

SITE INFORMATION

Report Type: Closure 1RP-4975

General Site Information:

Site:	Hound 30 Federal Water Line					
Company:	EOG Resources, Inc.					
Section, Township and Range	Unit L	Sec. 30	T 25S	R 34E		
Lease Number:	API No. 30-025-43574					
County:	Lea County					
GPS:	32.0998° N			103.5171° W		
Surface Owner:	Federal					
Mineral Owner:						
Directions:	From the intersection of HWY 128 and CR 1, travel south on CR 1 for 10.4 miles, turn east onto lease road for 7.5 miles to Y in the road, take a left at the Y and continue for 2.8 miles, turn left and continue for 0.9 miles to location on the west side of the lease road.					

Release Data:

Date Released:	2/18/2018
Type Release:	Produced Water
Source of Contamination:	Riser
Fluid Released:	75 bbls
Fluids Recovered:	10 bbls

Official Communication:

Name:	Zane Kurtz	Ike Tavaréz
Company:	EOG Resources	Tetra Tech
Address:	5509 Champions Drive	4000 N. Big Spring
		Ste 401
City:	Midland, TX 79706	Midland, Texas
Phone number:	(432) 425-2023	(432) 687-8110
Fax:		
Email:	zane_kurtz@eogresources.com	Ike.Tavaréz@tetrattech.com

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	125'-150'
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:		0

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5,000



June 4, 2018

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

Re: Work Plan for the EOG Resources, Hound 30 Federal Water Line, Unit L, Section 30, Township 25 South, Range 34 East, Lea County, New Mexico. 1RP-4975.

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources, Inc. (EOG) to investigate and assess a release that occurred at the Hound 30 Federal Water Line, Unit L, Section 30, Township 25 South, Range 34 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.0998°, W 103.5171°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on February 18, 2018, and released approximately seventy-five (75) barrels of produced water due to a failed gasket at the water transfer line riser. Approximately ten (10) barrels of produced water was recovered. The release occurred along the EOG pipeline right-of-way impacting an area measuring approximately 45' x 90, 20' x 90', and 20' x 165'. The initial C-141 form is included in Appendix A.

Groundwater

No wells are listed within Section 30 in the New Mexico Office of the State Engineers database, the USGS National Water Information System, or the Geology and Groundwater Conditions in Southern Lea County, NM (Report 6). However, the USGS National Water Information System lists a well in Section 29, approximately 1.45 miles southeast of the site, with a reported depth to water of 128' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is between 125' and 150' below surface. The groundwater data is shown in Appendix B.

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment

On February 27, 2018, Tetra Tech personnel were onsite to evaluate and sample the release area with backhoe. Six (6) sample trenches (T-1 through T-6) were installed in the spill footprint to total depths ranging from 10.0' and 14.0' below surface. The samples were analyzed for chlorides by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The trench locations are shown in Figure 3.

Referring to Table 1, the sampling results showed a shallow chloride impact to the soils. The area of trench (T-1) showed a chloride high of 195 mg/kg at 0-1' below surface, which further declined with depth. The areas of trenches (T-2, T-3, T-4, T-5 and T-6) showed elevated chloride concentrations in the shallow soils (0-1') of 4,160 mg/kg, 3,960 mg/kg, 643 mg/kg, 7,220 mg/kg, and 2,230 mg/kg, respectively. The chloride concentrations in these areas declined with depth to below the 600 mg/kg threshold at 2.0' below surface. Additionally, none of the deeper samples collected showed any significant chloride concentrations to the soils.

Remediation Activities

On May 23-25, 2018 Tetra Tech personnel were onsite to sample and to supervise the excavation areas of T-2, T-3, T-4, T-5, and T-6 highlighted (green) on Table 1. The areas of trenches (T-2, T-3, T-4, T-5, and T-6) were excavated to depths approximately 1.5' to 2.0' below surface. The samples were analyzed for TPH method 8015 extended, BTEX method 8021B, and chlorides by EPA method 300.0. The sampling results are summarized in Table 1. The excavated locations are shown in Figure 4.

Referring to Table 1, none of the collected samples exceeded the RRALs for TPH, benzene, or Total BTEX. A total of five (5) bottom hole samples were collected, along with sidewall samples. The areas of (Bottom Hole-1, Bottom Hole-2, Bottom Hole-3, Bottom Hole-4, and Bottom Hole-5) and sidewall samples showed TPH concentrations ranging from <14.9 mg/kg to <15.0 mg/kg. The Chloride concentrations in these areas showed concentrations of 21.5 mg/kg, 7.40 mg/kg, 12.6 mg/kg, 61.8 mg/kg, and 35.7mg/kg all below RRALs. All of the sidewall samples collected didn't exceed the threshold of 600 ppm and showed concentrations ranging from <4.95 mg/kg to 69.5 mg/kg. The excavated areas were backfilled with clean material to surface grade. All of the excavated material was transported offsite for proper disposal.



Conclusion

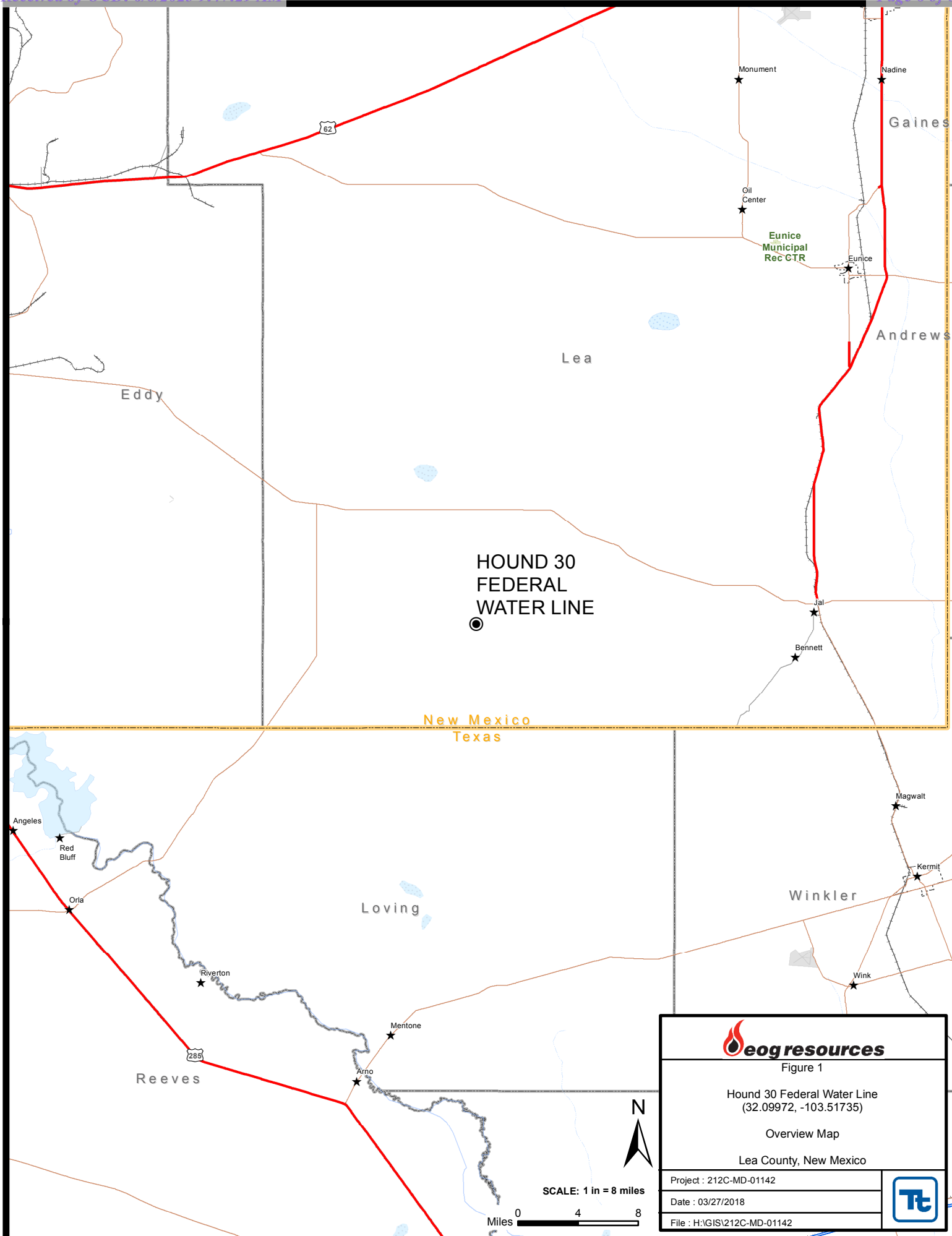
Based on the soil assessment and remediation work performed at the site, EOG Resources requests closure of this spill. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities for this site, please call me at (432) 682-4559.

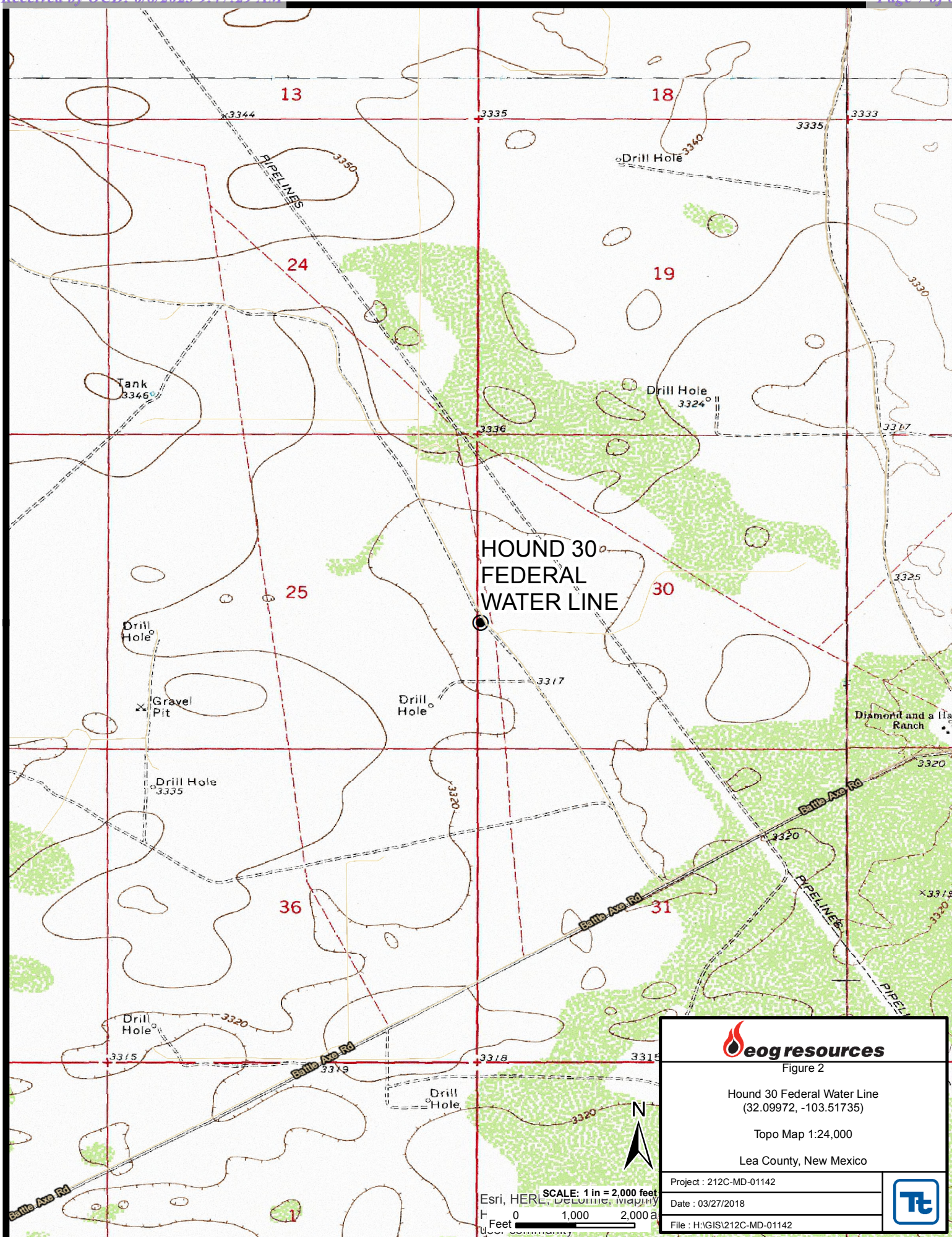
Respectfully submitted,
TETRA TECH

A handwritten signature in blue ink that reads 'Clair Gonzales'.

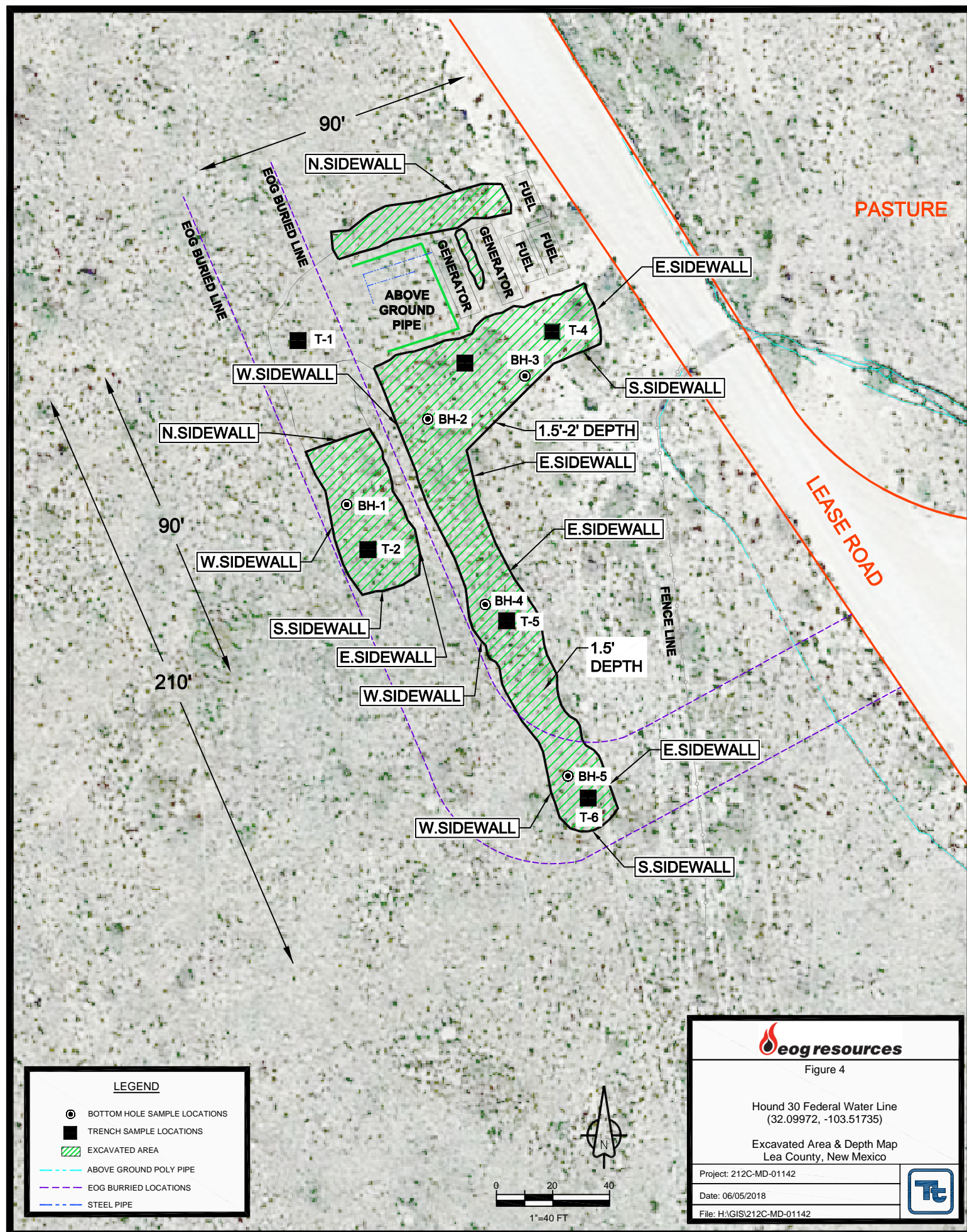
Clair Gonzales,
Project Manager

Figures









Tables

Table 1
EOG Resources
Hound 30 Federal Water Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH mg/kg				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
T-1	2/27/2018	0-1		X		-	-	-	-	-	-	-	-	-	195
	"	2		X		-	-	-	-	-	-	-	-	-	<4.95
	"	4		X		-	-	-	-	-	-	-	-	-	170
	"	6		X		-	-	-	-	-	-	-	-	-	<4.99
	"	8		X		-	-	-	-	-	-	-	-	-	<4.97
	"	10		X		-	-	-	-	-	-	-	-	-	<4.95
	"	12		X		-	-	-	-	-	-	-	-	-	<5.00
	"	14		X		-	-	-	-	-	-	-	-	-	<4.95
T-2	2/27/2018	0-1			X	-	-	-	-	-	-	-	-	-	4,160
	"	2		X		-	-	-	-	-	-	-	-	-	90.4
	"	4		X		-	-	-	-	-	-	-	-	-	11.2
	"	6		X		-	-	-	-	-	-	-	-	-	<4.99
	"	8		X		-	-	-	-	-	-	-	-	-	56.8
	"	10		X		-	-	-	-	-	-	-	-	-	106
	"	12		X		-	-	-	-	-	-	-	-	-	77.7
	"	14		X		-	-	-	-	-	-	-	-	-	<4.99
BottomHole#1	5/23/2018	0-3"	1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	21.5
North Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<4.95
South Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.99
East Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00197	<0.00197	<0.00197	<0.00197	<0.00197	6.84
West Sidewall	"	-				<14.9	<14.9	<14.9	<14.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	23.2
T-3	2/27/2018	0-1			X	-	-	-	-	-	-	-	-	-	3,960
	"	2		X		-	-	-	-	-	-	-	-	-	46.0
	"	4		X		-	-	-	-	-	-	-	-	-	<4.91
	"	6		X		-	-	-	-	-	-	-	-	-	272
	"	8		X		-	-	-	-	-	-	-	-	-	38.1
	"	10		X		-	-	-	-	-	-	-	-	-	51.9
BottomHole #2	5/23/2018	0-3"	1.5-2.0	X		<14.9	<14.9	<14.9	<14.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	7.40
North Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	26.0
East Sidwall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	14.3
West Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	19.9
T-4	2/27/2018	0-1			X	-	-	-	-	-	-	-	-	-	643
	"	2		X		-	-	-	-	-	-	-	-	-	113
	"	4		X		-	-	-	-	-	-	-	-	-	<4.92
	"	6		X		-	-	-	-	-	-	-	-	-	<5.00
	"	8		X		-	-	-	-	-	-	-	-	-	106
	"	10		X		-	-	-	-	-	-	-	-	-	67.4
BottomHole#3	5/23/2018	0-3"	1.5-2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	12.6
South Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	12.4
East Sidwall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00197	<0.00197	<0.00197	<0.00197	<0.00197	10.1
T-5	2/27/2018	0-1			X	-	-	-	-	-	-	-	-	-	7,220
	"	2		X		-	-	-	-	-	-	-	-	-	227
	"	4		X		-	-	-	-	-	-	-	-	-	26.8
	"	6		X		-	-	-	-	-	-	-	-	-	<4.91
	"	8		X		-	-	-	-	-	-	-	-	-	12.4
	"	10		X		-	-	-	-	-	-	-	-	-	70.8
	"	12		X		-	-	-	-	-	-	-	-	-	27.7
	"	14		X		-	-	-	-	-	-	-	-	-	22.0
BottomHole #4	5/23/2018	0-3"	1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	61.8
East Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00197	<0.00197	<0.00197	<0.00197	<0.00197	49.5
West Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00197	<0.00197	<0.00197	<0.00197	<0.00197	12.6
T-6	2/27/2018	0-1			X	-	-	-	-	-	-	-	-	-	2,230
	"	2		X		-	-	-	-	-	-	-	-	-	210
	"	4		X		-	-	-	-	-	-	-	-	-	<4.99
	"	6		X		-	-	-	-	-	-	-	-	-	<5.00
	"	8		X		-	-	-	-	-	-	-	-	-	<5.00
	"	10		X		-	-	-	-	-	-	-	-	-	<4.97
	"	12		X		-	-	-	-	-	-	-	-	-	75.9
	"	14		X		-	-	-	-	-	-	-	-	-	80.5
BottomHole #5	5/23/2018	0-3"	1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00197	<0.00197	<0.00197	<0.00197	<0.00197	35.7
South Sidewall	"	-				<14.9	<14.9	<14.9	<14.9	<0.00197	<0.00197	<0.00197	<0.00197	<0.00197	16.5
East Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	69.5
West Sidewall	"	-				<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	36.0

BEB Below Excavation Bottom
(-) Not Analyzed
 Excavated Depths

Photos

EOG Resources, Inc.
Hound 30 Federal Water Line
Lea County, New Mexico



TETRA TECH



View North - Area of T-1



View East – Area of T-2

EOG Resources, Inc.
Hound 30 Federal Water Line
Lea County, New Mexico



TETRA TECH



View East – Area of T-3



View South – Area of T-4

EOG Resources, Inc.
Hound 30 Federal Water Line
Lea County, New Mexico



View Northeast – Area of T-5



View Southwest – Area of T-6

EOG Resources, Inc.
Hound 30 Federal Water Line
Lea County, New Mexico



View North – Area of Bottom Hole-1 (T-2)



View Northeast – Area Bottom Hole 2&3 (T-3, and T-4)

EOG Resources, Inc.
Hound 30 Federal Water Line
Lea County, New Mexico



View East – Area of Bottom Hole-2 North Sidewall Area



View North – Area of Bottom Hole-4 (T-5)

EOG Resources, Inc.
Hound 30 Federal Water Line
Lea County, New Mexico



View South – Area of BottomHole-5 (T-6)



View East – Area of BottomHole-2 (Pipelines in area)

Appendix A

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company - EOG Resources, Inc.	Contact Zane Kurtz
Address 5509 Champions Drive, Midland, TX 79706	Telephone No. 432-425-2023
Facility Name Hound 30 Fed Water Line	Facility Type Water Transfer Line
Surface Owner BLM	Mineral Owner Federal API No. 30-025-43574

LOCATION OF RELEASE

Unit Letter L	Section 30	Township 25S	Range 34E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32.0998 Longitude -103.5171

NATURE OF RELEASE

Type of Release Equipment Failure - oil Produced Water	Volume of Release 75 bbl	Volume Recovered 10 bbl
Source of Release Riser on a water transfer line	Date and Hour of Occurrence 2-18-2018 0630	Date and Hour of Discovery 2-19-2018 0800
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* NA		

RECEIVED

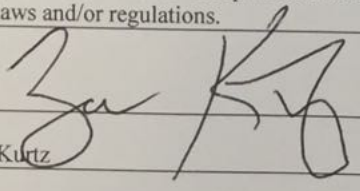
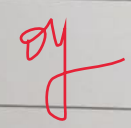
By Olivia Yu at 3:29 pm, Feb 22, 2018

Describe Cause of Problem and Remedial Action Taken.*

Equipment failure on a water transfer line. A bad gasket between the poly line and the AVK valve. The water transfer line was isolated and the gasket was released. One call was placed and an initial assessment will be performed to collect soil samples and see the extent of the spill.

Describe Area Affected and Cleanup Action Taken.*

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Zane Kurtz	Approved by Environmental Specialist: 	
Title: Sr. Environmental Rep.	Approval Date: 2/22/2018	Expiration Date:
E-mail Address: zane_kurtz@eogresources.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 2-21-2018 Phone: 423-425-2023		

* Attach Additional Sheets If Necessary

1RP-4975

nOY1805356223

pOY1805356652

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report


Name of Company EOG Resources, Inc.	Contact Jamon Hohensee
Address 5509 Champions Drive, Midland, TX 79706	Telephone No. (432) 425-2023
Facility Name Hound 30 Fed Water Line	Facility Type Water Transfer Line
Surface Owner: Federal BLM	Mineral Owner Federal
API No. 30-025-43574	

LOCATION OF RELEASE

Unit Letter L	Section 30	Township 25S	Range 34E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude N 32.0998° Longitude W 103.5171°

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 75 bbl	Volume Recovered 10 bbl
Source of Release: Riser on a water transfer line	Date and Hour of Occurrence 2-18-2018 0630	Date and Hour of Discovery 2-19-18 0800
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Equipment failure on a water transfer line. A bad gasket between the poly line and the AVK valve. The water transfer line was isolated and the gasket was released. Tetra Tech inspected site.		
Describe Area Affected and Cleanup Action Taken.* Tetra Tech inspected site and collected samples. The contaminated soil was removed and hauled away for proper disposal. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 		OIL CONSERVATION DIVISION Approved by District Supervisor:
Printed Name: Ike Tavarez		
Title: Project Manager	Approval Date:	Expiration Date:
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval:	
Date:	Phone: (432) 682-4559	Attached <input type="checkbox"/>

* 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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.

State of New Mexico
Oil Conservation Division

Page 4

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: James F Kennedy Title: Environmental ScientistSignature: James F Kennedy Date: 06/04/2018email: james_kennedy@eogresources.com Telephone: 432-258-4346**OCD Only**

Received by: _____ Date: _____

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: James F Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 06/04/2018

email: james_kennedy@eogresources.com Telephone: 432-258-4346

OCD Only

Received by: Date:

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

Closure Approved by: Ashley Maxwell Date: 06/22/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
EOG - Hound 30 Federal Water Line
Lea County, New Mexico

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

24 South			34 East		
6	5	4	3	2	1
81		475			
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South			35 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	97	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

25 South			33 East		
6	5	4	3	172	2
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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

25 South			35 East		
6	5	4	3	108	2
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			33 East		
6	5	4	3	175	2
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			34 East		
6	160	5	4	3	2
7	175	8	9	10	11
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(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	DepthWell	DepthWater	Water Column
C 02299		CUB	LE	4	4	2	24	25S	34E	649417	3554478* <div></div>	350	300	50
C 02314			LE	2	4	2	15	25S	34E	646170	3556243* <div></div>	175	135	40
C 02315			LE	2	4	2	15	25S	34E	646170	3556243* <div></div>	175	135	40
C 02316			LE	3	4	3	29	25S	34E	642003	3551967* <div></div>	100	50	50
C 02317			LE	3	4	3	29	25S	34E	642003	3551967* <div></div>	100	50	50
C 02401			LE	2	2	1	01	25S	34E	648534	3559896* <div></div>	275	260	15
Average Depth to Water:													155 feet	
Minimum Depth:													50 feet	
Maximum Depth:													300 feet	

Record Count: 6

PLSS Search:

Township: 25S Range: 34E

*UTM location was derived from PLSS - see Help



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- [Please see news on new formats](#)
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

site_no list =

- 320523103294401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320523103294401 25S.34E.29.343322

Available data for this site

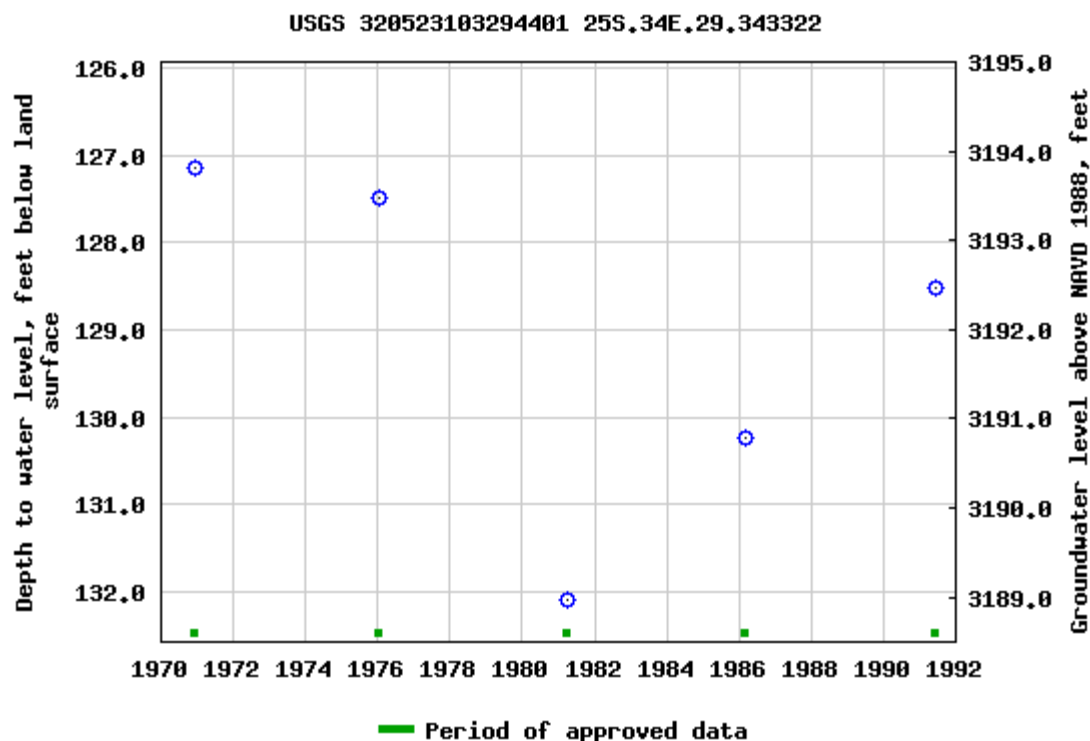
Groundwater: Field measurements

GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°05'23", Longitude 103°29'44" NAD27
Land-surface elevation 3,321 feet above NAVD88
The depth of the well is 165 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-03-12 17:25:40 EDT

4.89 1.27 nadww01

Appendix C

Analytical Report 578097

for
Tetra Tech- Midland

Project Manager: Ike Tavaréz

Hound 30 Federal Water Line

12-MAR-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)



12-MAR-18

Project Manager: **Ike Tavaréz**

Tetra Tech- Midland

4000 N. Big Spring Suite 401

Midland, TX 79705

Reference: XENCO Report No(s): **578097**

Hound 30 Federal Water Line

Project Address: Lea County NM

Ike Tavaréz:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 578097. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 578097 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', written over a horizontal line.

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 578097

Tetra Tech- Midland, Midland, TX

Hound 30 Federal Water Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-1 (0-1')	S	02-27-18 00:00		578097-001
T-1 (2')	S	02-27-18 00:00		578097-002
T-1 (4')	S	02-27-18 00:00		578097-003
T-1 (6')	S	02-27-18 00:00		578097-004
T-1 (8')	S	02-27-18 00:00		578097-005
T-1 (10')	S	02-27-18 00:00		578097-006
T-1 (12')	S	02-27-18 00:00		578097-007
T-1 (14')	S	02-27-18 00:00		578097-008
T-2 (0-1')	S	02-27-18 00:00		578097-009
T-2 (2')	S	02-27-18 00:00		578097-010
T-2 (4')	S	02-27-18 00:00		578097-011
T-2 (6')	S	02-27-18 00:00		578097-012
T-2 (8')	S	02-27-18 00:00		578097-013
T-2 (10')	S	02-27-18 00:00		578097-014
T-2 (12')	S	02-27-18 00:00		578097-015
T-3 (14')	S	02-27-18 00:00		578097-016
T-3 0-1')	S	02-27-18 00:00		578097-017
T-3 (2')	S	02-27-18 00:00		578097-018
T-3 (4')	S	02-27-18 00:00		578097-019
T-3 (6')	S	02-27-18 00:00		578097-020
T-3 (8')	S	02-27-18 00:00		578097-021
T-3 (10')	S	02-27-18 00:00		578097-022
T-4 (0-1')	S	02-27-18 00:00		578097-023
T-4 (2')	S	02-27-18 00:00		578097-024
T-4 (4')	S	02-27-18 00:00		578097-025
T-4 (6')	S	02-27-18 00:00		578097-026
T-4 (8')	S	02-27-18 00:00		578097-027
T-4 (10')	S	02-27-18 00:00		578097-028
T-5 (0-1')	S	02-27-18 00:00		578097-029
T-5 (2')	S	02-27-18 00:00		578097-030
T-5 (4')	S	02-27-18 00:00		578097-031
T-5 (6')	S	02-27-18 00:00		578097-032
T-5 (8')	S	02-27-18 00:00		578097-033
T-5 (10')	S	02-27-18 00:00		578097-034
T-5 (12')	S	02-27-18 00:00		578097-035
T-5 (14')	S	02-27-18 00:00		578097-036
T-6 (0-1')	S	02-27-18 00:00		578097-037
T-6 (2')	S	02-27-18 00:00		578097-038
T-6 (4')	S	02-27-18 00:00		578097-039
T-6 (6')	S	02-27-18 00:00		578097-040
T-6 (8')	S	02-27-18 00:00		578097-041
T-6 (10')	S	02-27-18 00:00		578097-042
T-6 (12')	S	02-27-18 00:00		578097-043



Sample Cross Reference 578097



Tetra Tech- Midland, Midland, TX

Hound 30 Federal Water Line

T-6 14')

S

02-27-18 00:00

578097-044

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Hound 30 Federal Water Line**

Project ID:

Work Order Number(s): 578097

Report Date: 12-MAR-18

Date Received: 03/02/2018

Sample receipt non conformances and comments:None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3043411 Inorganic Anions by EPA 300/300.1

Lab Sample ID 578097-031 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 578097-021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040.

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



Certificate of Analysis Summary 578097

Tetra Tech- Midland, Midland, TX

Project Name: Hound 30 Federal Water Line



Project Id:

Contact: Ike Tavarez

Project Location: Lea County NM

Date Received in Lab: Fri Mar-02-18 04:03 pm

Report Date: 12-MAR-18

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	578097-001	578097-002	578097-003	578097-004	578097-005	578097-006
	<i>Field Id:</i>	T-1 (0-1')	T-1 (2')	T-1 (4')	T-1 (6')	T-1 (8')	T-1 (10')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00
	<i>Analyzed:</i>	Mar-09-18 12:53	Mar-09-18 13:09	Mar-09-18 13:14	Mar-09-18 13:20	Mar-09-18 13:25	Mar-09-18 13:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		195 4.91	<4.92 4.92	170 4.95	<4.99 4.99	<4.97 4.97	<4.95 4.95

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

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 578097

Tetra Tech- Midland, Midland, TX

Project Name: Hound 30 Federal Water Line



Project Id:

Contact: Ike Tavarez

Project Location: Lea County NM

Date Received in Lab: Fri Mar-02-18 04:03 pm

Report Date: 12-MAR-18

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	578097-007	578097-008	578097-009	578097-010	578097-011	578097-012
	<i>Field Id:</i>	T-1 (12')	T-1 (14')	T-2 (0-1')	T-2 (2')	T-2 (4')	T-2 (6')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00
	<i>Analyzed:</i>	Mar-09-18 13:56	Mar-09-18 14:02	Mar-09-18 14:07	Mar-09-18 14:12	Mar-09-18 14:18	Mar-09-18 14:46
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<5.00 5.00	<4.95 4.95	4160 25.0	90.4 4.95	11.2 4.99	<4.99 4.99

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 578097

Tetra Tech- Midland, Midland, TX

Project Name: Hound 30 Federal Water Line



Project Id:

Contact: Ike Tavarez

Project Location: Lea County NM

Date Received in Lab: Fri Mar-02-18 04:03 pm

Report Date: 12-MAR-18

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	578097-013	578097-014	578097-015	578097-016	578097-017	578097-018
	<i>Field Id:</i>	T-2 (8')	T-2 (10')	T-2 (12')	T-3 (14')	T-3 0-1')	T-3 (2')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 09:00
	<i>Analyzed:</i>	Mar-09-18 15:01	Mar-09-18 15:07	Mar-09-18 15:12	Mar-09-18 15:17	Mar-09-18 15:23	Mar-09-18 15:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		56.8 5.00	106 4.99	77.7 4.95	<4.99 4.99	3960 24.9	46.0 4.95

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 578097

Tetra Tech- Midland, Midland, TX

Project Name: Hound 30 Federal Water Line



Project Id:

Contact: Ike Tavarez

Project Location: Lea County NM

Date Received in Lab: Fri Mar-02-18 04:03 pm

Report Date: 12-MAR-18

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	578097-019	578097-020	578097-021	578097-022	578097-023	578097-024
	<i>Field Id:</i>	T-3 (4')	T-3 (6')	T-3 (8')	T-3 (10')	T-4 (0-1')	T-4 (2')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Mar-09-18 09:00	Mar-09-18 09:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00
	<i>Analyzed:</i>	Mar-09-18 15:33	Mar-09-18 15:39	Mar-09-18 20:13	Mar-09-18 20:29	Mar-09-18 20:34	Mar-09-18 20:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<4.91 4.91	272 4.95	38.1 4.98	51.9 4.94	643 4.98	113 4.98

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

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 578097

Tetra Tech- Midland, Midland, TX

Project Name: Hound 30 Federal Water Line



Project Id:

Contact: Ike Tavarez

Project Location: Lea County NM

Date Received in Lab: Fri Mar-02-18 04:03 pm

Report Date: 12-MAR-18

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	578097-025	578097-026	578097-027	578097-028	578097-029	578097-030
	<i>Field Id:</i>	T-4 (4')	T-4 (6')	T-4 (8')	T-4 (10')	T-5 (0-1')	T-5 (2')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00
	<i>Analyzed:</i>	Mar-09-18 20:45	Mar-09-18 21:01	Mar-09-18 21:06	Mar-09-18 21:11	Mar-09-18 21:17	Mar-09-18 21:22
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<4.92 4.92	<5.00 5.00	106 4.94	67.4 4.96	7220 49.9	227 4.96

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 578097

Tetra Tech- Midland, Midland, TX

Project Name: Hound 30 Federal Water Line



Project Id:

Contact: Ike Tavarez

Project Location: Lea County NM

Date Received in Lab: Fri Mar-02-18 04:03 pm

Report Date: 12-MAR-18

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	578097-031	578097-032	578097-033	578097-034	578097-035	578097-036
	<i>Field Id:</i>	T-5 (4')	T-5 (6')	T-5 (8')	T-5 (10')	T-5 (12')	T-5 (14')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00
	<i>Analyzed:</i>	Mar-09-18 21:27	Mar-09-18 21:43	Mar-09-18 21:49	Mar-09-18 22:04	Mar-09-18 22:10	Mar-09-18 22:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		26.8 4.97	<4.91 4.91	12.4 4.97	70.8 4.98	27.7 5.00	22.0 4.97

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

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 578097

Tetra Tech- Midland, Midland, TX

Project Name: Hound 30 Federal Water Line



Project Id:

Contact: Ike Tavarez

Project Location: Lea County NM

Date Received in Lab: Fri Mar-02-18 04:03 pm

Report Date: 12-MAR-18

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	578097-037	578097-038	578097-039	578097-040	578097-041	578097-042
	<i>Field Id:</i>	T-6 (0-1')	T-6 (2')	T-6 (4')	T-6 (6')	T-6 (8')	T-6 (10')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00	Feb-27-18 00:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 10:00	Mar-09-18 12:00	Mar-09-18 12:00
	<i>Analyzed:</i>	Mar-09-18 22:20	Mar-09-18 22:26	Mar-09-18 22:31	Mar-09-18 22:36	Mar-09-18 23:08	Mar-10-18 00:22
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2230 25.0	210 4.99	<4.99 4.99	<5.00 5.00	<5.00 5.00	<4.97 4.97

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

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 578097

Tetra Tech- Midland, Midland, TX

Project Name: Hound 30 Federal Water Line



Project Id:

Contact: Ike Tavaréz

Project Location: Lea County NM

Date Received in Lab: Fri Mar-02-18 04:03 pm

Report Date: 12-MAR-18

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	578097-043	578097-044				
	Field Id:	T-6 (12')	T-6 14')				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Feb-27-18 00:00	Feb-27-18 00:00				
Inorganic Anions by EPA 300/300.1	Extracted:	Mar-09-18 12:00	Mar-09-18 12:00				
	Analyzed:	Mar-09-18 23:24	Mar-09-18 23:29				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		75.9 4.97	80.5 4.93				

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Kelsey Brooks
Project Manager



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



BS / BSD Recoveries



Project Name: Hound 30 Federal Water Line

Work Order #: 578097

Project ID:

Analyst: OJS

Date Prepared: 03/09/2018

Date Analyzed: 03/09/2018

Lab Batch ID: 3043405

Sample: 7640570-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	240	96	250	233	93	3	90-110	20	

Analyst: OJS

Date Prepared: 03/09/2018

Date Analyzed: 03/09/2018

Lab Batch ID: 3043411

Sample: 7640572-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	258	103	250	248	99	4	90-110	20	

Analyst: OJS

Date Prepared: 03/09/2018

Date Analyzed: 03/09/2018

Lab Batch ID: 3043417

Sample: 7640573-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	256	102	250	257	103	0	90-110	20	

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

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Hound 30 Federal Water Line

Work Order #: 578097

Project ID:

Lab Batch ID: 3043405

QC- Sample ID: 578097-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/09/2018

Date Prepared: 03/09/2018

Analyst: OJS

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	195	246	447	102	246	444	101	1	90-110	20	

Lab Batch ID: 3043405

QC- Sample ID: 578097-011 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/09/2018

Date Prepared: 03/09/2018

Analyst: OJS

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	11.2	250	286	110	250	284	109	1	90-110	20	

Lab Batch ID: 3043411

QC- Sample ID: 578097-021 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/09/2018

Date Prepared: 03/09/2018

Analyst: OJS

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	38.1	249	317	112	249	317	112	0	90-110	20	X

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

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Hound 30 Federal Water Line

Work Order #: 578097

Project ID:

Lab Batch ID: 3043411

QC- Sample ID: 578097-031 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/09/2018

Date Prepared: 03/09/2018

Analyst: OJS

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	26.8	249	302	111	249	306	112	1	90-110	20	X

Lab Batch ID: 3043417

QC- Sample ID: 578097-041 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/09/2018

Date Prepared: 03/09/2018

Analyst: OJS

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	274	110	250	273	109	0	90-110	20	

Lab Batch ID: 3043417

QC- Sample ID: 578097-042 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/10/2018

Date Prepared: 03/09/2018

Analyst: OJS

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<4.97	249	268	108	249	269	108	0	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

578097

Page 2 of 5

Client Name:

EOG

Site Manager:

Ike Tavaraz

Project Name:

Hound 30 Federal Water Line

Project Location:

(county, state) Lea County, New Mexico

Project #:

Pending

Invoice to:

Tetra Tech, Inc.

Receiving Laboratory:

Xenco Midland Tx

Sampler Signature:

Mike Carmona

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

SAMPLING

YEAR: 2017

DATE

TIME

WATER
SOIL

PRESERVATIVE METHOD

HCL
HNO₃
ICE
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

Received by:

Mike Carmona

Date: 3-2-18

Time:

Received by:

Mike Carmona

Date: 3/2/18

Time: 403

LAB USE ONLY

REMARKS:

☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

Received by:

Date:

Time:

Received by:

Date:

Time:

Sample Temperature

Temp: 5.3

CF: (0-6; -0.2°C)

Corrected Temp: 5.1

IR ID: R-8

ORIGINAL COPY

(Circle) HAND DELIVERED

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

578097

Client Name: EOG		Site Manager: Ike Tavaréz	
Project Name: Hound 30 Federal Water Line			
Project Location: (county, state) Lea County, New Mexico		Project #:	
Invoice to: Tetra Tech, Inc.		Sampler Signature: Mike Carmona	
Receiving Laboratory: Xenco Midland Tx		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		YEAR: 2017	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			None
	T-3 (8')		2/27/2018		X						1 N	
	T-3 (10')		2/27/2018		X						1 N	
	T-4 (0-1')		2/27/2018		X						1 N	
	T-4 (2')		2/27/2018		X						1 N	
	T-4 (4')		2/27/2018		X						1 N	
	T-4 (6')		2/27/2018		X						1 N	
	T-4 (8')		2/27/2018		X						1 N	
	T-4 (10')		2/27/2018		X						1 N	
	T-5 (0-1')		2/27/2018		X						1 N	
	T-5 (2')		2/27/2018		X						1 N	

Relinquished by: <i>Mike</i>	Date: 3-2-19	Time:	Received by: <i>Mike</i>	Date: 3/2/18	Time: 403
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ORIGINAL COPY

ANALYSIS REQUEST
(Circle or Specify Method No.)

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	

REMARKS:
☒ STANDARD

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

(Circle) HAND

Temp: 5.3 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 5.1

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

578097

Client Name: EOG		Site Manager: Ike Tavaréz											
Project Name: Hound 30 Federal Water Line													
Project Location: (county, state) Lea County, New Mexico		Project #:											
Invoice to: Tetra Tech, Inc.													
Receiving Laboratory: Xenco Midland Tx		Sampler Signature: Mike Carmona											
Comments:													
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)		
		YEAR: 2017	DATE		TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
		T-5 (4')	2/27/2018		X				X			1	N
		T-5 (6')	2/27/2018		X				X			1	N
		T-5 (8')	2/27/2018		X				X			1	N
		T-5 (10')	2/27/2018		X				X			1	N
		T-5 (12')	2/27/2018		X				X			1	N
		T-5 (14')	2/27/2018		X				X			1	N
		T-6 (0-1')	2/27/2018		X				X			1	N
		T-6 (2')	2/27/2018		X				X			1	N
		T-6 (4')	2/27/2018		X				X			1	N
		T-6 (6')	2/27/2018		X				X			1	N
		Retrieved by: Mike Carmona		Date: 3-2-18		Received by: [Signature]		Date: 3/2/18		Time: 405			
Retrieved by:		Date:		Received by:		Date:		Time:					
Retrieved by:		Date:		Received by:		Date:		Time:					

LAB USE ONLY	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		

REMARKS:
☒ STANDARD
☐ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

Temp: 5.3 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C) 5.1
Corrected Temp:

Temp: 5.3 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C) 5.1
Corrected Temp:



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 03/02/2018 04:03:00 PM

Work Order #: 578097

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist**Comments**

#1 *Temperature of cooler(s)?	5.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6* Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Jessica Kramer

Date: 03/04/2018

Checklist reviewed by:

Kelsey Brooks

Date: 03/05/2018

Analytical Report 587245

for Tetra Tech- Midland

Project Manager: Ike Tavaréz

EOG-Hound 30 Federal Water Line

212C-MD-01142

30-MAY-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-25), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)

Xenco-San Antonio (EPA Lab Code: TNi02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



30-MAY-18

Project Manager: **Ike Tavaréz**

Tetra Tech- Midland

4000 N. Big Spring Suite 401

Midland, TX 79705

Reference: XENCO Report No(s): **587245**

EOG-Hound 30 Federal Water Line

Project Address: Lea County , New Mexico

Ike Tavaréz:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 587245. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 587245 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 587245



Tetra Tech- Midland, Midland, TX

EOG-Hound 30 Federal Water Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole #1 (1.5' BEB)	S	05-23-18 00:00		587245-001
Bottom Hole #1 (1.5' BEB) North Sidewall	S	05-23-18 00:00		587245-002
Bottom Hole #1 (1.5' BEB) South Sidewall	S	05-23-18 00:00		587245-003
Bottom Hole #1 (1.5' BEB) East Sidewall	S	05-23-18 00:00		587245-004
Bottom Hole #1 (1.5' BEB) West Sidewall	S	05-23-18 00:00		587245-005
Bottom Hole #2 (1.5'-2' BEB)	S	05-24-18 00:00		587245-006
Bottom Hole #2 (1.5'-2' BEB) North Sidewall	S	05-24-18 00:00		587245-007
Bottom Hole #2 (1.5'-2' BEB) East Sidewall	S	05-24-18 00:00		587245-008
Bottom Hole #2 (1.5'-2' BEB) West Sidewall	S	05-24-18 00:00		587245-009
Bottom Hole #3 (1.5'-2' BEB)	S	05-24-18 00:00		587245-010
Bottom Hole #3 (1.5'-2' BEB) South Sidewall	S	05-23-18 00:00		587245-011
Bottom Hole #3 (1.5'-2' BEB) East Sidewall	S	05-23-18 00:00		587245-012
Bottom Hole #4 (1.5' BEB)	S	05-23-18 00:00		587245-013
Bottom Hole #4 (1.5' BEB) East Sidewall	S	05-23-18 00:00		587245-014
Bottom Hole #4 (1.5' BEB) West Sidewall	S	05-23-18 00:00		587245-015
Bottom Hole #5 (1.5' BEB)	S	05-23-18 00:00		587245-016
Bottom Hole #5 (1.5' BEB) South Sidewall	S	05-23-18 00:00		587245-017
Bottom Hole #5 1 (1.5' BEB) East Sidewall	S	05-23-18 00:00		587245-018
Bottom Hole #5 (1.5' BEB) West Sidewall	S	05-23-18 00:00		587245-019



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: EOG-Hound 30 Federal Water Line

Project ID: 212C-MD-01142
Work Order Number(s): 587245

Report Date: 30-MAY-18
Date Received: 05/25/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3051599 BTEX by EPA 8021B

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



Certificate of Analysis Summary 587245

Tetra Tech- Midland, Midland, TX

Project Name: EOG-Hound 30 Federal Water Line



Project Id: 212C-MD-01142
Contact: Ike Tavaréz
Project Location: Lea County , New Mexico

Date Received in Lab: Fri May-25-18 09:26 am
Report Date: 30-MAY-18
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	587245-001	587245-002	587245-003	587245-004	587245-005	587245-006
	<i>Field Id:</i>	Bottom Hole #1 (1.5' BEB)	Bottom Hole #1 (1.5' BEB)	Bottom Hole #1 (1.5' BEB)	Bottom Hole #1 (1.5' BEB)	Bottom Hole #1 (1.5' BEB)	Bottom Hole #2 (1.5-2' BEB)
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	May-23-18 00:00	May-23-18 00:00	May-23-18 00:00	May-23-18 00:00	May-23-18 00:00	May-24-18 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00
	<i>Analyzed:</i>	May-28-18 04:18	May-28-18 04:37	May-28-18 04:55	May-28-18 05:14	May-28-18 05:32	May-28-18 05:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00197 0.00197	<0.00198 0.00198	<0.00198 0.00198
Toluene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00197 0.00197	<0.00198 0.00198	<0.00198 0.00198
Ethylbenzene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00197 0.00197	<0.00198 0.00198	<0.00198 0.00198
m,p-Xylenes		<0.00397 0.00397	<0.00395 0.00395	<0.00399 0.00399	<0.00394 0.00394	<0.00397 0.00397	<0.00396 0.00396
o-Xylene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00197 0.00197	<0.00198 0.00198	<0.00198 0.00198
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00197 0.00197	<0.00198 0.00198	<0.00198 0.00198
Total BTEX		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00197 0.00197	<0.00198 0.00198	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	May-29-18 10:00	May-29-18 10:00	May-29-18 10:00	May-29-18 10:00	May-29-18 10:00	May-29-18 10:00
	<i>Analyzed:</i>	May-29-18 15:37	May-29-18 16:52	May-29-18 17:40	May-29-18 17:45	May-29-18 17:51	May-29-18 17:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		21.5 4.97	<4.95 4.95	<4.99 4.99	6.84 4.95	23.2 5.00	7.40 4.96
TPH By SW8015 Mod	<i>Extracted:</i>	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00
	<i>Analyzed:</i>	May-27-18 07:01	May-27-18 08:38	May-27-18 09:19	May-27-18 10:01	May-27-18 10:51	May-27-18 11:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9

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

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 587245

Tetra Tech- Midland, Midland, TX

Project Name: EOG-Hound 30 Federal Water Line



Project Id: 212C-MD-01142
Contact: Ike Tavaréz
Project Location: Lea County , New Mexico

Date Received in Lab: Fri May-25-18 09:26 am
Report Date: 30-MAY-18
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	587245-007	587245-008	587245-009	587245-010	587245-011	587245-012
	<i>Field Id:</i>	Bottom Hole #2 (1.5'-2' BEB)	Bottom Hole #2 (1.5'-2' BEB)	Bottom Hole #2 (1.5'-2' BEB)	Bottom Hole #3 (1.5'-2' BEB)	Bottom Hole #3 (1.5'-2' BEB)	Bottom Hole #3 (1.5'-2' BEB)
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	May-24-18 00:00	May-24-18 00:00	May-24-18 00:00	May-24-18 00:00	May-23-18 00:00	May-23-18 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00
	<i>Analyzed:</i>	May-28-18 06:07	May-28-18 06:24	May-28-18 06:42	May-28-18 07:01	May-28-18 07:56	May-28-18 09:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00197 0.00197
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00197 0.00197
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00197 0.00197
m,p-Xylenes		<0.00399 0.00399	<0.00400 0.00400	<0.00398 0.00398	<0.00396 0.00396	<0.00396 0.00396	<0.00394 0.00394
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00197 0.00197
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00197 0.00197
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00197 0.00197
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	May-29-18 10:00	May-29-18 10:00	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00
	<i>Analyzed:</i>	May-29-18 18:01	May-29-18 18:07	May-29-18 18:38	May-29-18 18:54	May-29-18 19:00	May-29-18 19:05
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		26.0 5.00	14.3 4.97	19.9 4.96	12.6 5.00	12.4 5.00	10.1 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00
	<i>Analyzed:</i>	May-27-18 14:25	May-27-18 19:43	May-27-18 20:42	May-27-18 21:41	May-27-18 23:51	May-28-18 00:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 587245

Tetra Tech- Midland, Midland, TX

Project Name: EOG-Hound 30 Federal Water Line



Project Id: 212C-MD-01142
Contact: Ike Tavaréz
Project Location: Lea County , New Mexico

Date Received in Lab: Fri May-25-18 09:26 am
Report Date: 30-MAY-18
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	587245-013	587245-014	587245-015	587245-016	587245-017	587245-018
	<i>Field Id:</i>	Bottom Hole #4 (1.5' BEB)	Bottom Hole #4 (1.5' BEB)	Bottom Hole #4 (1.5' BEB)	Bottom Hole #5 (1.5' BEB)	Bottom Hole #5 (1.5' BEB)	Bottom Hole #5 1 (1.5' BEB)
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	May-23-18 00:00	May-23-18 00:00	May-23-18 00:00	May-23-18 00:00	May-23-18 00:00	May-23-18 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00	May-26-18 17:00
	<i>Analyzed:</i>	May-28-18 09:29	May-28-18 09:48	May-28-18 10:06	May-28-18 10:25	May-28-18 10:44	May-28-18 11:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00196 0.00196	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00198 0.00198
Toluene		<0.00196 0.00196	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00198 0.00198
Ethylbenzene		<0.00196 0.00196	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00198 0.00198
m,p-Xylenes		<0.00393 0.00393	<0.00394 0.00394	<0.00394 0.00394	<0.00394 0.00394	<0.00394 0.00394	<0.00396 0.00396
o-Xylene		<0.00196 0.00196	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00198 0.00198
Total Xylenes		<0.00196 0.00196	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00198 0.00198
Total BTEX		<0.00196 0.00196	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00197 0.00197	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00
	<i>Analyzed:</i>	May-29-18 19:10	May-29-18 19:26	May-29-18 19:32	May-29-18 19:37	May-29-18 19:42	May-29-18 19:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		61.8 4.95	49.5 4.99	12.6 5.00	35.7 5.00	16.5 4.94	69.5 4.98
TPH By SW8015 Mod	<i>Extracted:</i>	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00	May-26-18 14:00
	<i>Analyzed:</i>	May-28-18 01:09	May-28-18 01:48	May-28-18 02:26	May-28-18 03:04	May-28-18 03:41	May-28-18 04:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0

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

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

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 587245

Tetra Tech- Midland, Midland, TX

Project Name: EOG-Hound 30 Federal Water Line



Project Id: 212C-MD-01142
Contact: Ike Tavarez
Project Location: Lea County , New Mexico

Date Received in Lab: Fri May-25-18 09:26 am
Report Date: 30-MAY-18
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 587245-019 Field Id: Bottom Hole #5 (1.5' BEB) V Depth: Matrix: SOIL Sampled: May-23-18 00:00					
BTEX by EPA 8021B	Extracted: May-26-18 17:00 Analyzed: May-28-18 11:21 Units/RL: mg/kg RL					
Benzene	<0.00200 0.00200					
Toluene	<0.00200 0.00200					
Ethylbenzene	<0.00200 0.00200					
m,p-Xylenes	<0.00399 0.00399					
o-Xylene	<0.00200 0.00200					
Total Xylenes	<0.00200 0.00200					
Total BTEX	<0.00200 0.00200					
Inorganic Anions by EPA 300/300.1	Extracted: May-29-18 14:00 Analyzed: May-29-18 19:53 Units/RL: mg/kg RL					
Chloride	36.0 5.00					
TPH By SW8015 Mod	Extracted: May-26-18 14:00 Analyzed: May-28-18 04:57 Units/RL: mg/kg RL					
Gasoline Range Hydrocarbons (GRO)	<15.0 15.0					
Diesel Range Organics (DRO)	<15.0 15.0					
Oil Range Hydrocarbons (ORO)	<15.0 15.0					
Total TPH	<15.0 15.0					

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

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

Jessica Kramer

Jessica Kramer
Project Assistant



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051523

Sample: 587245-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 07:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	99.8	108	70-135	
o-Terphenyl	54.7	49.9	110	70-135	

Lab Batch #: 3051523

Sample: 587245-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 08:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.2	99.9	98	70-135	
o-Terphenyl	48.4	50.0	97	70-135	

Lab Batch #: 3051523

Sample: 587245-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 09:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.7	101	70-135	
o-Terphenyl	51.0	49.9	102	70-135	

Lab Batch #: 3051523

Sample: 587245-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 10:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.0	99.8	99	70-135	
o-Terphenyl	50.3	49.9	101	70-135	

Lab Batch #: 3051523

Sample: 587245-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 10:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.4	99.6	93	70-135	
o-Terphenyl	46.3	49.8	93	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051523

Sample: 587245-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 11:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	78.3	99.6	79	70-135	
o-Terphenyl	37.5	49.8	75	70-135	

Lab Batch #: 3051523

Sample: 587245-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 14:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.1	99.8	71	70-135	
o-Terphenyl	35.3	49.9	71	70-135	

Lab Batch #: 3051523

Sample: 587245-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 19:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.4	99.7	95	70-135	
o-Terphenyl	47.8	49.9	96	70-135	

Lab Batch #: 3051523

Sample: 587245-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 20:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.2	99.7	89	70-135	
o-Terphenyl	45.3	49.9	91	70-135	

Lab Batch #: 3051523

Sample: 587245-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 21:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.9	99.9	83	70-135	
o-Terphenyl	41.0	50.0	82	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051523

Sample: 587245-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 23:51

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	87.9	99.9	88	70-135	
o-Terphenyl	43.7	50.0	87	70-135	

Lab Batch #: 3051523

Sample: 587245-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 00:31

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	95.0	100	95	70-135	
o-Terphenyl	48.1	50.0	96	70-135	

Lab Batch #: 3051523

Sample: 587245-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 01:09

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	98.8	99.7	99	70-135	
o-Terphenyl	49.5	49.9	99	70-135	

Lab Batch #: 3051523

Sample: 587245-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 01:48

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	99.7	99.8	100	70-135	
o-Terphenyl	51.3	49.9	103	70-135	

Lab Batch #: 3051523

Sample: 587245-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 02:26

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	95.3	99.8	95	70-135	
o-Terphenyl	47.5	49.9	95	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051523

Sample: 587245-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 03:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.6	99.9	100	70-135	
o-Terphenyl	50.1	50.0	100	70-135	

Lab Batch #: 3051523

Sample: 587245-017 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 03:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	99.6	91	70-135	
o-Terphenyl	45.8	49.8	92	70-135	

Lab Batch #: 3051599

Sample: 587245-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 04:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	70-130	
4-Bromofluorobenzene	0.0322	0.0300	107	70-130	

Lab Batch #: 3051523

Sample: 587245-018 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 04:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.9	99.7	83	70-135	
o-Terphenyl	41.3	49.9	83	70-135	

Lab Batch #: 3051599

Sample: 587245-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 04:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051599

Sample: 587245-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 04:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	70-130	
4-Bromofluorobenzene	0.0338	0.0300	113	70-130	

Lab Batch #: 3051523

Sample: 587245-019 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 04:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.6	99.7	87	70-135	
o-Terphenyl	43.4	49.9	87	70-135	

Lab Batch #: 3051599

Sample: 587245-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 05:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	70-130	
4-Bromofluorobenzene	0.0349	0.0300	116	70-130	

Lab Batch #: 3051599

Sample: 587245-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 05:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	70-130	
4-Bromofluorobenzene	0.0324	0.0300	108	70-130	

Lab Batch #: 3051599

Sample: 587245-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 05:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	70-130	
4-Bromofluorobenzene	0.0332	0.0300	111	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051599

Sample: 587245-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 06:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0264	0.0300	88	70-130	
4-Bromofluorobenzene	0.0330	0.0300	110	70-130	

Lab Batch #: 3051599

Sample: 587245-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 06:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	70-130	
4-Bromofluorobenzene	0.0332	0.0300	111	70-130	

Lab Batch #: 3051599

Sample: 587245-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 06:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	70-130	
4-Bromofluorobenzene	0.0346	0.0300	115	70-130	

Lab Batch #: 3051599

Sample: 587245-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 07:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	70-130	
4-Bromofluorobenzene	0.0359	0.0300	120	70-130	

Lab Batch #: 3051599

Sample: 587245-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 07:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	70-130	
4-Bromofluorobenzene	0.0348	0.0300	116	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051599

Sample: 587245-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 09:10

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	70-130	
4-Bromofluorobenzene	0.0331	0.0300	110	70-130	

Lab Batch #: 3051599

Sample: 587245-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 09:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	70-130	
4-Bromofluorobenzene	0.0336	0.0300	112	70-130	

Lab Batch #: 3051599

Sample: 587245-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 09:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	70-130	
4-Bromofluorobenzene	0.0313	0.0300	104	70-130	

Lab Batch #: 3051599

Sample: 587245-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 10:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	70-130	
4-Bromofluorobenzene	0.0348	0.0300	116	70-130	

Lab Batch #: 3051599

Sample: 587245-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 10:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	70-130	
4-Bromofluorobenzene	0.0336	0.0300	112	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051599

Sample: 587245-017 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 10:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	70-130	
4-Bromofluorobenzene	0.0344	0.0300	115	70-130	

Lab Batch #: 3051599

Sample: 587245-018 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 11:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	70-130	
4-Bromofluorobenzene	0.0344	0.0300	115	70-130	

Lab Batch #: 3051599

Sample: 587245-019 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 11:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	70-130	
4-Bromofluorobenzene	0.0321	0.0300	107	70-130	

Lab Batch #: 3051523

Sample: 7655538-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/27/18 04:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.7	100	90	70-135	
o-Terphenyl	45.6	50.0	91	70-135	

Lab Batch #: 3051599

Sample: 7655573-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/28/18 03:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	70-130	
4-Bromofluorobenzene	0.0318	0.0300	106	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051523

Sample: 7655538-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/27/18 05:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	55.1	50.0	110	70-135	

Lab Batch #: 3051599

Sample: 7655573-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/28/18 02:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0345	0.0300	115	70-130	

Lab Batch #: 3051523

Sample: 7655538-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/27/18 06:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	54.8	50.0	110	70-135	

Lab Batch #: 3051599

Sample: 7655573-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/28/18 02:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	70-130	
4-Bromofluorobenzene	0.0304	0.0300	101	70-130	

Lab Batch #: 3051523

Sample: 587245-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 07:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	99.8	116	70-135	
o-Terphenyl	52.5	49.9	105	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: EOG-Hound 30 Federal Water Line

Work Orders : 587245,

Project ID: 212C-MD-01142

Lab Batch #: 3051599

Sample: 586705-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 03:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	70-130	
4-Bromofluorobenzene	0.0269	0.0300	90	70-130	

Lab Batch #: 3051523

Sample: 587245-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/27/18 08:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.7	107	70-135	
o-Terphenyl	50.3	49.9	101	70-135	

Lab Batch #: 3051599

Sample: 586705-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/28/18 03:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0252	0.0300	84	70-130	
4-Bromofluorobenzene	0.0277	0.0300	92	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



BS / BSD Recoveries



Project Name: EOG-Hound 30 Federal Water Line

Work Order #: 587245

Project ID: 212C-MD-01142

Analyst: JUM

Date Prepared: 05/26/2018

Date Analyzed: 05/28/2018

Lab Batch ID: 3051599

Sample: 7655573-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00198	0.0992	0.0827	83	0.0998	0.0871	87	5	70-130	35	
Toluene	<0.00198	0.0992	0.0805	81	0.0998	0.0855	86	6	70-130	35	
Ethylbenzene	<0.00198	0.0992	0.0833	84	0.0998	0.0893	89	7	70-130	35	
m,p-Xylenes	<0.00397	0.198	0.182	92	0.200	0.190	95	4	70-130	35	
o-Xylene	<0.00198	0.0992	0.0977	98	0.0998	0.101	101	3	70-130	35	

Analyst: SCM

Date Prepared: 05/29/2018

Date Analyzed: 05/29/2018

Lab Batch ID: 3051657

Sample: 7655565-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	268	107	250	267	107	0	90-110	20	

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

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: EOG-Hound 30 Federal Water Line

Work Order #: 587245

Project ID: 212C-MD-01142

Analyst: SCM

Date Prepared: 05/29/2018

Date Analyzed: 05/29/2018

Lab Batch ID: 3051658

Sample: 7655591-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	267	107	250	262	105	2	90-110	20	

Analyst: ARM

Date Prepared: 05/26/2018

Date Analyzed: 05/27/2018

Lab Batch ID: 3051523

Sample: 7655538-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	968	97	1000	945	95	2	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	1080	108	1000	1010	101	7	70-135	20	

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

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: EOG-Hound 30 Federal Water Line

Work Order #: 587245

Project ID: 212C-MD-01142

Lab Batch ID: 3051599

QC- Sample ID: 586705-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/28/2018

Date Prepared: 05/26/2018

Analyst: JUM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.00424	0.0986	0.0226	19	0.0990	0.0265	22	16	70-130	35	X
Toluene	0.00516	0.0986	0.0169	12	0.0990	0.0185	13	9	70-130	35	X
Ethylbenzene	<0.00197	0.0986	0.0126	13	0.0990	0.0124	13	2	70-130	35	X
m,p-Xylenes	<0.00394	0.197	0.0266	14	0.198	0.0278	14	4	70-130	35	X
o-Xylene	<0.00197	0.0986	0.0119	12	0.0990	0.0120	12	1	70-130	35	X

Lab Batch ID: 3051657

QC- Sample ID: 587245-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/29/2018

Date Prepared: 05/29/2018

Analyst: SCM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	21.5	249	281	104	249	281	104	0	90-110	20	

Lab Batch ID: 3051657

QC- Sample ID: 587245-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/29/2018

Date Prepared: 05/29/2018

Analyst: SCM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<4.95	248	259	104	248	261	105	1	90-110	20	

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

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: EOG-Hound 30 Federal Water Line

Work Order #: 587245

Project ID: 212C-MD-01142

Lab Batch ID: 3051658

QC- Sample ID: 587245-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/29/2018

Date Prepared: 05/29/2018

Analyst: SCM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	19.9	248	278	104	248	279	104	0	90-110	20	

Lab Batch ID: 3051658

QC- Sample ID: 587245-019 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/29/2018

Date Prepared: 05/29/2018

Analyst: SCM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	36.0	250	278	97	250	280	98	1	90-110	20	

Lab Batch ID: 3051523

QC- Sample ID: 587245-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/27/2018

Date Prepared: 05/26/2018

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	944	95	997	888	89	6	70-135	20	
Diesel Range Organics (DRO)	<15.0	998	1010	101	997	962	96	5	70-135	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 4000 N. Big Spring Street, Ste
 401 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

587245

Page 1 of 2

Client Name: EOG		Site Manager: Ike Tavares	
Project Name: Hound 30 Federal Water Line			
Project Location: Lea County, New Mexico		Project #: 212C-MD-01142	
Invoice to: Tetra Tech, Inc.			
Receiving Laboratory: Xenco Midland Tx		Sampler Signature: Mike Carmona	
Comments: 3 day Turn Around			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			None
	Bottom Hole #1 (1.5' BEB)	5/23/2018		X		X				1 N	
	Bottom Hole #1 (1.5' BEB) North Sidewall	5/23/2018		X		X				1 N	
	Bottom Hole #1 (1.5' BEB) South Sidewall	5/23/2018		X		X				1 N	
	Bottom Hole #1 (1.5' BEB) East Sidewall	5/23/2018		X		X				1 N	
	Bottom Hole #1 (1.5' BEB) West Sidewall	5/23/2018		X		X				1 N	
	Bottom Hole #2 (1.5'-2' BEB)	5/24/2018		X		X				1 N	
	Bottom Hole #2 (1.5'-2' BEB) North Sidewall	5/24/2018		X		X				1 N	
	Bottom Hole #2 (1.5'-2' BEB) East Sidewall	5/24/2018		X		X				1 N	
	Bottom Hole #2 (1.5'-2' BEB) West Sidewall	5/24/2018		X		X				1 N	
	Bottom Hole #3 (1.5'-2' BEB)	5/24/2018		X		X				1 N	

LAB USE ONLY		REMARKS:	
Sample Temperature	4.7	<input type="checkbox"/> STANDARD	
	6.5	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	
		<input type="checkbox"/> Rush Charges Authorized	
		<input type="checkbox"/> Special Report Limits or TRRP Report	

ANALYSIS REQUEST (Circle or Specify Method No.)	
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	

ORIGINAL COPY

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705



Ike Tavaréz

ANALYSIS REQUEST

(Circle or Specify Method No.)

212C-MD-01142

Mike Carmona

3 day Turn Around

ID: 6/8/2023-9:47:25					
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>mike</i>	<i>5/25/18</i>	<i>9:25</i>	<i>KORTEL</i>	<i>5/25/18</i>	<i>09:26</i>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<div style="text-align: right;">LAB USE ONLY</div> <div style="text-align: center;">Sample Temperature <i>4.7</i> <i>11.0</i> <i>8.0</i> </div>					
REMARKS:					
<input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr <u>72 hr</u> <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report					
aging: 6/22/2023 1:10					

REMARKS:

STANDARD

Google | Translations

☒ **RUSH:** Same Day 24 hr 48 hr **(72 hr)**

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) **HAND DELIVERED**

FEDEX UPS Tracking#:

to Im





XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 05/25/2018 09:26:00 AM

Work Order #: 587245

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist**Comments**

#1 *Temperature of cooler(s)?	4.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 05/25/2018

Checklist reviewed by:

Jessica Kramer

Date: 05/25/2018

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

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

CONDITIONS

Action 225424

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 225424
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	6/22/2023