg		65	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1406		mg/Kg		70	70 - 130		
o-Xylene	<0.00200	U	0.100	0.07309		mg/Kg		73	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-1570-1 MSD
Matrix: Solid
Analysis Batch: 2192

Client Sample ID: H-E (0'-6")
Prep Type: Total/NA
Prep Batch: 2257

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07318		mg/Kg					
Toluene	<0.00200	U F1	0.100	0.06570		mg/Kg					
Ethylbenzene	<0.00200	U F1	0.100	0.06093		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1300		mg/Kg					
o-Xylene	<0.00200	U	0.100	0.06872		mg/Kg					

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

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-2259/1-A
Matrix: Solid
Analysis Batch: 2304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2259

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		04/23/21 17:08	04/26/21 08:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 08:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 08:31	1
Total TPH	<50.0	U	50.0		mg/Kg		04/23/21 17:08	04/26/21 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/23/21 17:08*	*04/26/21 08:31*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/23/21 17:08*	*04/26/21 08:31*	*1*

Lab Sample ID: LCS 880-2259/2-A
Matrix: Solid
Analysis Batch: 2304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2259

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1082		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	993.3		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-2259/3-A
Matrix: Solid
Analysis Batch: 2304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2259

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1078		mg/Kg		108	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	988.0		mg/Kg		99	70 - 130	1	20

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

Lab Sample ID: 880-1570-1 MS
Matrix: Solid
Analysis Batch: 2304

Client Sample ID: H-E (0'-6")
Prep Type: Total/NA
Prep Batch: 2259

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	998	1127		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	979.1		mg/Kg		93	70 - 130		

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-1570-1 MS
Matrix: Solid
Analysis Batch: 2304

Client Sample ID: H-E (0'-6")
Prep Type: Total/NA
Prep Batch: 2259

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

Lab Sample ID: 880-1570-1 MSD
Matrix: Solid
Analysis Batch: 2304

Client Sample ID: H-E (0'-6")
Prep Type: Total/NA
Prep Batch: 2259

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	998	1106		mg/Kg		111	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	970.6		mg/Kg		92	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	87		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2272/1-A
Matrix: Solid
Analysis Batch: 2295

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			04/25/21 02:50	1

Lab Sample ID: LCS 880-2272/2-A
Matrix: Solid
Analysis Batch: 2295

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	266.8		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-2272/3-A
Matrix: Solid
Analysis Batch: 2295

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	265.7		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-1570-5 MS
Matrix: Solid
Analysis Batch: 2295

Client Sample ID: AH-1 (0'-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1650		1250	3012		mg/Kg		109	90 - 110

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-1570-5 MSD
Matrix: Solid
Analysis Batch: 2295

Client Sample ID: AH-1 (0'-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1650		1250	3016		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 2192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1570-1	H-E (0'-6")	Total/NA	Solid	8021B	2257
880-1570-2	H-W (0'-6")	Total/NA	Solid	8021B	2257
880-1570-3	H-S (0'-6")	Total/NA	Solid	8021B	2257
880-1570-4	H-N (0'-6")	Total/NA	Solid	8021B	2257
880-1570-5	AH-1 (0'-6")	Total/NA	Solid	8021B	2257
880-1570-6	AH-1 (6'-12")	Total/NA	Solid	8021B	2257
880-1570-7	AH-2 (4.5-5")	Total/NA	Solid	8021B	2257
880-1570-8	AH-3 (0'-6")	Total/NA	Solid	8021B	2257
880-1570-9	AH-3 (6'-12')	Total/NA	Solid	8021B	2257
880-1570-10	AH-4 (0'-6")	Total/NA	Solid	8021B	2257
880-1570-11	AH-5 (0'-6")	Total/NA	Solid	8021B	2257
880-1570-12	AH-6 (0'-6")	Total/NA	Solid	8021B	2257
880-1570-13	AH-2.1 (0'-6")	Total/NA	Solid	8021B	2257
880-1570-14	AH-2.1 (6"-12")	Total/NA	Solid	8021B	2257
MB 880-2205/5-A	Method Blank	Total/NA	Solid	8021B	2205
MB 880-2257/5-A	Method Blank	Total/NA	Solid	8021B	2257
LCS 880-2257/1-A	Lab Control Sample	Total/NA	Solid	8021B	2257
LCSD 880-2257/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2257
880-1570-1 MS	H-E (0'-6")	Total/NA	Solid	8021B	2257
880-1570-1 MSD	H-E (0'-6")	Total/NA	Solid	8021B	2257

Prep Batch: 2205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2205/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 2257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1570-1	H-E (0'-6")	Total/NA	Solid	5035	
880-1570-2	H-W (0'-6")	Total/NA	Solid	5035	
880-1570-3	H-S (0'-6")	Total/NA	Solid	5035	
880-1570-4	H-N (0'-6")	Total/NA	Solid	5035	
880-1570-5	AH-1 (0'-6")	Total/NA	Solid	5035	
880-1570-6	AH-1 (6'-12")	Total/NA	Solid	5035	
880-1570-7	AH-2 (4.5-5")	Total/NA	Solid	5035	
880-1570-8	AH-3 (0'-6")	Total/NA	Solid	5035	
880-1570-9	AH-3 (6'-12')	Total/NA	Solid	5035	
880-1570-10	AH-4 (0'-6")	Total/NA	Solid	5035	
880-1570-11	AH-5 (0'-6")	Total/NA	Solid	5035	
880-1570-12	AH-6 (0'-6")	Total/NA	Solid	5035	
880-1570-13	AH-2.1 (0'-6")	Total/NA	Solid	5035	
880-1570-14	AH-2.1 (6"-12")	Total/NA	Solid	5035	
MB 880-2257/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2257/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2257/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-1570-1 MS	H-E (0'-6")	Total/NA	Solid	5035	
880-1570-1 MSD	H-E (0'-6")	Total/NA	Solid	5035	

QC Association Summary

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

GC Semi VOA

Prep Batch: 2259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1570-1	H-E (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-2	H-W (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-3	H-S (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-4	H-N (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-5	AH-1 (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-6	AH-1 (6'-12")	Total/NA	Solid	8015NM Prep	
880-1570-7	AH-2 (4.5-5")	Total/NA	Solid	8015NM Prep	
880-1570-8	AH-3 (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-9	AH-3 (6'-12')	Total/NA	Solid	8015NM Prep	
880-1570-10	AH-4 (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-11	AH-5 (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-12	AH-6 (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-13	AH-2.1 (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-14	AH-2.1 (6"-12")	Total/NA	Solid	8015NM Prep	
MB 880-2259/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2259/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2259/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-1570-1 MS	H-E (0'-6")	Total/NA	Solid	8015NM Prep	
880-1570-1 MSD	H-E (0'-6")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1570-1	H-E (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-2	H-W (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-3	H-S (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-4	H-N (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-5	AH-1 (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-6	AH-1 (6'-12")	Total/NA	Solid	8015B NM	2259
880-1570-7	AH-2 (4.5-5")	Total/NA	Solid	8015B NM	2259
880-1570-8	AH-3 (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-9	AH-3 (6'-12')	Total/NA	Solid	8015B NM	2259
880-1570-10	AH-4 (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-11	AH-5 (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-12	AH-6 (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-13	AH-2.1 (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-14	AH-2.1 (6"-12")	Total/NA	Solid	8015B NM	2259
MB 880-2259/1-A	Method Blank	Total/NA	Solid	8015B NM	2259
LCS 880-2259/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2259
LCSD 880-2259/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2259
880-1570-1 MS	H-E (0'-6")	Total/NA	Solid	8015B NM	2259
880-1570-1 MSD	H-E (0'-6")	Total/NA	Solid	8015B NM	2259

HPLC/IC

Leach Batch: 2272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1570-1	H-E (0'-6")	Soluble	Solid	DI Leach	
880-1570-2	H-W (0'-6")	Soluble	Solid	DI Leach	
880-1570-3	H-S (0'-6")	Soluble	Solid	DI Leach	
880-1570-4	H-N (0'-6")	Soluble	Solid	DI Leach	
880-1570-5	AH-1 (0'-6")	Soluble	Solid	DI Leach	

QC Association Summary

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 2272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1570-6	AH-1 (6'-12")	Soluble	Solid	DI Leach	
880-1570-7	AH-2 (4.5-5")	Soluble	Solid	DI Leach	
880-1570-8	AH-3 (0'-6")	Soluble	Solid	DI Leach	
880-1570-9	AH-3 (6'-12')	Soluble	Solid	DI Leach	
880-1570-10	AH-4 (0'-6")	Soluble	Solid	DI Leach	
880-1570-11	AH-5 (0'-6")	Soluble	Solid	DI Leach	
880-1570-12	AH-6 (0'-6")	Soluble	Solid	DI Leach	
880-1570-13	AH-2.1 (0'-6")	Soluble	Solid	DI Leach	
880-1570-14	AH-2.1 (6"-12")	Soluble	Solid	DI Leach	
MB 880-2272/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2272/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2272/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1570-5 MS	AH-1 (0'-6")	Soluble	Solid	DI Leach	
880-1570-5 MSD	AH-1 (0'-6")	Soluble	Solid	DI Leach	

Analysis Batch: 2295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1570-1	H-E (0'-6")	Soluble	Solid	300.0	2272
880-1570-2	H-W (0'-6")	Soluble	Solid	300.0	2272
880-1570-3	H-S (0'-6")	Soluble	Solid	300.0	2272
880-1570-4	H-N (0'-6")	Soluble	Solid	300.0	2272
880-1570-5	AH-1 (0'-6")	Soluble	Solid	300.0	2272
880-1570-6	AH-1 (6'-12")	Soluble	Solid	300.0	2272
880-1570-7	AH-2 (4.5-5")	Soluble	Solid	300.0	2272
880-1570-8	AH-3 (0'-6")	Soluble	Solid	300.0	2272
880-1570-9	AH-3 (6'-12')	Soluble	Solid	300.0	2272
880-1570-10	AH-4 (0'-6")	Soluble	Solid	300.0	2272
880-1570-11	AH-5 (0'-6")	Soluble	Solid	300.0	2272
880-1570-12	AH-6 (0'-6")	Soluble	Solid	300.0	2272
880-1570-13	AH-2.1 (0'-6")	Soluble	Solid	300.0	2272
880-1570-14	AH-2.1 (6"-12")	Soluble	Solid	300.0	2272
MB 880-2272/1-A	Method Blank	Soluble	Solid	300.0	2272
LCS 880-2272/2-A	Lab Control Sample	Soluble	Solid	300.0	2272
LCSD 880-2272/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2272
880-1570-5 MS	AH-1 (0'-6")	Soluble	Solid	300.0	2272
880-1570-5 MSD	AH-1 (0'-6")	Soluble	Solid	300.0	2272

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: H-E (0'-6")

Lab Sample ID: 880-1570-1
Matrix: Solid
Date Collected: 04/20/21 09:45
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/24/21 23:10	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 09:34	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		1	2295	04/25/21 03:56	WP	XM

Client Sample ID: H-W (0'-6")

Lab Sample ID: 880-1570-2
Matrix: Solid
Date Collected: 04/20/21 10:00
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/24/21 23:30	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 10:38	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		1	2295	04/25/21 04:01	WP	XM

Client Sample ID: H-S (0'-6")

Lab Sample ID: 880-1570-3
Matrix: Solid
Date Collected: 04/20/21 10:15
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/24/21 23:50	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 10:59	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		10	2295	04/25/21 04:06	WP	XM

Client Sample ID: H-N (0'-6")

Lab Sample ID: 880-1570-4
Matrix: Solid
Date Collected: 04/20/21 10:30
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 00:11	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 11:20	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		1	2295	04/25/21 04:12	WP	XM

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-1570-5
Matrix: Solid
Date Collected: 04/20/21 10:45
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 00:31	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 11:42	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		5	2295	04/25/21 04:17	WP	XM

Client Sample ID: AH-1 (6'-12")

Lab Sample ID: 880-1570-6
Matrix: Solid
Date Collected: 04/20/21 10:55
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 00:52	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 12:03	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		1	2295	04/25/21 04:32	WP	XM

Client Sample ID: AH-2 (4.5-5")

Lab Sample ID: 880-1570-7
Matrix: Solid
Date Collected: 04/20/21 11:15
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 01:12	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 12:24	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		1	2295	04/25/21 04:37	WP	XM

Client Sample ID: AH-3 (0'-6")

Lab Sample ID: 880-1570-8
Matrix: Solid
Date Collected: 04/20/21 11:25
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 01:32	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 12:45	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		1	2295	04/25/21 04:52	WP	XM

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: AH-3 (6'-12')

Lab Sample ID: 880-1570-9
Matrix: Solid
Date Collected: 04/20/21 11:35
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 01:53	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 13:06	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		5	2295	04/25/21 22:55	WP	XM

Client Sample ID: AH-4 (0'-6")

Lab Sample ID: 880-1570-10
Matrix: Solid
Date Collected: 04/20/21 11:45
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 02:13	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 16:38	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		1	2295	04/25/21 05:02	WP	XM

Client Sample ID: AH-5 (0'-6")

Lab Sample ID: 880-1570-11
Matrix: Solid
Date Collected: 04/20/21 11:55
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 03:35	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 16:59	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		5	2295	04/25/21 05:07	WP	XM

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

Lab Sample ID: 880-1570-12
Matrix: Solid
Date Collected: 04/20/21 12:00
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 03:55	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 17:20	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		5	2295	04/25/21 05:13	WP	XM

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Client Sample ID: AH-2.1 (0'-6")

Lab Sample ID: 880-1570-13
Matrix: Solid
Date Collected: 04/20/21 12:10
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 04:16	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 13:28	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		1	2295	04/25/21 05:18	WP	XM

Client Sample ID: AH-2.1 (6"-12")

Lab Sample ID: 880-1570-14
Matrix: Solid
Date Collected: 04/20/21 12:15
Date Received: 04/23/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2257	04/23/21 16:53	KL	XM
Total/NA	Analysis	8021B		1	2192	04/25/21 04:36	KL	XM
Total/NA	Prep	8015NM Prep			2259	04/23/21 17:08	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 14:10	AJ	XM
Soluble	Leach	DI Leach			2272	04/24/21 11:19	AJ	XM
Soluble	Analysis	300.0		1	2295	04/25/21 05:23	WP	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: EOG Resources, Inc. Job ID: 880-1570-1
Project/Site: Llama Federal #1 SDG: Eddy 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: EOG Resources, Inc. Job ID: 880-1570-1
Project/Site: Llama Federal #1 SDG: Eddy 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: EOG Resources, Inc.
Project/Site: Llama Federal #1

Job ID: 880-1570-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1570-1	H-E (0'-6")	Solid	04/20/21 09:45	04/23/21 16:10	
880-1570-2	H-W (0'-6")	Solid	04/20/21 10:00	04/23/21 16:10	
880-1570-3	H-S (0'-6")	Solid	04/20/21 10:15	04/23/21 16:10	
880-1570-4	H-N (0'-6")	Solid	04/20/21 10:30	04/23/21 16:10	
880-1570-5	AH-1 (0'-6")	Solid	04/20/21 10:45	04/23/21 16:10	
880-1570-6	AH-1 (6'-12")	Solid	04/20/21 10:55	04/23/21 16:10	
880-1570-7	AH-2 (4.5-5")	Solid	04/20/21 11:15	04/23/21 16:10	
880-1570-8	AH-3 (0'-6")	Solid	04/20/21 11:25	04/23/21 16:10	
880-1570-9	AH-3 (6'-12')	Solid	04/20/21 11:35	04/23/21 16:10	
880-1570-10	AH-4 (0'-6")	Solid	04/20/21 11:45	04/23/21 16:10	
880-1570-11	AH-5 (0'-6")	Solid	04/20/21 11:55	04/23/21 16:10	
880-1570-12	AH-6 (0'-6")	Solid	04/20/21 12:00	04/23/21 16:10	
880-1570-13	AH-2.1 (0'-6")	Solid	04/20/21 12:10	04/23/21 16:10	
880-1570-14	AH-2.1 (6"-12")	Solid	04/20/21 12:15	04/23/21 16:10	

Analysis Request of Chain of Custody Record

Tetra Tech.

880-1570 Chain of Custody

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

880-1570

Client Name:	EOG	**Site Manager:**	Paula TocoraAlonso
Project Name:	Llama Federal #1	**Contact Info:**	Email paula tocoraalonso@tetratech com
Project Location: (county, state)	Eddy County, New Mexico	**Project #:**	212C-MD-02419, Task 2601
Invoice to:	EOG James Kennedy		
Receiving Laboratory:	Xenco	**Sampler Signature:**	Colton Bickerstaff
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR 2021 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO DRO - ORO MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB s 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	H-E (0'-6")	04/20/21	9 45		X				X		1	N	X		X													X					
	H-W (0'-6")	04/20/21	10 00		X				X		1	N	X		X													X					
	H-S (0'-6")	04/20/21	10 15		X				X		1	N	X		X													X					
	H-N (0'-6")	04/20/21	10 30		X				X		1	N	X		X													X					
	AH-1 (0'-6")	04/20/21	10 45		X				X		1	N	X		X													X					
	AH-1 (6"-12")	04/20/21	10 55		X				X		1	N	X		X													X					
	AH-2 (4 5'-5')	04/20/21	11 15		X				X		1	N	X		X													X					
	AH-3 (0'-6")	04/20/21	11 25		X				X		1	N	X		X													X					
	AH-3 (6"-12")	04/20/21	11 35		X				X		1	N	X		X													X					
	AH-4 (0'-6")	04/20/21	11 45		X				X		1	N	X		X													X					

Relinquished by	Date	Time	Received by
	23 Apr 21	4:10pm	Date 4.23.21 Time 1610
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by

LAB USE ONLY

Sample Temperature
20.4/20.9
+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 # _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name:	EOG	**Site Manager:**	Paula TocoraAlonso
Project Name:	Llama Federal #1	**Contact Info:**	Email paula tocoraalonso@tetratech com
Project Location: (county, state)	Eddy County, New Mexico	**Project #:**	212C-MD-02419, Task 2601
Invoice to:	EOG James Kennedy		
Receiving Laboratory:	Xenco	**Sampler Signature:**	Colton Bickerstaff
Comments:	0		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR 2021 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO DRO ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCB s 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	AH-5 (0'-6")	04/20/21	11 55		X				X		1	N	X		X												X					
	AH-6 (0'-6")	04/20/21	12 00		X				X		1	N	X		X												X					
	AH-2 1 (0'-6")	04/20/21	12 10		X				X		1	N	X		X												X					
	AH-2 1 (6"-12")	04/20/21	12 15		X				X		1	N	X		X												X					

Relinquished by	Date	Time	Received by	Date	Time	LAB USE ONLY
	23Apr21	4:10pm		4-23-21	1610	Sample Temperature 22.4 / 20.9 +0.5
Relinquished by	Date	Time	Received by	Date	Time	
	23Apr21					
Relinquished by	Date	Time	Received by	Date	Time	

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 # _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: EOG Resources, Inc.

Job Number: 880-1570-1
SDG Number: Eddy County, New Mexico

Login Number: 1570
List Number: 1
Creator: Teel, Brianna

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-4048-1
Client Project/Site: Llama Federal, NM

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

Attn: Clair Gonzales

JKRAMER

Authorized for release by:
7/19/2021 12:22:51 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: Llama Federal, NM

Laboratory Job ID: 880-4048-1

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-4048-1
Project/Site: Llama Federal, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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
S1+	Surrogate recovery exceeds control limits, high biased.
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: Llama Federal, NM

Job ID: 880-4048-1

Job ID: 880-4048-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-4048-1

Receipt
The samples were received on 7/15/2021 4:06 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
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: Llama Federal, NM

Job ID: 880-4048-1

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

Lab Sample ID: 880-4048-1
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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		07/16/21 11:59	07/17/21 00:28	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:28	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:28	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		07/16/21 11:59	07/17/21 00:28	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:28	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		07/16/21 11:59	07/17/21 00:28	1
Total BTEX	<0.00401	U F1	0.00401		mg/Kg		07/16/21 11:59	07/17/21 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/16/21 11:59*	*07/17/21 00:28*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*07/16/21 11:59*	*07/17/21 00:28*	*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	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 18:05	5
Diesel Range Organics (Over C10-C28)	**1190**		250		mg/Kg		07/16/21 09:00	07/18/21 18:05	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 18:05	5
Total TPH	**1190**		250		mg/Kg		07/16/21 09:00	07/18/21 18:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/16/21 09:00*	*07/18/21 18:05*	*5*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*07/16/21 09:00*	*07/18/21 18:05*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3660**		25.1		mg/Kg			07/17/21 22:38	5

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

Lab Sample ID: 880-4048-2
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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		07/16/21 11:59	07/17/21 00:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/16/21 11:59	07/17/21 00:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/16/21 11:59	07/17/21 00:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/16/21 11:59	07/17/21 00:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/16/21 11:59	07/17/21 00:49	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/16/21 11:59	07/17/21 00:49	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/16/21 11:59	07/17/21 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/16/21 11:59*	*07/17/21 00:49*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/16/21 11:59*	*07/17/21 00:49*	*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		07/16/21 09:00	07/18/21 18:26	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

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

Lab Sample ID: 880-4048-2
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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)	**337**		49.9		mg/Kg		07/16/21 09:00	07/18/21 18:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/16/21 09:00	07/18/21 18:26	1
Total TPH	**337**		49.9		mg/Kg		07/16/21 09:00	07/18/21 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/16/21 09:00*	*07/18/21 18:26*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*07/16/21 09:00*	*07/18/21 18:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1250**		4.95		mg/Kg			07/17/21 22:54	1

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

Lab Sample ID: 880-4048-3
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00244**		0.00201		mg/Kg		07/16/21 11:59	07/17/21 01:09	1
Toluene	**0.118**		0.00201		mg/Kg		07/16/21 11:59	07/17/21 01:09	1
Ethylbenzene	**0.0346**		0.00201		mg/Kg		07/16/21 11:59	07/17/21 01:09	1
m-Xylene & p-Xylene	**0.0665**		0.00402		mg/Kg		07/16/21 11:59	07/17/21 01:09	1
o-Xylene	**0.0996**		0.00201		mg/Kg		07/16/21 11:59	07/17/21 01:09	1
Xylenes, Total	**0.166**		0.00402		mg/Kg		07/16/21 11:59	07/17/21 01:09	1
Total BTEX	**0.321**		0.00402		mg/Kg		07/16/21 11:59	07/17/21 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*171*	*S1+*	*70 - 130*	*07/16/21 11:59*	*07/17/21 01:09*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/16/21 11:59*	*07/17/21 01:09*	*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	<249	U	249		mg/Kg		07/16/21 09:00	07/18/21 18:47	5
Diesel Range Organics (Over C10-C28)	**3260**		249		mg/Kg		07/16/21 09:00	07/18/21 18:47	5
OII Range Organics (Over C28-C36)	<249	U	249		mg/Kg		07/16/21 09:00	07/18/21 18:47	5
Total TPH	**3260**		249		mg/Kg		07/16/21 09:00	07/18/21 18:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/16/21 09:00*	*07/18/21 18:47*	*5*
o-Terphenyl	*114*		*70 - 130*	*07/16/21 09:00*	*07/18/21 18:47*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1920**		24.9		mg/Kg			07/17/21 22:59	5

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

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

Lab Sample ID: 880-4048-4
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/16/21 11:59	07/17/21 01:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/16/21 11:59	07/17/21 01:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/16/21 11:59	07/17/21 01:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/16/21 11:59	07/17/21 01:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/16/21 11:59	07/17/21 01:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/16/21 11:59	07/17/21 01:29	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/16/21 11:59	07/17/21 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/16/21 11:59*	*07/17/21 01:29*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/16/21 11:59*	*07/17/21 01:29*	*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	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 19:08	5
Diesel Range Organics (Over C10-C28)	**643**		250		mg/Kg		07/16/21 09:00	07/18/21 19:08	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 19:08	5
Total TPH	**643**		250		mg/Kg		07/16/21 09:00	07/18/21 19:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/16/21 09:00*	*07/18/21 19:08*	*5*
o-Terphenyl	*128*		*70 - 130*	*07/16/21 09:00*	*07/18/21 19:08*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**887**		4.99		mg/Kg			07/17/21 23:05	1

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

Lab Sample ID: 880-4048-5
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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		07/16/21 11:59	07/17/21 01:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 01:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 01:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/16/21 11:59	07/17/21 01:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 01:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/16/21 11:59	07/17/21 01:50	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/16/21 11:59	07/17/21 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/16/21 11:59*	*07/17/21 01:50*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*07/16/21 11:59*	*07/17/21 01:50*	*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	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 19:29	5

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

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

Lab Sample ID: 880-4048-5
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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)	**2430**		250		mg/Kg		07/16/21 09:00	07/18/21 19:29	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 19:29	5
Total TPH	**2430**		250		mg/Kg		07/16/21 09:00	07/18/21 19:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/16/21 09:00*	*07/18/21 19:29*	*5*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*07/16/21 09:00*	*07/18/21 19:29*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2330**		25.0		mg/Kg			07/17/21 23:10	5

Client Sample ID: AH-7 (0-1')

Lab Sample ID: 880-4048-6
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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		07/16/21 11:59	07/17/21 02:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/16/21 11:59	07/17/21 02:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/16/21 11:59	07/17/21 02:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/16/21 11:59	07/17/21 02:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/16/21 11:59	07/17/21 02:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/16/21 11:59	07/17/21 02:10	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/16/21 11:59	07/17/21 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/16/21 11:59*	*07/17/21 02:10*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/16/21 11:59*	*07/17/21 02:10*	*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	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 19:50	5
Diesel Range Organics (Over C10-C28)	**1500**		250		mg/Kg		07/16/21 09:00	07/18/21 19:50	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 19:50	5
Total TPH	**1500**		250		mg/Kg		07/16/21 09:00	07/18/21 19:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/16/21 09:00*	*07/18/21 19:50*	*5*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*07/16/21 09:00*	*07/18/21 19:50*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**823**		5.00		mg/Kg			07/17/21 23:15	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

Client Sample ID: H-N

Lab Sample ID: 880-4048-7
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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		07/16/21 11:59	07/17/21 02:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/16/21 11:59	07/17/21 02:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/16/21 11:59	07/17/21 02:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/16/21 11:59	07/17/21 02:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/16/21 11:59	07/17/21 02:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/16/21 11:59	07/17/21 02:31	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/16/21 11:59	07/17/21 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*215*	*S1+*	*70 - 130*	*07/16/21 11:59*	*07/17/21 02:31*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*07/16/21 11:59*	*07/17/21 02:31*	*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	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 20:11	5
Diesel Range Organics (Over C10-C28)	**506**		250		mg/Kg		07/16/21 09:00	07/18/21 20:11	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		07/16/21 09:00	07/18/21 20:11	5
Total TPH	**506**		250		mg/Kg		07/16/21 09:00	07/18/21 20:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/16/21 09:00*	*07/18/21 20:11*	*5*
o-Terphenyl	*130*		*70 - 130*	*07/16/21 09:00*	*07/18/21 20:11*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**385**		4.95		mg/Kg			07/17/21 23:21	1

Client Sample ID: H-S

Lab Sample ID: 880-4048-8
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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		07/16/21 11:59	07/17/21 02:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/16/21 11:59	07/17/21 02:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/16/21 11:59	07/17/21 02:51	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/16/21 11:59	07/17/21 02:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/16/21 11:59	07/17/21 02:51	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/16/21 11:59	07/17/21 02:51	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/16/21 11:59	07/17/21 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/16/21 11:59*	*07/17/21 02:51*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/16/21 11:59*	*07/17/21 02:51*	*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		07/16/21 09:00	07/18/21 20:53	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

Client Sample ID: H-S
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

Lab Sample ID: 880-4048-8
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)	<49.9	U	49.9		mg/Kg		07/16/21 09:00	07/18/21 20:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/16/21 09:00	07/18/21 20:53	1
Total TPH	<49.9	U	49.9		mg/Kg		07/16/21 09:00	07/18/21 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/16/21 09:00*	*07/18/21 20:53*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/16/21 09:00*	*07/18/21 20:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.2**		5.05		mg/Kg			07/17/21 23:26	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

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)
880-4048-1	AH-1 (0-1')	95	114
880-4048-1 MS	AH-1 (0-1')	90	114
880-4048-1 MSD	AH-1 (0-1')	99	103
880-4048-2	AH-3 (0-1')	124	94
880-4048-3	AH-4 (0-1')	171 S1+	96
880-4048-4	AH-5 (0-1')	101	110
880-4048-5	AH-6 (0-1')	103	111
880-4048-6	AH-7 (0-1')	102	109
880-4048-7	H-N	215 S1+	112
880-4048-8	H-S	110	103
LCS 880-5278/1-A	Lab Control Sample	107	104
LCSD 880-5278/2-A	Lab Control Sample Dup	103	104
MB 880-5264/5-A	Method Blank	99	99
MB 880-5278/5-A	Method Blank	89	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)
880-4048-1	AH-1 (0-1')	104	134 S1+
880-4048-2	AH-3 (0-1')	96	144 S1+
880-4048-3	AH-4 (0-1')	103	114
880-4048-4	AH-5 (0-1')	86	128
880-4048-5	AH-6 (0-1')	90	135 S1+
880-4048-6	AH-7 (0-1')	93	138 S1+
880-4048-7	H-N	97	130
880-4048-8	H-S	104	110
LCS 880-5268/2-A	Lab Control Sample	92	89
LCSD 880-5268/3-A	Lab Control Sample Dup	104	97
MB 880-5268/1-A	Method Blank	92	96

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5264/5-A
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/16/21 08:35	07/16/21 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/16/21 08:35*	*07/16/21 13:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/16/21 08:35*	*07/16/21 13:17*	*1*

Lab Sample ID: MB 880-5278/5-A
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/16/21 11:59	07/17/21 00:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/16/21 11:59*	*07/17/21 00:07*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/16/21 11:59*	*07/17/21 00:07*	*1*

Lab Sample ID: LCS 880-5278/1-A
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09218		mg/Kg		92	70 - 130
Toluene	0.100	0.08426		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08191		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1626		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08437		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

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

Lab Sample ID: LCSD 880-5278/2-A
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5278

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09313		mg/Kg		93	70 - 130	1	35
Toluene			0.100	0.08476		mg/Kg		85	70 - 130	1	35
Ethylbenzene			0.100	0.08152		mg/Kg		82	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1642		mg/Kg		82	70 - 130	1	35
o-Xylene			0.100	0.08370		mg/Kg		84	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-4048-1 MS
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: AH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 5278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0996	0.08670		mg/Kg		87	70 - 130
Toluene	<0.00200	U F1	0.0996	0.05959	F1	mg/Kg		60	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.04698	F1	mg/Kg		46	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.08974	F1	mg/Kg		44	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.03982	F1	mg/Kg		39	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-4048-1 MSD
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: AH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 5278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0992	0.07982		mg/Kg		80	70 - 130	8	35
Toluene	<0.00200	U F1	0.0992	0.05673	F1	mg/Kg		57	70 - 130	5	35
Ethylbenzene	<0.00200	U F1	0.0992	0.04462	F1	mg/Kg		44	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U F1	0.198	0.08792	F1	mg/Kg		43	70 - 130	2	35
o-Xylene	<0.00200	U F1	0.0992	0.04053	F1	mg/Kg		40	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

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

Lab Sample ID: MB 880-5268/1-A
Matrix: Solid
Analysis Batch: 5327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5268

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		07/16/21 09:00	07/18/21 12:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/16/21 09:00	07/18/21 12:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/16/21 09:00	07/18/21 12:08	1
Total TPH	<50.0	U	50.0		mg/Kg		07/16/21 09:00	07/18/21 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/16/21 09:00*	*07/18/21 12:08*	*1*
o-Terphenyl	*96*		*70 - 130*	*07/16/21 09:00*	*07/18/21 12:08*	*1*

Lab Sample ID: LCS 880-5268/2-A
Matrix: Solid
Analysis Batch: 5327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5268

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	774.4		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	837.3		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: LCSD 880-5268/3-A
Matrix: Solid
Analysis Batch: 5327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5268

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	855.6		mg/Kg		86	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	942.6		mg/Kg		94	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5285/1-A
Matrix: Solid
Analysis Batch: 5333

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			07/17/21 20:44	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-5285/2-A
Matrix: Solid
Analysis Batch: 5333

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	250.4		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-5285/3-A
Matrix: Solid
Analysis Batch: 5333

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	250.6		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

GC VOA

Prep Batch: 5264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5264/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 5266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4048-1	AH-1 (0-1')	Total/NA	Solid	8021B	5278
880-4048-2	AH-3 (0-1')	Total/NA	Solid	8021B	5278
880-4048-3	AH-4 (0-1')	Total/NA	Solid	8021B	5278
880-4048-4	AH-5 (0-1')	Total/NA	Solid	8021B	5278
880-4048-5	AH-6 (0-1')	Total/NA	Solid	8021B	5278
880-4048-6	AH-7 (0-1')	Total/NA	Solid	8021B	5278
880-4048-7	H-N	Total/NA	Solid	8021B	5278
880-4048-8	H-S	Total/NA	Solid	8021B	5278
MB 880-5264/5-A	Method Blank	Total/NA	Solid	8021B	5264
MB 880-5278/5-A	Method Blank	Total/NA	Solid	8021B	5278
LCS 880-5278/1-A	Lab Control Sample	Total/NA	Solid	8021B	5278
LCSD 880-5278/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5278
880-4048-1 MS	AH-1 (0-1')	Total/NA	Solid	8021B	5278
880-4048-1 MSD	AH-1 (0-1')	Total/NA	Solid	8021B	5278

Prep Batch: 5278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4048-1	AH-1 (0-1')	Total/NA	Solid	5035	
880-4048-2	AH-3 (0-1')	Total/NA	Solid	5035	
880-4048-3	AH-4 (0-1')	Total/NA	Solid	5035	
880-4048-4	AH-5 (0-1')	Total/NA	Solid	5035	
880-4048-5	AH-6 (0-1')	Total/NA	Solid	5035	
880-4048-6	AH-7 (0-1')	Total/NA	Solid	5035	
880-4048-7	H-N	Total/NA	Solid	5035	
880-4048-8	H-S	Total/NA	Solid	5035	
MB 880-5278/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5278/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5278/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4048-1 MS	AH-1 (0-1')	Total/NA	Solid	5035	
880-4048-1 MSD	AH-1 (0-1')	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 5268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4048-1	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-4048-2	AH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-4048-3	AH-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-4048-4	AH-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-4048-5	AH-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-4048-6	AH-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-4048-7	H-N	Total/NA	Solid	8015NM Prep	
880-4048-8	H-S	Total/NA	Solid	8015NM Prep	
MB 880-5268/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5268/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

GC Semi VOA

Analysis Batch: 5327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4048-1	AH-1 (0-1')	Total/NA	Solid	8015B NM	5268
880-4048-2	AH-3 (0-1')	Total/NA	Solid	8015B NM	5268
880-4048-3	AH-4 (0-1')	Total/NA	Solid	8015B NM	5268
880-4048-4	AH-5 (0-1')	Total/NA	Solid	8015B NM	5268
880-4048-5	AH-6 (0-1')	Total/NA	Solid	8015B NM	5268
880-4048-6	AH-7 (0-1')	Total/NA	Solid	8015B NM	5268
880-4048-7	H-N	Total/NA	Solid	8015B NM	5268
880-4048-8	H-S	Total/NA	Solid	8015B NM	5268
MB 880-5268/1-A	Method Blank	Total/NA	Solid	8015B NM	5268
LCS 880-5268/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5268
LCSD 880-5268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5268

HPLC/IC

Leach Batch: 5285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4048-1	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-4048-2	AH-3 (0-1')	Soluble	Solid	DI Leach	
880-4048-3	AH-4 (0-1')	Soluble	Solid	DI Leach	
880-4048-4	AH-5 (0-1')	Soluble	Solid	DI Leach	
880-4048-5	AH-6 (0-1')	Soluble	Solid	DI Leach	
880-4048-6	AH-7 (0-1')	Soluble	Solid	DI Leach	
880-4048-7	H-N	Soluble	Solid	DI Leach	
880-4048-8	H-S	Soluble	Solid	DI Leach	
MB 880-5285/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5285/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5285/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4048-1	AH-1 (0-1')	Soluble	Solid	300.0	5285
880-4048-2	AH-3 (0-1')	Soluble	Solid	300.0	5285
880-4048-3	AH-4 (0-1')	Soluble	Solid	300.0	5285
880-4048-4	AH-5 (0-1')	Soluble	Solid	300.0	5285
880-4048-5	AH-6 (0-1')	Soluble	Solid	300.0	5285
880-4048-6	AH-7 (0-1')	Soluble	Solid	300.0	5285
880-4048-7	H-N	Soluble	Solid	300.0	5285
880-4048-8	H-S	Soluble	Solid	300.0	5285
MB 880-5285/1-A	Method Blank	Soluble	Solid	300.0	5285
LCS 880-5285/2-A	Lab Control Sample	Soluble	Solid	300.0	5285
LCSD 880-5285/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5285

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

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

Lab Sample ID: 880-4048-1
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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	5278	07/16/21 11:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5266	07/17/21 00:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5268	07/16/21 09:00	DM	XEN MID
Total/NA	Analysis	8015B NM		5			5327	07/18/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5285	07/16/21 12:17	CH	XEN MID
Soluble	Analysis	300.0		5			5333	07/17/21 22:38	CH	XEN MID

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

Lab Sample ID: 880-4048-2
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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	5278	07/16/21 11:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5266	07/17/21 00:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5268	07/16/21 09:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5327	07/18/21 18:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5285	07/16/21 12:17	CH	XEN MID
Soluble	Analysis	300.0		1			5333	07/17/21 22:54	CH	XEN MID

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

Lab Sample ID: 880-4048-3
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5278	07/16/21 11:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5266	07/17/21 01:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5268	07/16/21 09:00	DM	XEN MID
Total/NA	Analysis	8015B NM		5			5327	07/18/21 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5285	07/16/21 12:17	CH	XEN MID
Soluble	Analysis	300.0		5			5333	07/17/21 22:59	CH	XEN MID

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

Lab Sample ID: 880-4048-4
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5278	07/16/21 11:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5266	07/17/21 01:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5268	07/16/21 09:00	DM	XEN MID
Total/NA	Analysis	8015B NM		5			5327	07/18/21 19:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5285	07/16/21 12:17	CH	XEN MID
Soluble	Analysis	300.0		1			5333	07/17/21 23:05	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

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

Lab Sample ID: 880-4048-5
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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	5278	07/16/21 11:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5266	07/17/21 01:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5268	07/16/21 09:00	DM	XEN MID
Total/NA	Analysis	8015B NM		5			5327	07/18/21 19:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5285	07/16/21 12:17	CH	XEN MID
Soluble	Analysis	300.0		5			5333	07/17/21 23:10	CH	XEN MID

Client Sample ID: AH-7 (0-1')

Lab Sample ID: 880-4048-6
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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	5278	07/16/21 11:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5266	07/17/21 02:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5268	07/16/21 09:00	DM	XEN MID
Total/NA	Analysis	8015B NM		5			5327	07/18/21 19:50	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5285	07/16/21 12:17	CH	XEN MID
Soluble	Analysis	300.0		1			5333	07/17/21 23:15	CH	XEN MID

Client Sample ID: H-N

Lab Sample ID: 880-4048-7
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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	5278	07/16/21 11:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5266	07/17/21 02:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5268	07/16/21 09:00	DM	XEN MID
Total/NA	Analysis	8015B NM		5			5327	07/18/21 20:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5285	07/16/21 12:17	CH	XEN MID
Soluble	Analysis	300.0		1			5333	07/17/21 23:21	CH	XEN MID

Client Sample ID: H-S

Lab Sample ID: 880-4048-8
Matrix: Solid
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:06

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	5278	07/16/21 11:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5266	07/17/21 02:51	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5268	07/16/21 09:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5327	07/18/21 20:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5285	07/16/21 12:17	CH	XEN MID
Soluble	Analysis	300.0		1			5333	07/17/21 23:26	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 880-4048-1
Project/Site: Llama Federal, 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	06-30-22

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Llama Federal, NM

Job ID: 880-4048-1

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: Llama Federal, NM

Job ID: 880-4048-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-4048-1	AH-1 (0-1')	Solid	07/14/21 09:15	07/15/21 16:06	
880-4048-2	AH-3 (0-1')	Solid	07/14/21 09:15	07/15/21 16:06	
880-4048-3	AH-4 (0-1')	Solid	07/14/21 09:15	07/15/21 16:06	
880-4048-4	AH-5 (0-1')	Solid	07/14/21 09:15	07/15/21 16:06	
880-4048-5	AH-6 (0-1')	Solid	07/14/21 09:15	07/15/21 16:06	
880-4048-6	AH-7 (0-1')	Solid	07/14/21 09:15	07/15/21 16:06	
880-4048-7	H-N	Solid	07/14/21 09:15	07/15/21 16:06	
880-4048-8	H-S	Solid	07/14/21 09:15	07/15/21 16:06	

880-4048

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

880-4048 Chain of Custody

Client Name	EOG	Site Manager	Paula Tocora Alonso
Project Name	Llama Federal #1	Contact Information	paula tocoraalonso@tetratech com
Project Location (county, state)	Eddy Co, NM	Project #	212C-MD-02419 task 2601
Invoice to	EOG James Kennedy		
Receiving Laboratory	Xenco	Sampler Signature	Colton Bickerstaff
Comments			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	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	Asbestos			Hold
	AH-1 (0-1')	7/14/2021	9 15		X						X		X												X							
	AH-3 (0-1')	7/14/2021	9 15		X						X		X												X							
	AH-4 (0-1')	7/14/2021	9 15		X						X		X												X							
	AH-5 (0-1')	7/14/2021	9 15		X						X		X												X							
	AH-6 (0-1')	7/14/2021	9 15		X						X		X												X							
	AH-7 (0-1')	7/14/2021	9 15		X						X		X												X							
	H-N	7/14/2021	9 15		X						X		X												X							
	H-S	7/14/2021	9 15		X						X		X												X							

Relinquished by	Date	Time	Received by	Date	Time
	7-15-21	1600		7/15/21	1600
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature
5.5/6.0
+0.5

REMARKS

☐ 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: 880-4048-1

Login Number: 4048 **List Source: Eurofins Xenco, Midland**
List Number: 1
Creator: Phillips, Kerianna

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-4050-1
Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: EOG - Llama Federal #1

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
7/19/2021 3:02:59 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 - Llama Federal #1

Laboratory Job ID: 880-4050-1
SDG: Eddy Co, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-4050-1
Project/Site: EOG - Llama Federal #1 SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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 - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, NM

Job ID: 880-4050-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-4050-1

Receipt
The sample was received on 7/15/2021 4:28 PM. Unless otherwise noted below, the sample 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
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 - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, NM

Client Sample ID: H-N (0-0.5)

Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:28

Lab Sample ID: 880-4050-1

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		07/16/21 11:59	07/17/21 03:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/16/21 11:59	07/17/21 03:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/16/21 11:59	07/17/21 03:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/16/21 11:59	07/17/21 03:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/16/21 11:59	07/17/21 03:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/16/21 11:59	07/17/21 03:11	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/16/21 11:59	07/17/21 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/16/21 11:59*	*07/17/21 03:11*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/16/21 11:59*	*07/17/21 03:11*	*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	<50.0	U	50.0		mg/Kg		07/16/21 09:00	07/18/21 20:32	1
Diesel Range Organics (Over C10-C28)	**592**		50.0		mg/Kg		07/16/21 09:00	07/18/21 20:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/16/21 09:00	07/18/21 20:32	1
Total TPH	**592**		50.0		mg/Kg		07/16/21 09:00	07/18/21 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/16/21 09:00*	*07/18/21 20:32*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*07/16/21 09:00*	*07/18/21 20:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8660**		50.0		mg/Kg			07/19/21 11:53	10

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, 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)										
880-4050-1	H-N (0-0.5)	111	107										
LCS 880-5278/1-A	Lab Control Sample	107	104										
LCSD 880-5278/2-A	Lab Control Sample Dup	103	104										
MB 880-5264/5-A	Method Blank	99	99										
MB 880-5278/5-A	Method Blank	89	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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-4050-1	H-N (0-0.5)	103	155 S1+										
LCS 880-5268/2-A	Lab Control Sample	92	89										
LCSD 880-5268/3-A	Lab Control Sample Dup	104	97										
MB 880-5268/1-A	Method Blank	92	96										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5264/5-A
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/16/21 08:35	07/16/21 13:17	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/16/21 08:35	07/16/21 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/16/21 08:35*	*07/16/21 13:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/16/21 08:35*	*07/16/21 13:17*	*1*

Lab Sample ID: MB 880-5278/5-A
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/16/21 11:59	07/17/21 00:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/16/21 11:59	07/17/21 00:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/16/21 11:59*	*07/17/21 00:07*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/16/21 11:59*	*07/17/21 00:07*	*1*

Lab Sample ID: LCS 880-5278/1-A
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09218		mg/Kg		92	70 - 130
Toluene	0.100	0.08426		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08191		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1626		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08437		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-5278/2-A
Matrix: Solid
Analysis Batch: 5266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5278

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09313		mg/Kg		93	70 - 130	1	35
Toluene			0.100	0.08476		mg/Kg		85	70 - 130	1	35
Ethylbenzene			0.100	0.08152		mg/Kg		82	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1642		mg/Kg		82	70 - 130	1	35
o-Xylene			0.100	0.08370		mg/Kg		84	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-5268/1-A
Matrix: Solid
Analysis Batch: 5327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5268

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		07/16/21 09:00	07/18/21 12:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/16/21 09:00	07/18/21 12:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/16/21 09:00	07/18/21 12:08	1
Total TPH	<50.0	U	50.0		mg/Kg		07/16/21 09:00	07/18/21 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/16/21 09:00*	*07/18/21 12:08*	*1*
o-Terphenyl	*96*		*70 - 130*	*07/16/21 09:00*	*07/18/21 12:08*	*1*

Lab Sample ID: LCS 880-5268/2-A
Matrix: Solid
Analysis Batch: 5327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5268

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	774.4		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	837.3		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: LCSD 880-5268/3-A
Matrix: Solid
Analysis Batch: 5327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5268

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	855.6		mg/Kg		86	70 - 130	10	20

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-5268/3-A
Matrix: Solid
Analysis Batch: 5327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5268

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	942.6		mg/Kg		94	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5294/1-A
Matrix: Solid
Analysis Batch: 5343

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			07/18/21 13:35	1

Lab Sample ID: LCS 880-5294/2-A
Matrix: Solid
Analysis Batch: 5343

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	239.0		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-5294/3-A
Matrix: Solid
Analysis Batch: 5343

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	238.6		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 5264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5264/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 5266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4050-1	H-N (0-0.5)	Total/NA	Solid	8021B	5278
MB 880-5264/5-A	Method Blank	Total/NA	Solid	8021B	5264
MB 880-5278/5-A	Method Blank	Total/NA	Solid	8021B	5278
LCS 880-5278/1-A	Lab Control Sample	Total/NA	Solid	8021B	5278
LCSD 880-5278/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5278

Prep Batch: 5278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4050-1	H-N (0-0.5)	Total/NA	Solid	5035	
MB 880-5278/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5278/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5278/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 5268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4050-1	H-N (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-5268/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5268/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4050-1	H-N (0-0.5)	Total/NA	Solid	8015B NM	5268
MB 880-5268/1-A	Method Blank	Total/NA	Solid	8015B NM	5268
LCS 880-5268/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5268
LCSD 880-5268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5268

HPLC/IC

Leach Batch: 5294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4050-1	H-N (0-0.5)	Soluble	Solid	DI Leach	
MB 880-5294/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5294/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5294/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4050-1	H-N (0-0.5)	Soluble	Solid	300.0	5294
MB 880-5294/1-A	Method Blank	Soluble	Solid	300.0	5294
LCS 880-5294/2-A	Lab Control Sample	Soluble	Solid	300.0	5294
LCSD 880-5294/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5294

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, NM

Client Sample ID: H-N (0-0.5)
Date Collected: 07/14/21 09:15
Date Received: 07/15/21 16:28

Lab Sample ID: 880-4050-1
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			5.05 g	5 mL	5278	07/16/21 11:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5266	07/17/21 03:11	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5268	07/16/21 09:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5327	07/18/21 20:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5294	07/16/21 15:20	SC	XEN MID
Soluble	Analysis	300.0		10			5343	07/19/21 11:53	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 - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, 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	06-30-22

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: EOG - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, 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 - Llama Federal #1

Job ID: 880-4050-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-4050-1	H-N (0-0.5)	Solid	07/14/21 09:15	07/15/21 16:28	

880-4050

Page 1 of 1

Analysis Request of Chain of Custody Record

880-4050 Chain of Custody

Tetra Tech, Inc.

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

Client Name EOG	**Site Manager** Paula Tocora Alonso
Project Name Llama Federal #1	**Contact Information** paula tocoraalonso@tetratech com
Project Location (county, state) Eddy Co, NM	**Project #:** 212C-MD-02419 task 2601
Invoice to EOG James Kennedy	
Receiving Laboratory Xenco	**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	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	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	Asbestos			Hold
	H-N (0-0 5')	7/14/2021	9 15		X						X		X												X							

Relinquished by	Date	Time	Received by	Date	Time
	7-15-21	1606		7/15/21	1606
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

- ☐ 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: 880-4050-1
SDG Number: Eddy Co, NM

Login Number: 4050
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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-7548-1
Laboratory Sample Delivery Group: Eddy County NM
Client Project/Site: EOG-Llama All Fed #1

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
11/1/2021 12:59:57 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-Llama All Fed #1

Laboratory Job ID: 880-7548-1
SDG: Eddy County NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-7548-1
Project/Site: EOG-Llama All Fed #1 SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
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
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-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Job ID: 880-7548-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-7548-1

Receipt
The samples were received on 10/25/2021 4:57 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 3.7°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10593 and analytical batch 880-10594 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.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-1 (6'-7') (880-7548-4) and BH-1 (10') (880-7548-5). Evidence of matrix interferences is not obvious.

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 and precision for preparation batch 880-10607 and analytical batch 880-10631 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Client Sample ID: BH-1 (0'-1')

Lab Sample ID: 880-7548-1
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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		10/26/21 09:12	10/27/21 00:03	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		10/26/21 09:12	10/27/21 00:03	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		10/26/21 09:12	10/27/21 00:03	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		10/26/21 09:12	10/27/21 00:03	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		10/26/21 09:12	10/27/21 00:03	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		10/26/21 09:12	10/27/21 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*10/26/21 09:12*	*10/27/21 00:03*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/26/21 09:12*	*10/27/21 00:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/29/21 09:40	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		10/27/21 11:37	10/28/21 11:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 11:37	10/28/21 11:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 11:37	10/28/21 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*10/27/21 11:37*	*10/28/21 11:04*	*1*
o-Terphenyl	*112*		*70 - 130*	*10/27/21 11:37*	*10/28/21 11:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.8**		5.01		mg/Kg			10/27/21 11:40	1

Client Sample ID: BH-1 (2'-3')

Lab Sample ID: 880-7548-2
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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		10/26/21 09:12	10/27/21 00:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/27/21 00:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/27/21 00:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/26/21 09:12	10/27/21 00:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/27/21 00:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/26/21 09:12	10/27/21 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*10/26/21 09:12*	*10/27/21 00:23*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/26/21 09:12*	*10/27/21 00:23*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Client Sample ID: BH-1 (2'-3')

Lab Sample ID: 880-7548-2
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/29/21 09:40	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		10/27/21 11:37	10/28/21 12:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 11:37	10/28/21 12:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 11:37	10/28/21 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*10/27/21 11:37*	*10/28/21 12:07*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/27/21 11:37*	*10/28/21 12:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.8**		5.05		mg/Kg			10/27/21 11:48	1

Client Sample ID: BH-1 (4'-5')

Lab Sample ID: 880-7548-3
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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		10/26/21 09:12	10/27/21 00:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/26/21 09:12	10/27/21 00:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/26/21 09:12	10/27/21 00:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/26/21 09:12	10/27/21 00:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/26/21 09:12	10/27/21 00:44	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/26/21 09:12	10/27/21 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*10/26/21 09:12*	*10/27/21 00:44*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*10/26/21 09:12*	*10/27/21 00:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/29/21 09:40	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		10/27/21 11:37	10/28/21 12:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 11:37	10/28/21 12:29	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Client Sample ID: BH-1 (4'-5')

Lab Sample ID: 880-7548-3
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 11:37	10/28/21 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*10/27/21 11:37*	*10/28/21 12:29*	*1*
o-Terphenyl	*107*		*70 - 130*	*10/27/21 11:37*	*10/28/21 12:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.9**		5.03		mg/Kg			10/27/21 11:55	1

Client Sample ID: BH-1 (6'-7')

Lab Sample ID: 880-7548-4
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/26/21 09:12	10/27/21 01:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/26/21 09:12	10/27/21 01:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/26/21 09:12	10/27/21 01:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/26/21 09:12	10/27/21 01:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/26/21 09:12	10/27/21 01:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/26/21 09:12	10/27/21 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*10/26/21 09:12*	*10/27/21 01:04*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/26/21 09:12*	*10/27/21 01:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/29/21 09:40	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		10/27/21 11:37	10/28/21 12:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 11:37	10/28/21 12:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 11:37	10/28/21 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*10/27/21 11:37*	*10/28/21 12:50*	*1*
o-Terphenyl	*112*		*70 - 130*	*10/27/21 11:37*	*10/28/21 12:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.1**		4.99		mg/Kg			10/27/21 12:02	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Client Sample ID: BH-1 (10')

Lab Sample ID: 880-7548-5
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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		10/26/21 09:12	10/27/21 01:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/26/21 09:12	10/27/21 01:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/26/21 09:12	10/27/21 01:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/26/21 09:12	10/27/21 01:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/26/21 09:12	10/27/21 01:25	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/26/21 09:12	10/27/21 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*10/26/21 09:12*	*10/27/21 01:25*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*10/26/21 09:12*	*10/27/21 01:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/29/21 09:40	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		10/27/21 11:37	10/28/21 13:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/27/21 11:37	10/28/21 13:11	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/27/21 11:37	10/28/21 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*10/27/21 11:37*	*10/28/21 13:11*	*1*
o-Terphenyl	*110*		*70 - 130*	*10/27/21 11:37*	*10/28/21 13:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**698**		4.99		mg/Kg			10/27/21 12:09	1

Client Sample ID: BH-1 (15')

Lab Sample ID: 880-7548-6
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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		10/26/21 09:12	10/27/21 01:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/26/21 09:12	10/27/21 01:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/26/21 09:12	10/27/21 01:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/26/21 09:12	10/27/21 01:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/26/21 09:12	10/27/21 01:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/26/21 09:12	10/27/21 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*10/26/21 09:12*	*10/27/21 01:45*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/26/21 09:12*	*10/27/21 01:45*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Client Sample ID: BH-1 (15')

Lab Sample ID: 880-7548-6
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/29/21 09:40	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		10/27/21 11:37	10/28/21 13:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 11:37	10/28/21 13:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 11:37	10/28/21 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*10/27/21 11:37*	*10/28/21 13:32*	*1*
o-Terphenyl	*111*		*70 - 130*	*10/27/21 11:37*	*10/28/21 13:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2420**		25.1		mg/Kg			10/27/21 12:16	5

Client Sample ID: BH-1 (20')

Lab Sample ID: 880-7548-7
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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		10/26/21 09:12	10/27/21 02:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/27/21 02:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/27/21 02:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/26/21 09:12	10/27/21 02:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/27/21 02:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/26/21 09:12	10/27/21 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*10/26/21 09:12*	*10/27/21 02:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/26/21 09:12*	*10/27/21 02:05*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/29/21 13:53	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		10/27/21 10:00	10/27/21 18:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/27/21 10:00	10/27/21 18:47	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Client Sample ID: BH-1 (20')
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

Lab Sample ID: 880-7548-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/27/21 10:00	10/27/21 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*10/27/21 10:00*	*10/27/21 18:47*	*1*
o-Terphenyl	*124*		*70 - 130*	*10/27/21 10:00*	*10/27/21 18:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.7**	**F1**	4.95		mg/Kg			10/26/21 15:22	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy 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)
880-7548-1	BH-1 (0'-1')	104	105
880-7548-1 MS	BH-1 (0'-1')	106	104
880-7548-1 MSD	BH-1 (0'-1')	115	109
880-7548-2	BH-1 (2'-3')	123	98
880-7548-3	BH-1 (4'-5')	122	73
880-7548-4	BH-1 (6'-7')	132 S1+	99
880-7548-5	BH-1 (10')	143 S1+	67 S1-
880-7548-6	BH-1 (15')	127	95
880-7548-7	BH-1 (20')	130	97
LCS 880-10593/1-A	Lab Control Sample	107	107
LCSD 880-10593/2-A	Lab Control Sample Dup	104	107
MB 880-10200/5-A	Method Blank	116	101
MB 880-10593/5-A	Method Blank	110	95

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)
880-7548-1	BH-1 (0'-1')	106	112
880-7548-1 MS	BH-1 (0'-1')	99	96
880-7548-1 MSD	BH-1 (0'-1')	96	93
880-7548-2	BH-1 (2'-3')	104	108
880-7548-3	BH-1 (4'-5')	101	107
880-7548-4	BH-1 (6'-7')	106	112
880-7548-5	BH-1 (10')	105	110
880-7548-6	BH-1 (15')	106	111
880-7548-7	BH-1 (20')	109	124
890-1448-A-4-F MS	Matrix Spike	104	102
890-1448-A-4-G MSD	Matrix Spike Duplicate	101	99
LCS 880-10652/2-A	Lab Control Sample	88	95
LCS 880-10715/2-A	Lab Control Sample	87	91
LCSD 880-10652/3-A	Lab Control Sample Dup	77	83
LCSD 880-10715/3-A	Lab Control Sample Dup	95	99
MB 880-10652/1-A	Method Blank	109	128
MB 880-10715/1-A	Method Blank	109	120

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10200/5-A
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/26/21 08:30	10/26/21 12:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/21 08:30	10/26/21 12:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/21 08:30	10/26/21 12:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/26/21 08:30	10/26/21 12:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/21 08:30	10/26/21 12:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/26/21 08:30	10/26/21 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/26/21 08:30*	*10/26/21 12:48*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/26/21 08:30*	*10/26/21 12:48*	*1*

Lab Sample ID: MB 880-10593/5-A
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/26/21 23:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/26/21 23:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/26/21 23:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/26/21 09:12	10/26/21 23:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/21 09:12	10/26/21 23:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/26/21 09:12	10/26/21 23:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/26/21 09:12*	*10/26/21 23:41*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/26/21 09:12*	*10/26/21 23:41*	*1*

Lab Sample ID: LCS 880-10593/1-A
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1006		mg/Kg		101	70 - 130
Toluene	0.100	0.09131		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08984		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1840		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09319		mg/Kg		93	70 - 130

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

Lab Sample ID: LCSD 880-10593/2-A
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 10593

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09287		mg/Kg		93	70 - 130	8	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-10593/2-A
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 10593

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.08177		mg/Kg		82	70 - 130	11	35
Ethylbenzene			0.100	0.08158		mg/Kg		82	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.1675		mg/Kg		84	70 - 130	9	35
o-Xylene			0.100	0.08487		mg/Kg		85	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-7548-1 MS
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: BH-1 (0'-1')
Prep Type: Total/NA
Prep Batch: 10593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.101	0.07091		mg/Kg		70	70 - 130
Toluene	<0.00199	U F1	0.101	0.06471	F1	mg/Kg		64	70 - 130
Ethylbenzene	<0.00199	U F1	0.101	0.06192	F1	mg/Kg		61	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1307	F1	mg/Kg		65	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.06601	F1	mg/Kg		65	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-7548-1 MSD
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: BH-1 (0'-1')
Prep Type: Total/NA
Prep Batch: 10593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.08348		mg/Kg		82	70 - 130	16	35
Toluene	<0.00199	U F1	0.101	0.07281		mg/Kg		72	70 - 130	12	35
Ethylbenzene	<0.00199	U F1	0.101	0.07175		mg/Kg		71	70 - 130	15	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1509		mg/Kg		75	70 - 130	14	35
o-Xylene	<0.00199	U F1	0.101	0.07588		mg/Kg		75	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

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

Lab Sample ID: MB 880-10652/1-A
Matrix: Solid
Analysis Batch: 10661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10652

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		10/26/21 16:36	10/27/21 10:17	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-10652/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 10661 — **Prep Batch: 10652**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/21 16:36	10/27/21 10:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/21 16:36	10/27/21 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*10/26/21 16:36*	*10/27/21 10:17*	*1*
o-Terphenyl	*128*		*70 - 130*	*10/26/21 16:36*	*10/27/21 10:17*	*1*

Lab Sample ID: LCS 880-10652/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 10661 — **Prep Batch: 10652**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1296		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	1000	781.6		mg/Kg		78	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: LCSD 880-10652/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 10661 — **Prep Batch: 10652**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1146		mg/Kg		115	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	757.1		mg/Kg		76	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 890-1448-A-4-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 10661 — **Prep Batch: 10652**

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	997	1197		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	922.5		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

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

Lab Sample ID: 890-1448-A-4-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 10661 — **Prep Batch: 10652**

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	1000	1125		mg/Kg		112	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	914.6		mg/Kg		88	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: MB 880-10715/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 10806 — **Prep Batch: 10715**

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		10/27/21 11:37	10/28/21 10:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 11:37	10/28/21 10:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 11:37	10/28/21 10:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*10/27/21 11:37*	*10/28/21 10:00*	*1*
o-Terphenyl	*120*		*70 - 130*	*10/27/21 11:37*	*10/28/21 10:00*	*1*

Lab Sample ID: LCS 880-10715/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 10806 — **Prep Batch: 10715**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	819.6		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	897.7		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-10715/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 10806 — **Prep Batch: 10715**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	830.7		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	892.3		mg/Kg		89	70 - 130	1	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-10715/3-A
Matrix: Solid
Analysis Batch: 10806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 10715

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-7548-1 MS
Matrix: Solid
Analysis Batch: 10806

Client Sample ID: BH-1 (0'-1')
Prep Type: Total/NA
Prep Batch: 10715

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	997	891.6		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	830.5		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-7548-1 MSD
Matrix: Solid
Analysis Batch: 10806

Client Sample ID: BH-1 (0'-1')
Prep Type: Total/NA
Prep Batch: 10715

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	1000	886.4		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	812.7		mg/Kg		79	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	93		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10607/1-A
Matrix: Solid
Analysis Batch: 10631

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			10/26/21 15:01	1

Lab Sample ID: LCS 880-10607/2-A
Matrix: Solid
Analysis Batch: 10631

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	215.9		mg/Kg		108	90 - 110

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-10607/3-A
Matrix: Solid
Analysis Batch: 10631

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			200	208.7		mg/Kg		104	90 - 110	3	20

Lab Sample ID: 880-7548-7 MS
Matrix: Solid
Analysis Batch: 10631

Client Sample ID: BH-1 (20')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	92.7	F1	248	323.0		mg/Kg		93	90 - 110

Lab Sample ID: 880-7548-7 MSD
Matrix: Solid
Analysis Batch: 10631

Client Sample ID: BH-1 (20')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	92.7	F1	248	304.6	F1	mg/Kg		86	90 - 110	6	20

Lab Sample ID: MB 880-10429/1-A
Matrix: Solid
Analysis Batch: 10651

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			10/26/21 19:04	1

Lab Sample ID: LCS 880-10429/2-A
Matrix: Solid
Analysis Batch: 10651

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			200	215.8		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-10429/3-A
Matrix: Solid
Analysis Batch: 10651

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			200	211.1		mg/Kg		106	90 - 110	2	20

Lab Sample ID: 880-7508-A-5-C MS
Matrix: Solid
Analysis Batch: 10651

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	103		250	369.0		mg/Kg		107	90 - 110

Lab Sample ID: 880-7508-A-5-D MSD
Matrix: Solid
Analysis Batch: 10651

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	103		249	349.6		mg/Kg		99	90 - 110	5	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

GC VOA

Prep Batch: 10200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10200/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 10593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-1	BH-1 (0'-1')	Total/NA	Solid	5035	
880-7548-2	BH-1 (2'-3')	Total/NA	Solid	5035	
880-7548-3	BH-1 (4'-5')	Total/NA	Solid	5035	
880-7548-4	BH-1 (6'-7')	Total/NA	Solid	5035	
880-7548-5	BH-1 (10')	Total/NA	Solid	5035	
880-7548-6	BH-1 (15')	Total/NA	Solid	5035	
880-7548-7	BH-1 (20')	Total/NA	Solid	5035	
MB 880-10593/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10593/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10593/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7548-1 MS	BH-1 (0'-1')	Total/NA	Solid	5035	
880-7548-1 MSD	BH-1 (0'-1')	Total/NA	Solid	5035	

Analysis Batch: 10594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-1	BH-1 (0'-1')	Total/NA	Solid	8021B	10593
880-7548-2	BH-1 (2'-3')	Total/NA	Solid	8021B	10593
880-7548-3	BH-1 (4'-5')	Total/NA	Solid	8021B	10593
880-7548-4	BH-1 (6'-7')	Total/NA	Solid	8021B	10593
880-7548-5	BH-1 (10')	Total/NA	Solid	8021B	10593
880-7548-6	BH-1 (15')	Total/NA	Solid	8021B	10593
880-7548-7	BH-1 (20')	Total/NA	Solid	8021B	10593
MB 880-10200/5-A	Method Blank	Total/NA	Solid	8021B	10200
MB 880-10593/5-A	Method Blank	Total/NA	Solid	8021B	10593
LCS 880-10593/1-A	Lab Control Sample	Total/NA	Solid	8021B	10593
LCSD 880-10593/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10593
880-7548-1 MS	BH-1 (0'-1')	Total/NA	Solid	8021B	10593
880-7548-1 MSD	BH-1 (0'-1')	Total/NA	Solid	8021B	10593

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-1	BH-1 (0'-1')	Total/NA	Solid	Total BTEX	
880-7548-2	BH-1 (2'-3')	Total/NA	Solid	Total BTEX	
880-7548-3	BH-1 (4'-5')	Total/NA	Solid	Total BTEX	
880-7548-4	BH-1 (6'-7')	Total/NA	Solid	Total BTEX	
880-7548-5	BH-1 (10')	Total/NA	Solid	Total BTEX	
880-7548-6	BH-1 (15')	Total/NA	Solid	Total BTEX	
880-7548-7	BH-1 (20')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 10652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-7	BH-1 (20')	Total/NA	Solid	8015NM Prep	
MB 880-10652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-7548-1
Project/Site: EOG-Llama All Fed #1 SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 10652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1448-A-4-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1448-A-4-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-7	BH-1 (20')	Total/NA	Solid	8015B NM	10652
MB 880-10652/1-A	Method Blank	Total/NA	Solid	8015B NM	10652
LCS 880-10652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10652
LCSD 880-10652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10652
890-1448-A-4-F MS	Matrix Spike	Total/NA	Solid	8015B NM	10652
890-1448-A-4-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10652

Prep Batch: 10715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-1	BH-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-7548-2	BH-1 (2'-3')	Total/NA	Solid	8015NM Prep	
880-7548-3	BH-1 (4'-5')	Total/NA	Solid	8015NM Prep	
880-7548-4	BH-1 (6'-7')	Total/NA	Solid	8015NM Prep	
880-7548-5	BH-1 (10')	Total/NA	Solid	8015NM Prep	
880-7548-6	BH-1 (15')	Total/NA	Solid	8015NM Prep	
MB 880-10715/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10715/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10715/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7548-1 MS	BH-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-7548-1 MSD	BH-1 (0'-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-1	BH-1 (0'-1')	Total/NA	Solid	8015B NM	10715
880-7548-2	BH-1 (2'-3')	Total/NA	Solid	8015B NM	10715
880-7548-3	BH-1 (4'-5')	Total/NA	Solid	8015B NM	10715
880-7548-4	BH-1 (6'-7')	Total/NA	Solid	8015B NM	10715
880-7548-5	BH-1 (10')	Total/NA	Solid	8015B NM	10715
880-7548-6	BH-1 (15')	Total/NA	Solid	8015B NM	10715
MB 880-10715/1-A	Method Blank	Total/NA	Solid	8015B NM	10715
LCS 880-10715/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10715
LCSD 880-10715/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10715
880-7548-1 MS	BH-1 (0'-1')	Total/NA	Solid	8015B NM	10715
880-7548-1 MSD	BH-1 (0'-1')	Total/NA	Solid	8015B NM	10715

Analysis Batch: 10912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-1	BH-1 (0'-1')	Total/NA	Solid	8015 NM	
880-7548-2	BH-1 (2'-3')	Total/NA	Solid	8015 NM	
880-7548-3	BH-1 (4'-5')	Total/NA	Solid	8015 NM	
880-7548-4	BH-1 (6'-7')	Total/NA	Solid	8015 NM	
880-7548-5	BH-1 (10')	Total/NA	Solid	8015 NM	
880-7548-6	BH-1 (15')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 10946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-7	BH-1 (20')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 10429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-1	BH-1 (0'-1')	Soluble	Solid	DI Leach	
880-7548-2	BH-1 (2'-3')	Soluble	Solid	DI Leach	
880-7548-3	BH-1 (4'-5')	Soluble	Solid	DI Leach	
880-7548-4	BH-1 (6'-7')	Soluble	Solid	DI Leach	
880-7548-5	BH-1 (10')	Soluble	Solid	DI Leach	
880-7548-6	BH-1 (15')	Soluble	Solid	DI Leach	
MB 880-10429/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10429/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10429/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7508-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7508-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 10607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-7	BH-1 (20')	Soluble	Solid	DI Leach	
MB 880-10607/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10607/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10607/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7548-7 MS	BH-1 (20')	Soluble	Solid	DI Leach	
880-7548-7 MSD	BH-1 (20')	Soluble	Solid	DI Leach	

Analysis Batch: 10631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-7	BH-1 (20')	Soluble	Solid	300.0	10607
MB 880-10607/1-A	Method Blank	Soluble	Solid	300.0	10607
LCS 880-10607/2-A	Lab Control Sample	Soluble	Solid	300.0	10607
LCSD 880-10607/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10607
880-7548-7 MS	BH-1 (20')	Soluble	Solid	300.0	10607
880-7548-7 MSD	BH-1 (20')	Soluble	Solid	300.0	10607

Analysis Batch: 10651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7548-1	BH-1 (0'-1')	Soluble	Solid	300.0	10429
880-7548-2	BH-1 (2'-3')	Soluble	Solid	300.0	10429
880-7548-3	BH-1 (4'-5')	Soluble	Solid	300.0	10429
880-7548-4	BH-1 (6'-7')	Soluble	Solid	300.0	10429
880-7548-5	BH-1 (10')	Soluble	Solid	300.0	10429
880-7548-6	BH-1 (15')	Soluble	Solid	300.0	10429
MB 880-10429/1-A	Method Blank	Soluble	Solid	300.0	10429
LCS 880-10429/2-A	Lab Control Sample	Soluble	Solid	300.0	10429
LCSD 880-10429/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10429
880-7508-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	10429
880-7508-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	10429

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Client Sample ID: BH-1 (0'-1')

Lab Sample ID: 880-7548-1
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 00:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10912	10/29/21 09:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10715	10/27/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10806	10/28/21 11:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	10429	10/25/21 20:05	SC	XEN MID
Soluble	Analysis	300.0		1			10651	10/27/21 11:40	CH	XEN MID

Client Sample ID: BH-1 (2'-3')

Lab Sample ID: 880-7548-2
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 00:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10912	10/29/21 09:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10715	10/27/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10806	10/28/21 12:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10429	10/25/21 20:05	SC	XEN MID
Soluble	Analysis	300.0		1			10651	10/27/21 11:48	CH	XEN MID

Client Sample ID: BH-1 (4'-5')

Lab Sample ID: 880-7548-3
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

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	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 00:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10912	10/29/21 09:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10715	10/27/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10806	10/28/21 12:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	10429	10/25/21 20:05	SC	XEN MID
Soluble	Analysis	300.0		1			10651	10/27/21 11:55	CH	XEN MID

Client Sample ID: BH-1 (6'-7')

Lab Sample ID: 880-7548-4
Matrix: Solid
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 01:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-7548-1
Project/Site: EOG-Llama All Fed #1 SDG: Eddy County NM

Client Sample ID: BH-1 (6'-7') Lab Sample ID: 880-7548-4

Date Collected: 10/25/21 13:45 **Matrix: Solid**
Date Received: 10/25/21 16:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10912	10/29/21 09:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10715	10/27/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10806	10/28/21 12:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10429	10/25/21 20:05	SC	XEN MID
Soluble	Analysis	300.0		1			10651	10/27/21 12:02	CH	XEN MID

Client Sample ID: BH-1 (10') Lab Sample ID: 880-7548-5

Date Collected: 10/25/21 13:45 **Matrix: Solid**
Date Received: 10/25/21 16:57

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	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 01:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10912	10/29/21 09:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10715	10/27/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10806	10/28/21 13:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10429	10/25/21 20:05	SC	XEN MID
Soluble	Analysis	300.0		1			10651	10/27/21 12:09	CH	XEN MID

Client Sample ID: BH-1 (15') Lab Sample ID: 880-7548-6

Date Collected: 10/25/21 13:45 **Matrix: Solid**
Date Received: 10/25/21 16:57

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	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 01:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10912	10/29/21 09:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10715	10/27/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10806	10/28/21 13:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	10429	10/25/21 20:05	SC	XEN MID
Soluble	Analysis	300.0		5			10651	10/27/21 12:16	CH	XEN MID

Client Sample ID: BH-1 (20') Lab Sample ID: 880-7548-7

Date Collected: 10/25/21 13:45 **Matrix: Solid**
Date Received: 10/25/21 16:57

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	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 02:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10652	10/27/21 10:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10661	10/27/21 18:47	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Client Sample ID: BH-1 (20')
Date Collected: 10/25/21 13:45
Date Received: 10/25/21 16:57

Lab Sample ID: 880-7548-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	10607	10/26/21 09:57	SC	XEN MID
Soluble	Analysis	300.0		1			10631	10/26/21 15:22	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-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy 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	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

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-Llama All Fed #1

Job ID: 880-7548-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-7548-1	BH-1 (0'-1')	Solid	10/25/21 13:45	10/25/21 16:57
880-7548-2	BH-1 (2'-3')	Solid	10/25/21 13:45	10/25/21 16:57
880-7548-3	BH-1 (4'-5')	Solid	10/25/21 13:45	10/25/21 16:57
880-7548-4	BH-1 (6'-7')	Solid	10/25/21 13:45	10/25/21 16:57
880-7548-5	BH-1 (10')	Solid	10/25/21 13:45	10/25/21 16:57
880-7548-6	BH-1 (15')	Solid	10/25/21 13:45	10/25/21 16:57
880-7548-7	BH-1 (20')	Solid	10/25/21 13:45	10/25/21 16:57

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

880-7548 Chain of Custody

11/1/2021

Client Name: EOG	Site Manager: Paula Tocora
Project Name: Llama All Fed #1	
Project Location (county, state): Eddy County, NM	Project #: 212C-MD-02419, Task 2601
Invoice to: EOG, Attention James Kennedy	
Receiving Laboratory: Eurofins Xenco	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			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	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	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			
	BH-1 (0'-1')	10/25/2021	13 45		X				X			1	N	X		X												X						
	BH-1 (2'-3')	10/25/2021	13 45		X				X			1	N	X		X												X						
	BH-1 (4'-5')	10/25/2021	13 45		X				X			1	N	X		X												X						
	BH-1 (6'-7')	10/25/2021	13 45		X				X			1	N	X		X												X						
	BH-1 (8'-10')	10/25/2021	13 45		X				X			1	N	X		X												X						
	BH-1 (13'-15')	10/25/2021	13 45		X				X			1	N	X		X												X						
	BH-1 (18'-20')	10/25/2021	13 45		X				X			1	N	X		X												X						

Relinquished by	Date	Time	Received by	Date	Time
Colton Bickerstaff	10/25/21	17:00	[signature]	10/25	1700
Relinquished by	Date	Time	Received by	Date	Time
		1657			1657
Relinquished by	Date	Time	Received by	Date	Time

LAB USE ONLY
Sample Temperature 3.6/3.7

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

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ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-7548-1
SDG Number: Eddy County NM

Login Number: 7548
List Number: 1
Creator: Kramer, Jessica

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, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1554-1
Laboratory Sample Delivery Group: 212c-md-02419 Task 2600
Client Project/Site: Llama All Federal #1
Revision: 1

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

Attn: Paula TocoraAlonso

Jkramer

Authorized for release by:
11/17/2021 4:00:45 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: Llama All Federal #1

Laboratory Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-1554-1
Project/Site: Llama All Federal #1 SDG: 212c-md-02419 Task 2600

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Job ID: 890-1554-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1554-1

REVISION

The report being provided is a revision of the original report sent on 11/17/2021. The report (revision 1) is being revised due to Per client email, requesting chloride review on sample SW16.

Report revision history

Receipt
The samples were received on 11/9/2021 4:09 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 17.6°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11886 and analytical batch 880-12118 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.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-11886/1-A) and (LCSD 880-11886/2-A). Evidence of matrix interferences is not obvious.

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11991 and analytical batch 880-11994 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.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-1557-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-11991/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12041 and analytical batch 880-12084 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.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-1 (5) (890-1554-1), BH-2 (5) (890-1554-2), BH-3 (5) (890-1554-3), SW-2 (890-1554-7), SW-3 (890-1554-8), SW-6 (890-1554-11) and (MB 880-12041/1-A). Evidence of matrix interferences is not obvious.

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 and precision for preparation batch 880-12135 and analytical batch 880-12210 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Job ID: 890-1554-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: BH-1 (5)

Date Collected: 11/09/21 10:05
Date Received: 11/09/21 16:09
Sample Depth: 5

Lab Sample ID: 890-1554-1
Matrix: Solid

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		11/10/21 08:48	11/12/21 15:13	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		11/10/21 08:48	11/12/21 15:13	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		11/10/21 08:48	11/12/21 15:13	1
m-Xylene & p-Xylene	<0.00400	U F1	0.00400		mg/Kg		11/10/21 08:48	11/12/21 15:13	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		11/10/21 08:48	11/12/21 15:13	1
Xylenes, Total	<0.00400	U F1	0.00400		mg/Kg		11/10/21 08:48	11/12/21 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*11/10/21 08:48*	*11/12/21 15:13*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/10/21 08:48*	*11/12/21 15:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**363**		50.0		mg/Kg			11/15/21 15:49	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		11/11/21 14:19	11/12/21 13:54	1
Diesel Range Organics (Over C10-C28)	**298**		50.0		mg/Kg		11/11/21 14:19	11/12/21 13:54	1
Oil Range Organics (Over C28-C36)	**65.3**		50.0		mg/Kg		11/11/21 14:19	11/12/21 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*11/11/21 14:19*	*11/12/21 13:54*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*11/11/21 14:19*	*11/12/21 13:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**392**	**F1**	4.99		mg/Kg			11/16/21 21:56	1

Client Sample ID: BH-2 (5)

Date Collected: 11/09/21 10:22
Date Received: 11/09/21 16:09
Sample Depth: 5

Lab Sample ID: 890-1554-2
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		11/10/21 08:48	11/12/21 15:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 15:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 15:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/21 08:48	11/12/21 15:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 15:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/21 08:48	11/12/21 15:34	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: BH-2 (5)

Date Collected: 11/09/21 10:22
Date Received: 11/09/21 16:09
Sample Depth: 5

Lab Sample ID: 890-1554-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/10/21 08:48*	*11/12/21 15:34*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/21 08:48*	*11/12/21 15:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/21 15:49	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 F1	49.9		mg/Kg		11/11/21 14:19	11/12/21 12:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		11/11/21 14:19	11/12/21 12:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*11/11/21 14:19*	*11/12/21 12:52*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*11/11/21 14:19*	*11/12/21 12:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**251**		5.00		mg/Kg			11/16/21 22:11	1

Client Sample ID: BH-3 (5)

Date Collected: 11/09/21 10:41
Date Received: 11/09/21 16:09
Sample Depth: 5

Lab Sample ID: 890-1554-3

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		11/10/21 08:48	11/12/21 15:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 15:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 15:54	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/10/21 08:48	11/12/21 15:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 15:54	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/10/21 08:48	11/12/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/10/21 08:48*	*11/12/21 15:54*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/10/21 08:48*	*11/12/21 15:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/21 15:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: BH-3 (5)

Date Collected: 11/09/21 10:41
Date Received: 11/09/21 16:09
Sample Depth: 5

Lab Sample ID: 890-1554-3

Matrix: Solid

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		11/11/21 14:19	11/12/21 14:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 14:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*11/11/21 14:19*	*11/12/21 14:14*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*11/11/21 14:19*	*11/12/21 14:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.49**		4.95		mg/Kg			11/16/21 22:16	1

Client Sample ID: BH-4 (5)

Date Collected: 11/09/21 10:42
Date Received: 11/09/21 16:09
Sample Depth: 5

Lab Sample ID: 890-1554-4

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		11/10/21 08:48	11/12/21 16:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 16:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 16:15	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/10/21 08:48	11/12/21 16:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 16:15	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/10/21 08:48	11/12/21 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*11/10/21 08:48*	*11/12/21 16:15*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/10/21 08:48*	*11/12/21 16:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/21 15:49	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		11/11/21 14:19	11/12/21 14:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 14:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*11/11/21 14:19*	*11/12/21 14:34*	*1*
o-Terphenyl	*130*		*70 - 130*	*11/11/21 14:19*	*11/12/21 14:34*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: BH-4 (5)
Date Collected: 11/09/21 10:42
Date Received: 11/09/21 16:09
Sample Depth: 5

Lab Sample ID: 890-1554-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.62		4.97		mg/Kg			11/16/21 22:21	1

Client Sample ID: BH-5 (5)
Date Collected: 11/09/21 11:00
Date Received: 11/09/21 16:09
Sample Depth: 5

Lab Sample ID: 890-1554-5
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		11/10/21 08:48	11/12/21 16:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 16:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 16:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/21 08:48	11/12/21 16:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 16:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/21 08:48	11/12/21 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/10/21 08:48*	*11/12/21 16:36*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/10/21 08:48*	*11/12/21 16:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/21 15:49	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		11/11/21 14:19	11/12/21 14:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 14:55	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/11/21 14:19*	*11/12/21 14:55*	*1*
o-Terphenyl	*121*		*70 - 130*	*11/11/21 14:19*	*11/12/21 14:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		4.96		mg/Kg			11/16/21 22:26	1

Client Sample ID: SW-1
Date Collected: 11/09/21 10:07
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-6
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		11/10/21 08:48	11/12/21 16:56	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-1
Date Collected: 11/09/21 10:07
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 16:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 16:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/21 08:48	11/12/21 16:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 16:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/21 08:48	11/12/21 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/10/21 08:48*	*11/12/21 16:56*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/10/21 08:48*	*11/12/21 16:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**321**		49.7		mg/Kg			11/15/21 15:49	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	<49.7	U	49.7		mg/Kg		11/11/21 14:19	11/12/21 15:16	1
Diesel Range Organics (Over C10-C28)	**264**		49.7		mg/Kg		11/11/21 14:19	11/12/21 15:16	1
OII Range Organics (Over C28-C36)	**57.4**		49.7		mg/Kg		11/11/21 14:19	11/12/21 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*11/11/21 14:19*	*11/12/21 15:16*	*1*
o-Terphenyl	*118*		*70 - 130*	*11/11/21 14:19*	*11/12/21 15:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**431**		4.95		mg/Kg			11/16/21 22:41	1

Client Sample ID: SW-2
Date Collected: 11/09/21 10:09
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-7
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		11/10/21 08:48	11/12/21 17:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/10/21 08:48	11/12/21 17:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/10/21 08:48	11/12/21 17:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/10/21 08:48	11/12/21 17:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/10/21 08:48	11/12/21 17:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/10/21 08:48	11/12/21 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*11/10/21 08:48*	*11/12/21 17:17*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/10/21 08:48*	*11/12/21 17:17*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-2

Date Collected: 11/09/21 10:09
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-7
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/21 16:07	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	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 15:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 15:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*11/11/21 14:19*	*11/12/21 15:37*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*11/11/21 14:19*	*11/12/21 15:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**325**		5.00		mg/Kg			11/16/21 22:45	1

Client Sample ID: SW-3

Date Collected: 11/09/21 10:12
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-8
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		11/10/21 08:48	11/12/21 17:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 17:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 17:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/10/21 08:48	11/12/21 17:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 17:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/10/21 08:48	11/12/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/10/21 08:48*	*11/12/21 17:38*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/10/21 08:48*	*11/12/21 17:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**160**		49.9		mg/Kg			11/15/21 16:07	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		11/11/21 14:19	11/12/21 15:58	1
Diesel Range Organics (Over C10-C28)	**160**		49.9		mg/Kg		11/11/21 14:19	11/12/21 15:58	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-3
Date Collected: 11/09/21 10:12
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*11/11/21 14:19*	*11/12/21 15:58*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*11/11/21 14:19*	*11/12/21 15:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**461**		5.00		mg/Kg			11/16/21 22:50	1

Client Sample ID: SW-4
Date Collected: 11/09/21 10:15
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-9
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		11/10/21 08:48	11/12/21 17:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 17:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 17:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/21 08:48	11/12/21 17:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 17:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/21 08:48	11/12/21 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/10/21 08:48*	*11/12/21 17:59*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/10/21 08:48*	*11/12/21 17:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/21 16:07	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	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 16:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 16:18	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*11/11/21 14:19*	*11/12/21 16:18*	*1*
o-Terphenyl	*121*		*70 - 130*	*11/11/21 14:19*	*11/12/21 16:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**502**		4.98		mg/Kg			11/16/21 22:55	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-5

Date Collected: 11/09/21 10:24
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-10
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		11/10/21 08:48	11/12/21 18:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 18:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 18:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/21 08:48	11/12/21 18:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 18:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/21 08:48	11/12/21 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/10/21 08:48*	*11/12/21 18:19*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/10/21 08:48*	*11/12/21 18:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/21 16:07	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		11/11/21 14:19	11/12/21 16:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 16:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*11/11/21 14:19*	*11/12/21 16:39*	*1*
o-Terphenyl	*126*		*70 - 130*	*11/11/21 14:19*	*11/12/21 16:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**329**		5.01		mg/Kg			11/16/21 23:00	1

Client Sample ID: SW-6

Date Collected: 11/09/21 10:27
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-11
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		11/10/21 08:48	11/12/21 19:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 19:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 19:43	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/10/21 08:48	11/12/21 19:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 19:43	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/10/21 08:48	11/12/21 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/10/21 08:48*	*11/12/21 19:43*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/10/21 08:48*	*11/12/21 19:43*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-6

Date Collected: 11/09/21 10:27
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-11
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**155**		50.0		mg/Kg			11/15/21 16:07	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	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 17:21	1
Diesel Range Organics (Over C10-C28)	**155**		50.0		mg/Kg		11/11/21 14:19	11/12/21 17:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*11/11/21 14:19*	*11/12/21 17:21*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*11/11/21 14:19*	*11/12/21 17:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**884**		5.04		mg/Kg			11/16/21 23:05	1

Client Sample ID: SW-7

Date Collected: 11/09/21 10:30
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-12
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		11/10/21 08:48	11/12/21 20:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 20:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 20:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/10/21 08:48	11/12/21 20:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 20:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/10/21 08:48	11/12/21 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*11/10/21 08:48*	*11/12/21 20:03*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/10/21 08:48*	*11/12/21 20:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/21 16:07	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		11/11/21 14:19	11/12/21 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 17:41	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-7

Date Collected: 11/09/21 10:30
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*11/11/21 14:19*	*11/12/21 17:41*	*1*
o-Terphenyl	*130*		*70 - 130*	*11/11/21 14:19*	*11/12/21 17:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**617**		4.98		mg/Kg			11/16/21 23:20	1

Client Sample ID: SW-8

Date Collected: 11/09/21 10:32
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-13

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		11/10/21 08:48	11/12/21 20:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 20:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 20:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/21 08:48	11/12/21 20:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 20:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/21 08:48	11/12/21 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/10/21 08:48*	*11/12/21 20:24*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/10/21 08:48*	*11/12/21 20:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/21 16:07	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	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 18:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*11/11/21 14:19*	*11/12/21 18:02*	*1*
o-Terphenyl	*129*		*70 - 130*	*11/11/21 14:19*	*11/12/21 18:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**291**		4.95		mg/Kg			11/16/21 23:25	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-9

Date Collected: 11/09/21 10:43
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-14
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		11/10/21 08:48	11/12/21 20:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 20:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 20:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/10/21 08:48	11/12/21 20:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/10/21 08:48	11/12/21 20:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/10/21 08:48	11/12/21 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/10/21 08:48*	*11/12/21 20:45*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/21 08:48*	*11/12/21 20:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/21 16:07	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		11/11/21 14:19	11/12/21 18:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 18:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*11/11/21 14:19*	*11/12/21 18:23*	*1*
o-Terphenyl	*112*		*70 - 130*	*11/11/21 14:19*	*11/12/21 18:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.0**		5.00		mg/Kg			11/16/21 23:39	1

Client Sample ID: SW-10

Date Collected: 11/09/21 10:45
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-15
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		11/10/21 08:48	11/12/21 21:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 21:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 21:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/21 08:48	11/12/21 21:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/21 08:48	11/12/21 21:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/21 08:48	11/12/21 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*11/10/21 08:48*	*11/12/21 21:06*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*11/10/21 08:48*	*11/12/21 21:06*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-10

Date Collected: 11/09/21 10:45
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-15
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/21 16:07	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	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 18:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 18:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*11/11/21 14:19*	*11/12/21 18:43*	*1*
o-Terphenyl	*130*		*70 - 130*	*11/11/21 14:19*	*11/12/21 18:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**812**		4.97		mg/Kg			11/16/21 23:44	1

Client Sample ID: SW-11

Date Collected: 11/09/21 10:47
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-16
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		11/10/21 08:48	11/12/21 21:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/10/21 08:48	11/12/21 21:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/10/21 08:48	11/12/21 21:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/10/21 08:48	11/12/21 21:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/10/21 08:48	11/12/21 21:26	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/10/21 08:48	11/12/21 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/10/21 08:48*	*11/12/21 21:26*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/21 08:48*	*11/12/21 21:26*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/21 16:07	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	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 19:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 19:03	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-11
Date Collected: 11/09/21 10:47
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*11/11/21 14:19*	*11/12/21 19:03*	*1*
o-Terphenyl	*120*		*70 - 130*	*11/11/21 14:19*	*11/12/21 19:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.7**		4.99		mg/Kg			11/16/21 23:49	1

Client Sample ID: SW-12
Date Collected: 11/09/21 10:49
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/21 08:48	11/12/21 21:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/21 08:48	11/12/21 21:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/21 08:48	11/12/21 21:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/21 08:48	11/12/21 21:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/21 08:48	11/12/21 21:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/21 08:48	11/12/21 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/10/21 08:48*	*11/12/21 21:47*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/10/21 08:48*	*11/12/21 21:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/15/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/21 16:07	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		11/11/21 14:19	11/12/21 19:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 19:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*11/11/21 14:19*	*11/12/21 19:24*	*1*
o-Terphenyl	*122*		*70 - 130*	*11/11/21 14:19*	*11/12/21 19:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.96**		4.99		mg/Kg			11/16/21 23:54	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-13

Date Collected: 11/09/21 11:02
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-18

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		11/10/21 08:48	11/12/21 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 22:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/21 08:48	11/12/21 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 22:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/21 08:48	11/12/21 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/10/21 08:48*	*11/12/21 22:08*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*11/10/21 08:48*	*11/12/21 22:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**65.2**		49.9		mg/Kg			11/15/21 16:07	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		11/11/21 14:19	11/12/21 19:44	1
Diesel Range Organics (Over C10-C28)	**65.2**		49.9		mg/Kg		11/11/21 14:19	11/12/21 19:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*11/11/21 14:19*	*11/12/21 19:44*	*1*
o-Terphenyl	*122*		*70 - 130*	*11/11/21 14:19*	*11/12/21 19:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		4.95		mg/Kg			11/16/21 23:59	1

Client Sample ID: SW-14

Date Collected: 11/09/21 11:04
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/21 08:48	11/12/21 22:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/21 08:48	11/12/21 22:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/21 08:48	11/12/21 22:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/21 08:48	11/12/21 22:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/21 08:48	11/12/21 22:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/21 08:48	11/12/21 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/10/21 08:48*	*11/12/21 22:29*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/10/21 08:48*	*11/12/21 22:29*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-14
Date Collected: 11/09/21 11:04
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-19
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/15/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/21 16:07	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		11/11/21 14:19	11/12/21 20:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 20:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/21 14:19	11/12/21 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*11/11/21 14:19*	*11/12/21 20:04*	*1*
o-Terphenyl	*130*		*70 - 130*	*11/11/21 14:19*	*11/12/21 20:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**327**		5.00		mg/Kg			11/17/21 00:04	1

Client Sample ID: SW-15
Date Collected: 11/09/21 11:06
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-20
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		11/10/21 08:48	11/12/21 22:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 22:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 22:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/10/21 08:48	11/12/21 22:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 22:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/10/21 08:48	11/12/21 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/10/21 08:48*	*11/12/21 22:49*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/10/21 08:48*	*11/12/21 22:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/15/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/21 16:07	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	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 20:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 20:25	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-15

Date Collected: 11/09/21 11:06
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-20

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 14:19	11/12/21 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/11/21 14:19*	*11/12/21 20:25*	*1*
o-Terphenyl	*124*		*70 - 130*	*11/11/21 14:19*	*11/12/21 20:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		5.00		mg/Kg			11/17/21 00:09	1

Client Sample ID: SW-16

Date Collected: 11/09/21 11:07
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-21

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/21 11:30	11/12/21 01:04	1
Toluene	**0.00567**		0.00201		mg/Kg		11/10/21 11:30	11/12/21 01:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/21 11:30	11/12/21 01:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/21 11:30	11/12/21 01:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/21 11:30	11/12/21 01:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/21 11:30	11/12/21 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*11/10/21 11:30*	*11/12/21 01:04*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/10/21 11:30*	*11/12/21 01:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00567**		0.00402		mg/Kg			11/15/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			11/15/21 16:07	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	<49.7	U	49.7		mg/Kg		11/11/21 08:22	11/11/21 18:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/11/21 08:22	11/11/21 18:34	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/11/21 08:22	11/11/21 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*11/11/21 08:22*	*11/11/21 18:34*	*1*
o-Terphenyl	*126*		*70 - 130*	*11/11/21 08:22*	*11/11/21 18:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**832**		5.02		mg/Kg			11/17/21 03:01	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

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)
890-1554-1	BH-1 (5)	91	105
890-1554-1 MS	BH-1 (5)	95	100
890-1554-1 MSD	BH-1 (5)	94	98
890-1554-2	BH-2 (5)	94	106
890-1554-3	BH-3 (5)	96	108
890-1554-4	BH-4 (5)	91	105
890-1554-5	BH-5 (5)	92	105
890-1554-6	SW-1	92	105
890-1554-7	SW-2	99	103
890-1554-8	SW-3	95	104
890-1554-9	SW-4	96	103
890-1554-10	SW-5	90	99
890-1554-11	SW-6	93	107
890-1554-12	SW-7	91	111
890-1554-13	SW-8	102	109
890-1554-14	SW-9	95	106
890-1554-15	SW-10	89	117
890-1554-16	SW-11	90	106
890-1554-17	SW-12	92	102
890-1554-18	SW-13	92	116
890-1554-19	SW-14	94	108
890-1554-20	SW-15	94	109
890-1554-21	SW-16	117	109
890-1554-21 MS	SW-16	121	107
890-1554-21 MSD	SW-16	116	104
LCS 880-11849/1-A	Lab Control Sample	109	101
LCS 880-11886/1-A	Lab Control Sample	105	0 S1-
LCSD 880-11849/2-A	Lab Control Sample Dup	110	101
LCSD 880-11886/2-A	Lab Control Sample Dup	97	0 S1-
MB 880-11849/5-A	Method Blank	124	109
MB 880-11886/5-A	Method Blank	105	97
MB 880-11996/5-A	Method Blank	128	102

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)
890-1554-1	BH-1 (5)	121	134 S1+
890-1554-2	BH-2 (5)	121	138 S1+
890-1554-2 MS	BH-2 (5)	136 S1+	133 S1+
890-1554-2 MSD	BH-2 (5)	132 S1+	128
890-1554-3	BH-3 (5)	115	132 S1+
890-1554-4	BH-4 (5)	119	130
890-1554-5	BH-5 (5)	111	121

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-1554-1
Project/Site: Llama All Federal #1 SDG: 212c-md-02419 Task 2600

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-1554-6	SW-1	110	118								
890-1554-7	SW-2	119	135 S1+								
890-1554-8	SW-3	121	137 S1+								
890-1554-9	SW-4	109	121								
890-1554-10	SW-5	112	126								
890-1554-11	SW-6	124	139 S1+								
890-1554-12	SW-7	114	130								
890-1554-13	SW-8	117	129								
890-1554-14	SW-9	100	112								
890-1554-15	SW-10	118	130								
890-1554-16	SW-11	110	120								
890-1554-17	SW-12	109	122								
890-1554-18	SW-13	112	122								
890-1554-19	SW-14	116	130								
890-1554-20	SW-15	111	124								
890-1554-21	SW-16	113	126								
890-1557-A-1-D MS	Matrix Spike	117	118								
890-1557-A-1-E MSD	Matrix Spike Duplicate	118	119								
LCS 880-11991/2-A	Lab Control Sample	79	84								
LCS 880-12041/2-A	Lab Control Sample	100	98								
LCSD 880-11991/3-A	Lab Control Sample Dup	89	96								
LCSD 880-12041/3-A	Lab Control Sample Dup	108	111								
MB 880-11991/1-A	Method Blank	121	143 S1+								
MB 880-12041/1-A	Method Blank	111	132 S1+								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11849/5-A
Matrix: Solid
Analysis Batch: 11997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/21 11:30	11/12/21 00:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 11:30	11/12/21 00:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 11:30	11/12/21 00:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/21 11:30	11/12/21 00:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 11:30	11/12/21 00:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/21 11:30	11/12/21 00:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/10/21 11:30*	*11/12/21 00:35*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/10/21 11:30*	*11/12/21 00:35*	*1*

Lab Sample ID: LCS 880-11849/1-A
Matrix: Solid
Analysis Batch: 11997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09167		mg/Kg		92	70 - 130
Toluene	0.100	0.09611		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1023		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.1983		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09805		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-11849/2-A
Matrix: Solid
Analysis Batch: 11997

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11849

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08511		mg/Kg		85	70 - 130	7	35
Toluene	0.100	0.09320		mg/Kg		93	70 - 130	3	35
Ethylbenzene	0.100	0.09715		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1849		mg/Kg		92	70 - 130	7	35
o-Xylene	0.100	0.09046		mg/Kg		90	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-1554-21 MS
Matrix: Solid
Analysis Batch: 11997

Client Sample ID: SW-16
Prep Type: Total/NA
Prep Batch: 11849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.0998	0.08002		mg/Kg		79	70 - 130
Toluene	0.00567		0.0998	0.08407		mg/Kg		79	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

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

Lab Sample ID: 890-1554-21 MS
Matrix: Solid
Analysis Batch: 11997

Client Sample ID: SW-16
Prep Type: Total/NA
Prep Batch: 11849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00201	U	0.0998	0.08383		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1626		mg/Kg		80	70 - 130
o-Xylene	<0.00201	U	0.0998	0.08458		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-1554-21 MSD
Matrix: Solid
Analysis Batch: 11997

Client Sample ID: SW-16
Prep Type: Total/NA
Prep Batch: 11849

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.07429		mg/Kg		73	70 - 130	7	35
Toluene	0.00567		0.0998	0.08045		mg/Kg		75	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.0998	0.08205		mg/Kg		82	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1594		mg/Kg		79	70 - 130	2	35
o-Xylene	<0.00201	U	0.0998	0.08295		mg/Kg		82	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-11886/5-A
Matrix: Solid
Analysis Batch: 12118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/21 08:48	11/12/21 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 08:48	11/12/21 14:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/21 08:48	11/12/21 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/10/21 08:48*	*11/12/21 14:51*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/10/21 08:48*	*11/12/21 14:51*	*1*

Lab Sample ID: LCS 880-11886/1-A
Matrix: Solid
Analysis Batch: 12118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08054		mg/Kg		81	70 - 130
Toluene	0.100	0.07175		mg/Kg		72	70 - 130
Ethylbenzene	0.100	0.07428		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1427		mg/Kg		71	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

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

Lab Sample ID: LCS 880-11886/1-A
Matrix: Solid
Analysis Batch: 12118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11886

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			0.100	0.07487		mg/Kg		75	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*0*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-11886/2-A
Matrix: Solid
Analysis Batch: 12118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11886

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07372		mg/Kg		74	70 - 130	9	35
Toluene			0.100	0.08015		mg/Kg		80	70 - 130	11	35
Ethylbenzene			0.100	0.07734		mg/Kg		77	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1472		mg/Kg		74	70 - 130	3	35
o-Xylene			0.100	0.07728		mg/Kg		77	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*0*	*S1-*	*70 - 130*

Lab Sample ID: 890-1554-1 MS
Matrix: Solid
Analysis Batch: 12118

Client Sample ID: BH-1 (5)
Prep Type: Total/NA
Prep Batch: 11886

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.0996	0.05988	F1	mg/Kg		60	70 - 130		
Toluene	<0.00200	U F1	0.0996	0.04970	F1	mg/Kg		50	70 - 130		
Ethylbenzene	<0.00200	U F1	0.0996	0.04548	F1	mg/Kg		46	70 - 130		
m-Xylene & p-Xylene	<0.00400	U F1	0.199	0.08467	F1	mg/Kg		43	70 - 130		
o-Xylene	<0.00200	U F1	0.0996	0.04489	F1	mg/Kg		45	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-1554-1 MSD
Matrix: Solid
Analysis Batch: 12118

Client Sample ID: BH-1 (5)
Prep Type: Total/NA
Prep Batch: 11886

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0990	0.05327	F1	mg/Kg		54	70 - 130	12	35
Toluene	<0.00200	U F1	0.0990	0.04654	F1	mg/Kg		47	70 - 130	7	35
Ethylbenzene	<0.00200	U F1	0.0990	0.04500	F1	mg/Kg		45	70 - 130	1	35
m-Xylene & p-Xylene	<0.00400	U F1	0.198	0.08393	F1	mg/Kg		42	70 - 130	1	35
o-Xylene	<0.00200	U F1	0.0990	0.04456	F1	mg/Kg		45	70 - 130	1	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

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

Lab Sample ID: 890-1554-1 MSD
Matrix: Solid
Analysis Batch: 12118

Client Sample ID: BH-1 (5)
Prep Type: Total/NA
Prep Batch: 11886

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-11996/5-A
Matrix: Solid
Analysis Batch: 11997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11996

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/21 08:57	11/11/21 12:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/21 08:57	11/11/21 12:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/21 08:57	11/11/21 12:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/11/21 08:57	11/11/21 12:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/21 08:57	11/11/21 12:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/11/21 08:57	11/11/21 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	11/11/21 08:57	11/11/21 12:17	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/11/21 08:57	11/11/21 12:17	1

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

Lab Sample ID: MB 880-11991/1-A
Matrix: Solid
Analysis Batch: 11994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11991

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		11/11/21 08:22	11/11/21 09:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/21 08:22	11/11/21 09:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 08:22	11/11/21 09:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	11/11/21 08:22	11/11/21 09:47	1
o-Terphenyl	143	S1+	70 - 130	11/11/21 08:22	11/11/21 09:47	1

Lab Sample ID: LCS 880-11991/2-A
Matrix: Solid
Analysis Batch: 11994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1281		mg/Kg		128	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	84		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

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

Lab Sample ID: LCSD 880-11991/3-A
Matrix: Solid
Analysis Batch: 11994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11991

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1216		mg/Kg		122	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	943.3		mg/Kg		94	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 890-1557-A-1-D MS
Matrix: Solid
Analysis Batch: 11994

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 11991

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 F1	997	1600	F1	mg/Kg		160	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1097		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*118*		*70 - 130*

Lab Sample ID: 890-1557-A-1-E MSD
Matrix: Solid
Analysis Batch: 11994

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 11991

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 F1	998	1611	F1	mg/Kg		161	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1109		mg/Kg		107	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: MB 880-12041/1-A
Matrix: Solid
Analysis Batch: 12084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12041

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		11/11/21 14:19	11/12/21 11:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 11:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 14:19	11/12/21 11:51	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

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

Lab Sample ID: MB 880-12041/1-A
Matrix: Solid
Analysis Batch: 12084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12041

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	11/11/21 14:19	11/12/21 11:51	1
o-Terphenyl	132	S1+	70 - 130	11/11/21 14:19	11/12/21 11:51	1

Lab Sample ID: LCS 880-12041/2-A
Matrix: Solid
Analysis Batch: 12084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12041

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1111		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	950.9		mg/Kg		95	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-12041/3-A
Matrix: Solid
Analysis Batch: 12084

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 12041

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1186		mg/Kg		119	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1028		mg/Kg		103	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 890-1554-2 MS
Matrix: Solid
Analysis Batch: 12084

Client Sample ID: BH-2 (5)
Prep Type: Total/NA
Prep Batch: 12041

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 F1	997	1931	F1	mg/Kg		194	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1339	F1	mg/Kg		131	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

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

Lab Sample ID: 890-1554-2 MSD — **Client Sample ID: BH-2 (5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 12084 — **Prep Batch: 12041**

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 F1	998	1973	F1	mg/Kg		198	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1291		mg/Kg		126	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*132*	*S1+*	*70 - 130*
o-Terphenyl	*128*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12135/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 12210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/16/21 21:41	1

Lab Sample ID: LCS 880-12135/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 12210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	255.2		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-12135/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 12210

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.3		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 890-1554-1 MS — **Client Sample ID: BH-1 (5)**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 12210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	392	F1	250	680.9	F1	mg/Kg		116	90 - 110

Lab Sample ID: 890-1554-1 MSD — **Client Sample ID: BH-1 (5)**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 12210

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	392	F1	250	670.5	F1	mg/Kg		112	90 - 110	2	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1554-11 MS
Matrix: Solid
Analysis Batch: 12210

Client Sample ID: SW-6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	884		252	1144		mg/Kg		103	90 - 110

Lab Sample ID: 890-1554-11 MSD
Matrix: Solid
Analysis Batch: 12210

Client Sample ID: SW-6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	884		252	1148		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-12137/1-A
Matrix: Solid
Analysis Batch: 12212

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			11/17/21 00:34	1

Lab Sample ID: LCS 880-12137/2-A
Matrix: Solid
Analysis Batch: 12212

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.0		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-12137/3-A
Matrix: Solid
Analysis Batch: 12212

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	257.2		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-8220-A-2-G MS
Matrix: Solid
Analysis Batch: 12212

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	44.9		249	316.4		mg/Kg		109	90 - 110

Lab Sample ID: 880-8220-A-2-H MSD
Matrix: Solid
Analysis Batch: 12212

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	44.9		249	317.0		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

GC VOA

Prep Batch: 11849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-21	SW-16	Total/NA	Solid	5035	
MB 880-11849/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11849/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11849/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1554-21 MS	SW-16	Total/NA	Solid	5035	
890-1554-21 MSD	SW-16	Total/NA	Solid	5035	

Prep Batch: 11886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-1	BH-1 (5)	Total/NA	Solid	5035	
890-1554-2	BH-2 (5)	Total/NA	Solid	5035	
890-1554-3	BH-3 (5)	Total/NA	Solid	5035	
890-1554-4	BH-4 (5)	Total/NA	Solid	5035	
890-1554-5	BH-5 (5)	Total/NA	Solid	5035	
890-1554-6	SW-1	Total/NA	Solid	5035	
890-1554-7	SW-2	Total/NA	Solid	5035	
890-1554-8	SW-3	Total/NA	Solid	5035	
890-1554-9	SW-4	Total/NA	Solid	5035	
890-1554-10	SW-5	Total/NA	Solid	5035	
890-1554-11	SW-6	Total/NA	Solid	5035	
890-1554-12	SW-7	Total/NA	Solid	5035	
890-1554-13	SW-8	Total/NA	Solid	5035	
890-1554-14	SW-9	Total/NA	Solid	5035	
890-1554-15	SW-10	Total/NA	Solid	5035	
890-1554-16	SW-11	Total/NA	Solid	5035	
890-1554-17	SW-12	Total/NA	Solid	5035	
890-1554-18	SW-13	Total/NA	Solid	5035	
890-1554-19	SW-14	Total/NA	Solid	5035	
890-1554-20	SW-15	Total/NA	Solid	5035	
MB 880-11886/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11886/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11886/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1554-1 MS	BH-1 (5)	Total/NA	Solid	5035	
890-1554-1 MSD	BH-1 (5)	Total/NA	Solid	5035	

Prep Batch: 11996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11996/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 11997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-21	SW-16	Total/NA	Solid	8021B	11849
MB 880-11849/5-A	Method Blank	Total/NA	Solid	8021B	11849
MB 880-11996/5-A	Method Blank	Total/NA	Solid	8021B	11996
LCS 880-11849/1-A	Lab Control Sample	Total/NA	Solid	8021B	11849
LCSD 880-11849/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11849
890-1554-21 MS	SW-16	Total/NA	Solid	8021B	11849
890-1554-21 MSD	SW-16	Total/NA	Solid	8021B	11849

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

GC VOA

Analysis Batch: 12118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-1	BH-1 (5)	Total/NA	Solid	8021B	11886
890-1554-2	BH-2 (5)	Total/NA	Solid	8021B	11886
890-1554-3	BH-3 (5)	Total/NA	Solid	8021B	11886
890-1554-4	BH-4 (5)	Total/NA	Solid	8021B	11886
890-1554-5	BH-5 (5)	Total/NA	Solid	8021B	11886
890-1554-6	SW-1	Total/NA	Solid	8021B	11886
890-1554-7	SW-2	Total/NA	Solid	8021B	11886
890-1554-8	SW-3	Total/NA	Solid	8021B	11886
890-1554-9	SW-4	Total/NA	Solid	8021B	11886
890-1554-10	SW-5	Total/NA	Solid	8021B	11886
890-1554-11	SW-6	Total/NA	Solid	8021B	11886
890-1554-12	SW-7	Total/NA	Solid	8021B	11886
890-1554-13	SW-8	Total/NA	Solid	8021B	11886
890-1554-14	SW-9	Total/NA	Solid	8021B	11886
890-1554-15	SW-10	Total/NA	Solid	8021B	11886
890-1554-16	SW-11	Total/NA	Solid	8021B	11886
890-1554-17	SW-12	Total/NA	Solid	8021B	11886
890-1554-18	SW-13	Total/NA	Solid	8021B	11886
890-1554-19	SW-14	Total/NA	Solid	8021B	11886
890-1554-20	SW-15	Total/NA	Solid	8021B	11886
MB 880-11886/5-A	Method Blank	Total/NA	Solid	8021B	11886
LCS 880-11886/1-A	Lab Control Sample	Total/NA	Solid	8021B	11886
LCSD 880-11886/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11886
890-1554-1 MS	BH-1 (5)	Total/NA	Solid	8021B	11886
890-1554-1 MSD	BH-1 (5)	Total/NA	Solid	8021B	11886

Analysis Batch: 12338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-1	BH-1 (5)	Total/NA	Solid	Total BTEX	
890-1554-2	BH-2 (5)	Total/NA	Solid	Total BTEX	
890-1554-3	BH-3 (5)	Total/NA	Solid	Total BTEX	
890-1554-4	BH-4 (5)	Total/NA	Solid	Total BTEX	
890-1554-5	BH-5 (5)	Total/NA	Solid	Total BTEX	
890-1554-6	SW-1	Total/NA	Solid	Total BTEX	
890-1554-7	SW-2	Total/NA	Solid	Total BTEX	
890-1554-8	SW-3	Total/NA	Solid	Total BTEX	
890-1554-9	SW-4	Total/NA	Solid	Total BTEX	
890-1554-10	SW-5	Total/NA	Solid	Total BTEX	
890-1554-11	SW-6	Total/NA	Solid	Total BTEX	
890-1554-12	SW-7	Total/NA	Solid	Total BTEX	
890-1554-13	SW-8	Total/NA	Solid	Total BTEX	
890-1554-14	SW-9	Total/NA	Solid	Total BTEX	
890-1554-15	SW-10	Total/NA	Solid	Total BTEX	
890-1554-16	SW-11	Total/NA	Solid	Total BTEX	
890-1554-17	SW-12	Total/NA	Solid	Total BTEX	
890-1554-18	SW-13	Total/NA	Solid	Total BTEX	
890-1554-19	SW-14	Total/NA	Solid	Total BTEX	
890-1554-20	SW-15	Total/NA	Solid	Total BTEX	
890-1554-21	SW-16	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

GC Semi VOA

Prep Batch: 11991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-21	SW-16	Total/NA	Solid	8015NM Prep	
MB 880-11991/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11991/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11991/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1557-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1557-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-21	SW-16	Total/NA	Solid	8015B NM	11991
MB 880-11991/1-A	Method Blank	Total/NA	Solid	8015B NM	11991
LCS 880-11991/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11991
LCSD 880-11991/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11991
890-1557-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	11991
890-1557-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11991

Prep Batch: 12041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-1	BH-1 (5)	Total/NA	Solid	8015NM Prep	
890-1554-2	BH-2 (5)	Total/NA	Solid	8015NM Prep	
890-1554-3	BH-3 (5)	Total/NA	Solid	8015NM Prep	
890-1554-4	BH-4 (5)	Total/NA	Solid	8015NM Prep	
890-1554-5	BH-5 (5)	Total/NA	Solid	8015NM Prep	
890-1554-6	SW-1	Total/NA	Solid	8015NM Prep	
890-1554-7	SW-2	Total/NA	Solid	8015NM Prep	
890-1554-8	SW-3	Total/NA	Solid	8015NM Prep	
890-1554-9	SW-4	Total/NA	Solid	8015NM Prep	
890-1554-10	SW-5	Total/NA	Solid	8015NM Prep	
890-1554-11	SW-6	Total/NA	Solid	8015NM Prep	
890-1554-12	SW-7	Total/NA	Solid	8015NM Prep	
890-1554-13	SW-8	Total/NA	Solid	8015NM Prep	
890-1554-14	SW-9	Total/NA	Solid	8015NM Prep	
890-1554-15	SW-10	Total/NA	Solid	8015NM Prep	
890-1554-16	SW-11	Total/NA	Solid	8015NM Prep	
890-1554-17	SW-12	Total/NA	Solid	8015NM Prep	
890-1554-18	SW-13	Total/NA	Solid	8015NM Prep	
890-1554-19	SW-14	Total/NA	Solid	8015NM Prep	
890-1554-20	SW-15	Total/NA	Solid	8015NM Prep	
MB 880-12041/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12041/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1554-2 MS	BH-2 (5)	Total/NA	Solid	8015NM Prep	
890-1554-2 MSD	BH-2 (5)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-1	BH-1 (5)	Total/NA	Solid	8015 NM	
890-1554-2	BH-2 (5)	Total/NA	Solid	8015 NM	
890-1554-3	BH-3 (5)	Total/NA	Solid	8015 NM	
890-1554-4	BH-4 (5)	Total/NA	Solid	8015 NM	
890-1554-5	BH-5 (5)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

GC Semi VOA (Continued)

Analysis Batch: 12045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-6	SW-1	Total/NA	Solid	8015 NM	
890-1554-7	SW-2	Total/NA	Solid	8015 NM	
890-1554-8	SW-3	Total/NA	Solid	8015 NM	
890-1554-9	SW-4	Total/NA	Solid	8015 NM	
890-1554-10	SW-5	Total/NA	Solid	8015 NM	
890-1554-11	SW-6	Total/NA	Solid	8015 NM	
890-1554-12	SW-7	Total/NA	Solid	8015 NM	
890-1554-13	SW-8	Total/NA	Solid	8015 NM	
890-1554-14	SW-9	Total/NA	Solid	8015 NM	
890-1554-15	SW-10	Total/NA	Solid	8015 NM	
890-1554-16	SW-11	Total/NA	Solid	8015 NM	
890-1554-17	SW-12	Total/NA	Solid	8015 NM	
890-1554-18	SW-13	Total/NA	Solid	8015 NM	
890-1554-19	SW-14	Total/NA	Solid	8015 NM	
890-1554-20	SW-15	Total/NA	Solid	8015 NM	
890-1554-21	SW-16	Total/NA	Solid	8015 NM	

Analysis Batch: 12084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-1	BH-1 (5)	Total/NA	Solid	8015B NM	12041
890-1554-2	BH-2 (5)	Total/NA	Solid	8015B NM	12041
890-1554-3	BH-3 (5)	Total/NA	Solid	8015B NM	12041
890-1554-4	BH-4 (5)	Total/NA	Solid	8015B NM	12041
890-1554-5	BH-5 (5)	Total/NA	Solid	8015B NM	12041
890-1554-6	SW-1	Total/NA	Solid	8015B NM	12041
890-1554-7	SW-2	Total/NA	Solid	8015B NM	12041
890-1554-8	SW-3	Total/NA	Solid	8015B NM	12041
890-1554-9	SW-4	Total/NA	Solid	8015B NM	12041
890-1554-10	SW-5	Total/NA	Solid	8015B NM	12041
890-1554-11	SW-6	Total/NA	Solid	8015B NM	12041
890-1554-12	SW-7	Total/NA	Solid	8015B NM	12041
890-1554-13	SW-8	Total/NA	Solid	8015B NM	12041
890-1554-14	SW-9	Total/NA	Solid	8015B NM	12041
890-1554-15	SW-10	Total/NA	Solid	8015B NM	12041
890-1554-16	SW-11	Total/NA	Solid	8015B NM	12041
890-1554-17	SW-12	Total/NA	Solid	8015B NM	12041
890-1554-18	SW-13	Total/NA	Solid	8015B NM	12041
890-1554-19	SW-14	Total/NA	Solid	8015B NM	12041
890-1554-20	SW-15	Total/NA	Solid	8015B NM	12041
MB 880-12041/1-A	Method Blank	Total/NA	Solid	8015B NM	12041
LCS 880-12041/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12041
LCSD 880-12041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12041
890-1554-2 MS	BH-2 (5)	Total/NA	Solid	8015B NM	12041
890-1554-2 MSD	BH-2 (5)	Total/NA	Solid	8015B NM	12041

HPLC/IC

Leach Batch: 12135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-1	BH-1 (5)	Soluble	Solid	DI Leach	
890-1554-2	BH-2 (5)	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

HPLC/IC (Continued)

Leach Batch: 12135 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-3	BH-3 (5)	Soluble	Solid	DI Leach	
890-1554-4	BH-4 (5)	Soluble	Solid	DI Leach	
890-1554-5	BH-5 (5)	Soluble	Solid	DI Leach	
890-1554-6	SW-1	Soluble	Solid	DI Leach	
890-1554-7	SW-2	Soluble	Solid	DI Leach	
890-1554-8	SW-3	Soluble	Solid	DI Leach	
890-1554-9	SW-4	Soluble	Solid	DI Leach	
890-1554-10	SW-5	Soluble	Solid	DI Leach	
890-1554-11	SW-6	Soluble	Solid	DI Leach	
890-1554-12	SW-7	Soluble	Solid	DI Leach	
890-1554-13	SW-8	Soluble	Solid	DI Leach	
890-1554-14	SW-9	Soluble	Solid	DI Leach	
890-1554-15	SW-10	Soluble	Solid	DI Leach	
890-1554-16	SW-11	Soluble	Solid	DI Leach	
890-1554-17	SW-12	Soluble	Solid	DI Leach	
890-1554-18	SW-13	Soluble	Solid	DI Leach	
890-1554-19	SW-14	Soluble	Solid	DI Leach	
890-1554-20	SW-15	Soluble	Solid	DI Leach	
MB 880-12135/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12135/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12135/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1554-1 MS	BH-1 (5)	Soluble	Solid	DI Leach	
890-1554-1 MSD	BH-1 (5)	Soluble	Solid	DI Leach	
890-1554-11 MS	SW-6	Soluble	Solid	DI Leach	
890-1554-11 MSD	SW-6	Soluble	Solid	DI Leach	

Leach Batch: 12137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-21	SW-16	Soluble	Solid	DI Leach	
MB 880-12137/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12137/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12137/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8220-A-2-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8220-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 12210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-1	BH-1 (5)	Soluble	Solid	300.0	12135
890-1554-2	BH-2 (5)	Soluble	Solid	300.0	12135
890-1554-3	BH-3 (5)	Soluble	Solid	300.0	12135
890-1554-4	BH-4 (5)	Soluble	Solid	300.0	12135
890-1554-5	BH-5 (5)	Soluble	Solid	300.0	12135
890-1554-6	SW-1	Soluble	Solid	300.0	12135
890-1554-7	SW-2	Soluble	Solid	300.0	12135
890-1554-8	SW-3	Soluble	Solid	300.0	12135
890-1554-9	SW-4	Soluble	Solid	300.0	12135
890-1554-10	SW-5	Soluble	Solid	300.0	12135
890-1554-11	SW-6	Soluble	Solid	300.0	12135
890-1554-12	SW-7	Soluble	Solid	300.0	12135
890-1554-13	SW-8	Soluble	Solid	300.0	12135
890-1554-14	SW-9	Soluble	Solid	300.0	12135

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

HPLC/IC (Continued)

Analysis Batch: 12210 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-15	SW-10	Soluble	Solid	300.0	12135
890-1554-16	SW-11	Soluble	Solid	300.0	12135
890-1554-17	SW-12	Soluble	Solid	300.0	12135
890-1554-18	SW-13	Soluble	Solid	300.0	12135
890-1554-19	SW-14	Soluble	Solid	300.0	12135
890-1554-20	SW-15	Soluble	Solid	300.0	12135
MB 880-12135/1-A	Method Blank	Soluble	Solid	300.0	12135
LCS 880-12135/2-A	Lab Control Sample	Soluble	Solid	300.0	12135
LCSD 880-12135/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12135
890-1554-1 MS	BH-1 (5)	Soluble	Solid	300.0	12135
890-1554-1 MSD	BH-1 (5)	Soluble	Solid	300.0	12135
890-1554-11 MS	SW-6	Soluble	Solid	300.0	12135
890-1554-11 MSD	SW-6	Soluble	Solid	300.0	12135

Analysis Batch: 12212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1554-21	SW-16	Soluble	Solid	300.0	12137
MB 880-12137/1-A	Method Blank	Soluble	Solid	300.0	12137
LCS 880-12137/2-A	Lab Control Sample	Soluble	Solid	300.0	12137
LCSD 880-12137/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12137
880-8220-A-2-G MS	Matrix Spike	Soluble	Solid	300.0	12137
880-8220-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	12137

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: BH-1 (5)
Date Collected: 11/09/21 10:05
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 15:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 15:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 21:56	CH	XEN MID

Client Sample ID: BH-2 (5)
Date Collected: 11/09/21 10:22
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 15:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 15:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 12:52	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 22:11	CH	XEN MID

Client Sample ID: BH-3 (5)
Date Collected: 11/09/21 10:41
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 15:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 15:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 22:16	CH	XEN MID

Client Sample ID: BH-4 (5)
Date Collected: 11/09/21 10:42
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 16:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: BH-4 (5)
Date Collected: 11/09/21 10:42
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	12045	11/15/21 15:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 22:21	CH	XEN MID

Client Sample ID: BH-5 (5)
Date Collected: 11/09/21 11:00
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 16:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 15:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 22:26	CH	XEN MID

Client Sample ID: SW-1
Date Collected: 11/09/21 10:07
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 16:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 15:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 22:41	CH	XEN MID

Client Sample ID: SW-2
Date Collected: 11/09/21 10:09
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 17:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 15:37	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-2
Date Collected: 11/09/21 10:09
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 22:45	CH	XEN MID

Client Sample ID: SW-3
Date Collected: 11/09/21 10:12
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 17:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 22:50	CH	XEN MID

Client Sample ID: SW-4
Date Collected: 11/09/21 10:15
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 17:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 16:18	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 22:55	CH	XEN MID

Client Sample ID: SW-5
Date Collected: 11/09/21 10:24
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 18:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 23:00	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-6
Date Collected: 11/09/21 10:27
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 19:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 17:21	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 23:05	CH	XEN MID

Client Sample ID: SW-7
Date Collected: 11/09/21 10:30
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 20:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 17:41	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 23:20	CH	XEN MID

Client Sample ID: SW-8
Date Collected: 11/09/21 10:32
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 20:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 18:02	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 23:25	CH	XEN MID

Client Sample ID: SW-9
Date Collected: 11/09/21 10:43
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 20:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-9
Date Collected: 11/09/21 10:43
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 18:23	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 23:39	CH	XEN MID

Client Sample ID: SW-10
Date Collected: 11/09/21 10:45
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 21:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 18:43	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 23:44	CH	XEN MID

Client Sample ID: SW-11
Date Collected: 11/09/21 10:47
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 21:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 23:49	CH	XEN MID

Client Sample ID: SW-12
Date Collected: 11/09/21 10:49
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 21:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 19:24	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-12
Date Collected: 11/09/21 10:49
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 23:54	CH	XEN MID

Client Sample ID: SW-13
Date Collected: 11/09/21 11:02
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 22:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/16/21 23:59	CH	XEN MID

Client Sample ID: SW-14
Date Collected: 11/09/21 11:04
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 22:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 20:04	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/17/21 00:04	CH	XEN MID

Client Sample ID: SW-15
Date Collected: 11/09/21 11:06
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11886	11/10/21 08:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12118	11/12/21 22:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			12041	11/11/21 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	12084	11/12/21 20:25	AJ	XEN MID
Soluble	Leach	DI Leach			12135	11/12/21 12:45	CH	XEN MID
Soluble	Analysis	300.0		1	12210	11/17/21 00:09	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Client Sample ID: SW-16
Date Collected: 11/09/21 11:07
Date Received: 11/09/21 16:09

Lab Sample ID: 890-1554-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11849	11/10/21 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	11997	11/12/21 01:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/15/21 16:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			11991	11/11/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1	11994	11/11/21 18:34	AJ	XEN MID
Soluble	Leach	DI Leach			12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		1	12212	11/17/21 03:01	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 890-1554-1
Project/Site: Llama All Federal #1 SDG: 212c-md-02419 Task 2600

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	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

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: Llama All Federal #1

Job ID: 890-1554-1
SDG: 212c-md-02419 Task 2600

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1554-1	BH-1 (5)	Solid	11/09/21 10:05	11/09/21 16:09	5
890-1554-2	BH-2 (5)	Solid	11/09/21 10:22	11/09/21 16:09	5
890-1554-3	BH-3 (5)	Solid	11/09/21 10:41	11/09/21 16:09	5
890-1554-4	BH-4 (5)	Solid	11/09/21 10:42	11/09/21 16:09	5
890-1554-5	BH-5 (5)	Solid	11/09/21 11:00	11/09/21 16:09	5
890-1554-6	SW-1	Solid	11/09/21 10:07	11/09/21 16:09	
890-1554-7	SW-2	Solid	11/09/21 10:09	11/09/21 16:09	
890-1554-8	SW-3	Solid	11/09/21 10:12	11/09/21 16:09	
890-1554-9	SW-4	Solid	11/09/21 10:15	11/09/21 16:09	
890-1554-10	SW-5	Solid	11/09/21 10:24	11/09/21 16:09	
890-1554-11	SW-6	Solid	11/09/21 10:27	11/09/21 16:09	
890-1554-12	SW-7	Solid	11/09/21 10:30	11/09/21 16:09	
890-1554-13	SW-8	Solid	11/09/21 10:32	11/09/21 16:09	
890-1554-14	SW-9	Solid	11/09/21 10:43	11/09/21 16:09	
890-1554-15	SW-10	Solid	11/09/21 10:45	11/09/21 16:09	
890-1554-16	SW-11	Solid	11/09/21 10:47	11/09/21 16:09	
890-1554-17	SW-12	Solid	11/09/21 10:49	11/09/21 16:09	
890-1554-18	SW-13	Solid	11/09/21 11:02	11/09/21 16:09	
890-1554-19	SW-14	Solid	11/09/21 11:04	11/09/21 16:09	
890-1554-20	SW-15	Solid	11/09/21 11:06	11/09/21 16:09	
890-1554-21	SW-16	Solid	11/09/21 11:07	11/09/21 16:09	

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

Client Name: EOG Resources	Site Manager: Paula Tocora Alonso
Project Name: Llama All Federal #1	
Project Location: (county, state) Eddy County, New Mexico	Project #: 212C-MD-02419 Task 2600
Invoice to: EOG - James Kennedy	
Receiving Laboratory: Eurofins Xenco	Sampler Signature: Ezequiel Moreno
Comments:	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	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	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-1 (5')	11/9/2021	1005		X			X				X		X												X							
	BH-2 (5')	11/9/2021	1022		X			X				X		X												X							
	BH-3 (5')	11/9/2021	1041		X			X				X		X												X							
	BH-4 (5')	11/9/2021	1042		X			X				X		X												X							
	BH-5 (5')	11/9/2021	1100		X			X				X		X												X							
	SW-1	11/9/2021	1007		X			X				X		X												X							
	SW-2	11/9/2021	1009		X			X				X		X												X							
	SW-3	11/9/2021	1012		X			X				X		X												X							
	SW-4	11/9/2021	1015		X			X				X		X												X							
	SW-5	11/9/2021	1024		X			X				X		X												X							

	Date:	Time:		Date:	Time:
Relinquished by:	11/9/21	1608	Received by:	11.9.21	1609
Relinquished by:			Received by:		
Relinquished by:			Received by:		

LAB USE ONLY

Sample Temperature
17.8
17.6
CF

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 #:

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: EOG Resources	**Site Manager:** Paula Tocora Alonso
Project Name: Llama All Federal #1	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02419 Task 2600
Invoice to: EOG - James Kennedy	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Ezequiel Moreno
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	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	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	SW-6	11/9/2021	1027		X				X					X		X												X							
	SW-7	11/9/2021	1030		X				X					X		X												X							
	SW-8	11/9/2021	1032		X				X					X		X												X							
	SW-9	11/9/2021	1043		X				X					X		X												X							
	SW-10	11/9/2021	1045		X				X					X		X												X							
	SW-11	11/9/2021	1047		X				X					X		X												X							
	SW-12	11/9/2021	1049		X				X					X		X												X							
	SW-13	11/9/2021	1102		X				X					X		X												X							
	SW-14	11/9/2021	1104		X				X					X		X												X							
	SW-15	11/9/2021	1106		X				X					X		X												X							

Relinquished by: Ezequiel Moreno	Date: 11/9/21	Time: 1608	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 11·9·21 Time: 1609

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 #: _____

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Analysis Request of Chain of Custody Record

Page 3 of 3

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax
(432) 682-3946

Client Name: EOG Resources	**Site Manager:** Paula Tocora Alonso
Project Name: Llama All Federal #1	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02419 Task 2600
Invoice to: EOG - James Kennedy	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Ezequiel Moreno
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	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	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	SW-16	11/9/2021	1107		X				X					X		X												X							

Relinquished by:	Date: 11/9/21	Time: 1609	Received by: Date: 11.9.21 Time: 1609
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

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 #: _____

ORIGINAL COPY

Eurofins Xenco, Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-501 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 3
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1554-1
Address: 1211 W Florida Ave	Due Date Requested: 11/15/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Llama All Federal #1	Project #: 88000013			
Site	SSOW#:			

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH, GRO-DRO-MRO	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH-1 (5) (890-1554-1)	11/9/21	10 05 Mountain		Solid			X	X	X	X	X	1	
BH-2 (5) (890-1554-2)	11/9/21	10 22 Mountain		Solid			X	X	X	X	X	1	
BH-3 (5) (890-1554-3)	11/9/21	10 41 Mountain		Solid			X	X	X	X	X	1	
BH-4 (5) (890-1554-4)	11/9/21	10 42 Mountain		Solid			X	X	X	X	X	1	
BH-5 (5) (890-1554-5)	11/9/21	11 00 Mountain		Solid			X	X	X	X	X	1	
SW-1 (890-1554-6)	11/9/21	10 07 Mountain		Solid			X	X	X	X	X	1	
SW-2 (890-1554-7)	11/9/21	10 09 Mountain		Solid			X	X	X	X	X	1	
SW-3 (890-1554-8)	11/9/21	10 12 Mountain		Solid			X	X	X	X	X	1	
SW-4 (890-1554-9)	11/9/21	10 15 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by: Joe Cruz 11.10.21			Kramer	11.10.21	
	Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.2/1.3

Ver: 06/08/2021

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-501 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 2 of 3
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1554-1
Address: 1211 W Florida Ave	Due Date Requested: 11/15/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Llama All Federal #1	Project #: 88000013			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note.
			Preservation Code:										
SW-5 (890-1554-10)	11/9/21	10 24 Mountain		Solid			X	X	X	X	X	1	
SW-6 (890-1554-11)	11/9/21	10 27 Mountain		Solid			X	X	X	X	X	1	
SW-7 (890-1554-12)	11/9/21	10 30 Mountain		Solid			X	X	X	X	X	1	
SW-8 (890-1554-13)	11/9/21	10 32 Mountain		Solid			X	X	X	X	X	1	
SW-9 (890-1554-14)	11/9/21	10 43 Mountain		Solid			X	X	X	X	X	1	
SW-10 (890-1554-15)	11/9/21	10 45 Mountain		Solid			X	X	X	X	X	1	
SW-11 (890-1554-16)	11/9/21	10 47 Mountain		Solid			X	X	X	X	X	1	
SW-12 (890-1554-17)	11/9/21	10 49 Mountain		Solid			X	X	X	X	X	1	
SW-13 (890-1554-18)	11/9/21	11 02 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-501 3
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 3 of 3
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1554-1
Address: 1211 W Florida Ave	Due Date Requested: 11/15/2021			
City: Midland	TAT Requested (days)			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Llama All Federal #1	Project #: 88000013			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW-14 (890-1554-19)	11/9/21	11 04 Mountain		Solid			X	X	X	X	X		
SW-15 (890-1554-20)	11/9/21	11 06 Mountain		Solid			X	X	X	X	X		
SW-16 (890-1554-21)	11/9/21	11 07 Mountain		Solid			X	X	X	X	X		

Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:
Relinquished by: Clue Cap 11.10.21	Date/Time:	Company	Received by: Kramer	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1554-1
SDG Number: 212c-md-02419 Task 2600

Login Number: 1554
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1554-1
SDG Number: 212c-md-02419 Task 2600

Login Number: 1554
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 11/10/21 12:57 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	1.2/1.3
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	

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

COMMENTS

Action 232162

COMMENTS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 232162
	Action Type: [C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
csmith	Returned to OCD Review: Diagram was incomplete however data was in the report.	7/11/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 232162

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 232162
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/11/2023