

March 27, 2020

Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Report for the EOG Resources, Ohkay SWD #3, Section 6, Township 25 South, Range 30 East, Eddy County, New Mexico.

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to asses and remediate a release that occurred at the EOG Resources, Ohkay SWD #3, Section 6, Township 25 South, Range 30 East, Eddy County, New Mexico (Site). The site coordinates are 32.13240°, -104.13323°. 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 17, 2011 and released approximately 60 barrels of produced water due to a tank overflow. 10 barrels of the released fluids were recovered. The release occurred North of the tank battery, impacting areas measuring approximately 60' x 6'. The C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances and the site is in a low karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 7, approximately 0.45 miles south-southwest of the site, and has a reported depth to groundwater of 263 feet below ground surface. Site characterization data is included in Appendix B.

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, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine

etra Tech



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 site characterization, the proposed RRAL for TPH is 2,500 mg/kg (GRO+DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 20,000 mg/kg.

Soil Assessment and Analytical Results

On January 6, 2020, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of four (4) auger holes (AH-1 through AH-4) were installed to total depths ranging from 0-1' below surface. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all samples analyzed showed benzene, total BTEX, and TPH concentrations were below the reclamation thresholds. However, elevated chloride concentrations were detected, all below RRAL, but there were exceptions above the 600 mg/kg reclamation threshold. The areas of AH-1 and AH-3 showed chloride concentrations above 600 mg/kg that were not vertically defined at total depths ranging from 0-1' below surface. The areas of AH-2 and AH-4 showed chloride highs of 1,850 mg/kg and 1,080 mg/kg at 0-1', respectively.

Remediation and Reclamation Activities

Based on the results of the soil assessment, Tetra Tech personnel were onsite February 25, 2020 and March 5, 2020, to supervise the remediation and reclamation activities as well as to collect confirmation samples. On February 25, 2020, the impacted areas were excavated to total depths ranging from 1.5'-2.0' below surface, and on March 5, 2020, the impacted areas of Bottom Hole 1 and Bottom Hole 2 were excavated an additional 0.5' to a total of 2.0'. The excavation map and data is shown on Figure 4 and highlighted (green) on Table 1.

Confirmation bottom hole and sidewall samples were collected every 8 square feet, a total of 8 bottom hole samples (Bottom Hole 1 through Bottom Hole 8) and 4 sidewall samples (N1SW, S1SW, E1SW, W1SW) were collected to ensure proper removal of the impacted soils. Additionally, on March 5, 2020, two (2) additional soil samples were taken for Bottom Hole 1 and Bottom Hole 2. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 1. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths and sample locations are shown in Figure 4.

Referring to Table 1, all final confirmation samples collected showed benzene, total BTEX, and TPH concentrations below the RRALs. Additionally, all final samples, showed chloride concentrations below the 600 mg/kg threshold.

Approximately 77 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.



Conclusion

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

Respectfully submitted,

TETRA TECH

Brittany Long,

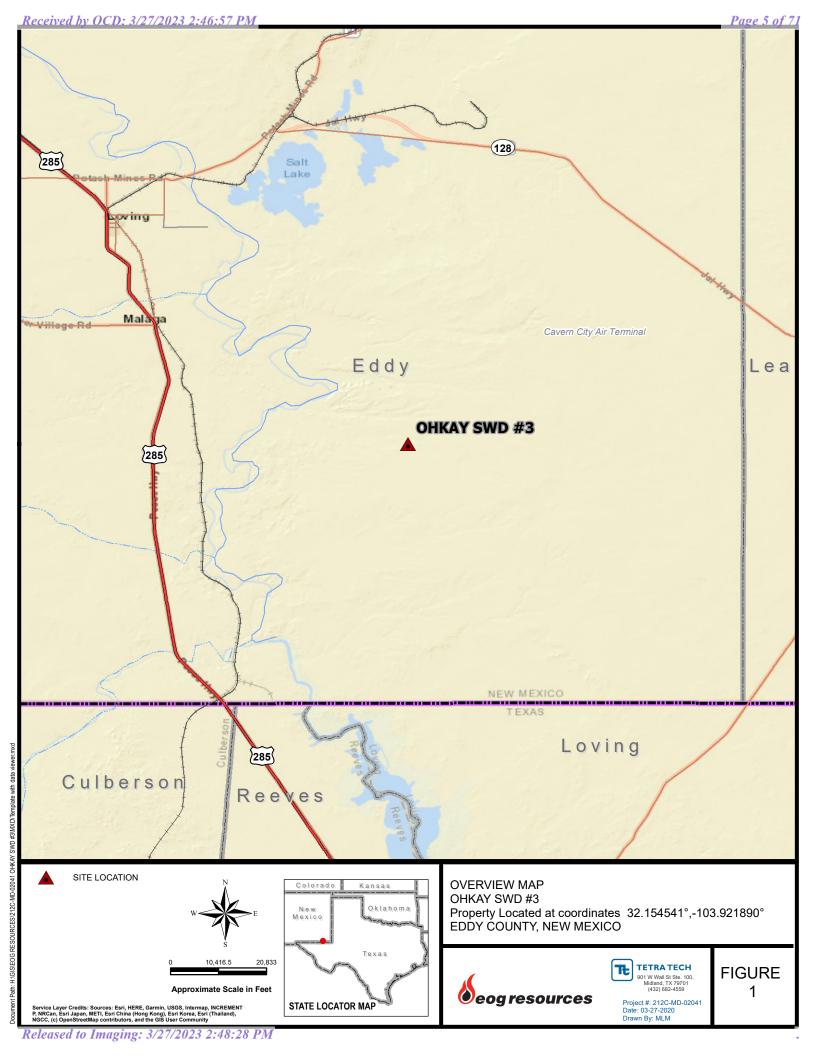
Environmental Scientist/Biologist

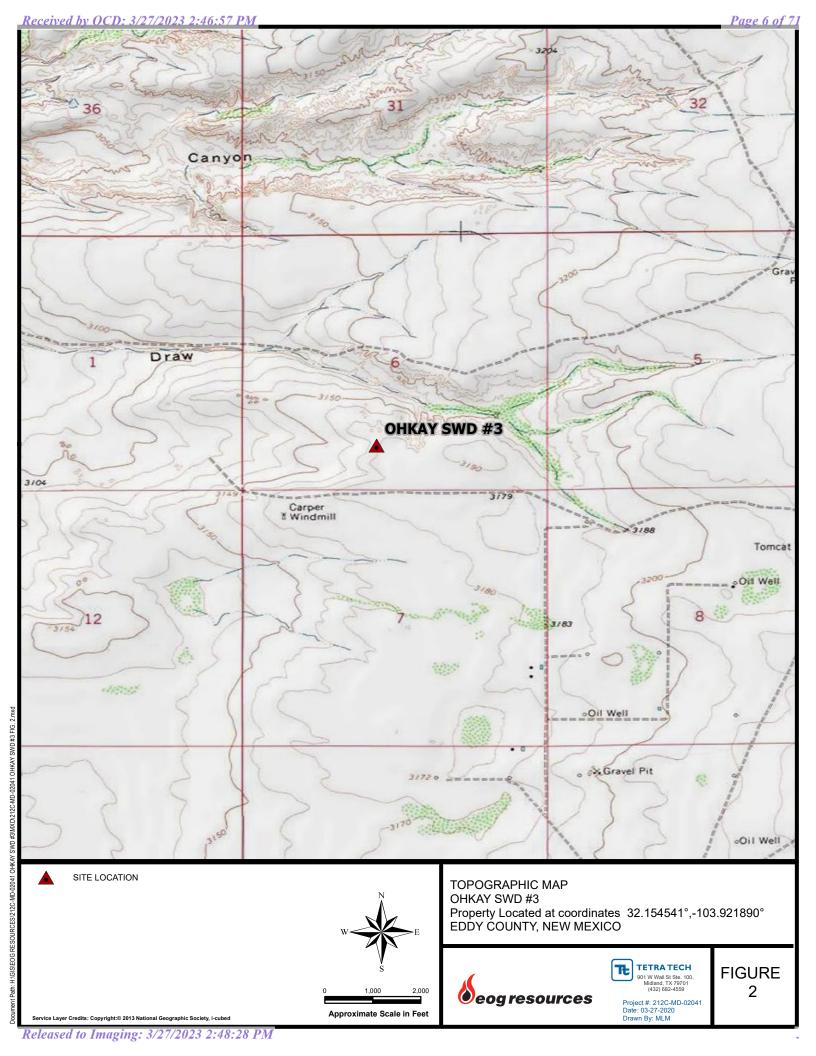
Clair Gonzales,

Project Manager, P.G.

cc: James Kennedy – EOG Todd Wells - EOG

Figures





2.0' DEPTH AREA



Approximate Scale in Feet

EDDY COUNTY, NEW MEXICO





FIGURE

Tables

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Table 1
EOG
Ohkay SWD #3
Eddy County, New Mexico

Samula ID	Sample	Sample	Soil Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride		
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	1/6/2020	0-1		Х	<49.9	98.4	<49.9	98.4	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,850
AH-2	1/6/2020	0-1		Х	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	77.1
AH-3	1/6/2020	0-1		Х	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	1,080
AH-4	1/6/2020	0-1		Х	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	45.1
BH-1	2/25/2020	1.5		Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	848
BH-1	3/5/2020	2.0	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
BH-2	2/25/2020	1.5		Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	848
BH-2	3/5/2020	2.0	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
BH-3	2/25/2020	2.0	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
BH-4	2/25/2020	2.0	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
BH-5	2/25/2020	2.0	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
BH-6	2/25/2020	2.0	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
BH-7	2/25/2020	2.0	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
BH-8	2/25/2020	2.0	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
North 1 Sidewall	2/25/2020	_	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
East 1 Sidewall	2/25/2020	_	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
West 1 Sidewall	2/25/2020	_	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
South 1 Sidewall	2/25/2020	_	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416

Photos

EOG Ohkay SWD #3 Eddy County, New Mexico







View of Release - View South



View of Release - View Southeast

EOG Ohkay SWD #3 Eddy County, New Mexico







View of Release - View Northwest



View of Remediation Activities

EOG Ohkay SWD #3 Eddy County, New Mexico







View of Remediation Activities



View of Remediation Activities

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party			OGRID	OGRID				
Contact Nam	ie			Contact To	Contact Telephone			
Contact email				Incident #	Incident # (assigned by OCD)			
Contact mail	ing address			1				
			Location	of Release S	ource			
Latitude				Longitude				
			(NAD 83 in dec	cimal degrees to 5 decir	nal places)			
Site Name				Site Type	Site Type			
Date Release	Discovered			API# (if app	olicable)			
Unit Letter	Section	Township	Range	Cour	nts.	1		
Omit Letter	Section	Township	Range	Cour	ity			
Surface Owner	r: State	☐ Federal ☐ Tr	ibal Private (1	Name:)		
			Natura and	d Volume of 1	Palanca			
Crude Oil		(s) Released (Select al Volume Release		calculations or specific	Volume Reco	volumes provided below)		
Produced		Volume Release	` '		Volume Recovered (bbls)			
Troduced	vv ater		ion of total dissol	ved solids (TDS)	Yes No			
			water >10,000 mg		resn	O		
Condensa	te	Volume Release	d (bbls)		Volume Recovered (bbls)			
Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide unit		e units)	Volume/Weight Recovered (provide units)					
Cause of Rele	ease							
<u> </u>								

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	ruge 1/ 0j /
Incident ID	
District RP	
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Application ID	

Was this a major release as defined by	ason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☐ No	
If VES, was immediate notice given to the OC	CD? By whom? To whom? When and by what means (phone, email, etc)?
ii 1 ES, was ininiediate notice given to the OC	D: By whom: To whom: When and by what means (phone, eman, etc):
	Initial Response
The responsible party must undertake the f	following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the release has been stopped	1.
☐ The impacted area has been secured to pro	
Released materials have been contained vi	ia the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials	have been removed and managed appropriately.
If all the actions described above have <u>not</u> bee	n undertaken, explain why:
has begun, please attach a narrative of actions	party may commence remediation immediately after discovery of a release. If remediation is to date. If remedial efforts have been successfully completed or if the release occurred 11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environment. The acceptance of	or file certain release notifications and perform corrective actions for releases which may endanger of a C-141 report by the OCD does not relieve the operator of liability should their operations have
addition, OCD acceptance of a C-141 report does no	amination that pose a threat to groundwater, surface water, human health or the environment. In ot relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name:	Title:
Signature: James F Kenned email:	ly Date:
email:	Telephone:
OCD Only	
Received by:	Date:

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Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

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

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I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thruaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	
Signature: James F Kennedy	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

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Remediation Plan

Remediation Plan Checklist: Each of the following items must b	so included in the plan
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation poin ☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29. ☐ Proposed schedule for remediation (note if remediation plan times)	ts 12(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be co	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature: James F Kennedy	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved	Approval
Signature:	<u>Date:</u>

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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	r 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 photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office									
Laboratory analyses of final sampling (Note: appropriate OI	OC District office must be notified 2 days prior to final sampling)									
Description of remediation activities										
and regulations all operators are required to report and/or file certamay endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulatore, reclaim, and re-vegetate the impacted surface area to the of accordance with 19.15.29.13 NMAC including notification to the	OCD when reclamation and re-vegetation are complete.									
Printed Name:	Title:									
Signature: James F Kennedy	Date:									
email:	Telephone:									
OCD Only										
Received by:	Date:									
	ty of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.									
Closure Approved by:	Date:									
Printed Name:	Title:									

Bratcher, Mike, EMNRD

From: Amanda Trujillo [atrujillo@yatespetroleum.com]

Sent: Wednesday, February 23, 2011 5:30 PM

Bratcher, Mike, EMNRD To:

Cc: Jerry Fanning OhKay SWD #3 Subject:

Mr. Bratcher:

Yates Petroleum reports a release at the following location:

Ohkay SWD #3

Section 6, Township 25 South, Range 30 East

Eddy County

Date of Release: 02-17-2011

Approximately 60 barrels of water were released 10 barrels recovered Cause of release has been isolated and repairs were completed

Vacuum truck on site recovered standing fluids

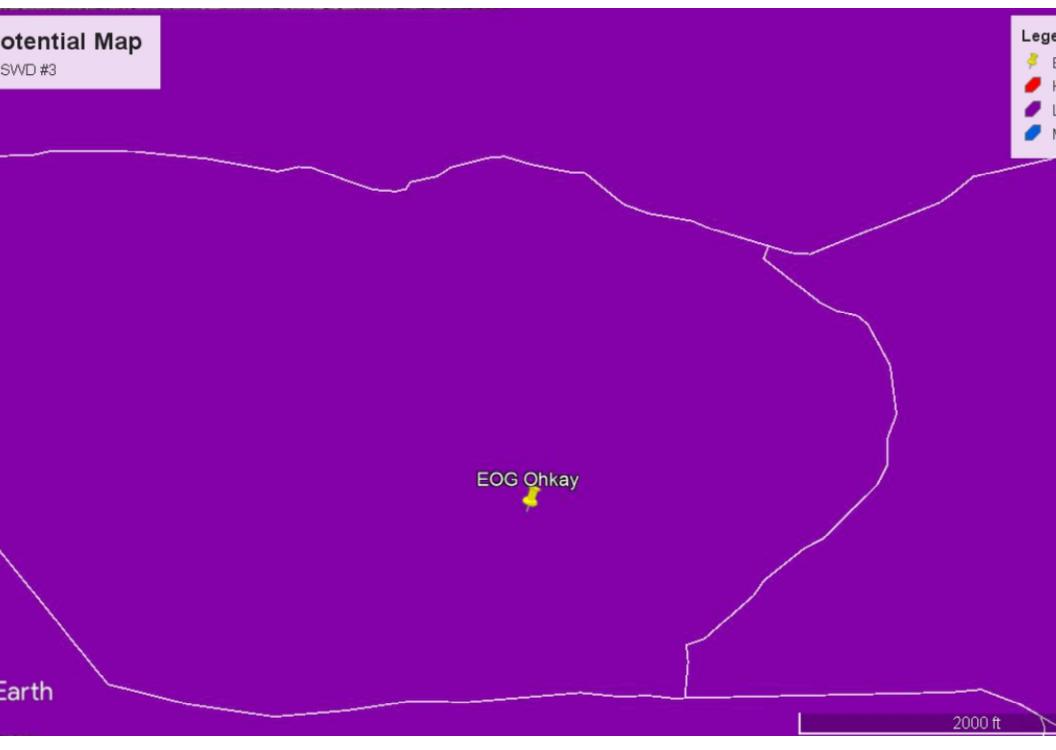
Site will be evaluated and a work plan for remediation will be submitted for consideration.

Please excuse the tardiness with this report there was a mix up with field personnel and the copy of the report. If you should have any guestions please feel free to contact me at the number below.

Amanda N. Trujillo Environmental Scientist Yates Petroleum Corporation Office 575-748-4310 Cell 575-703-6537

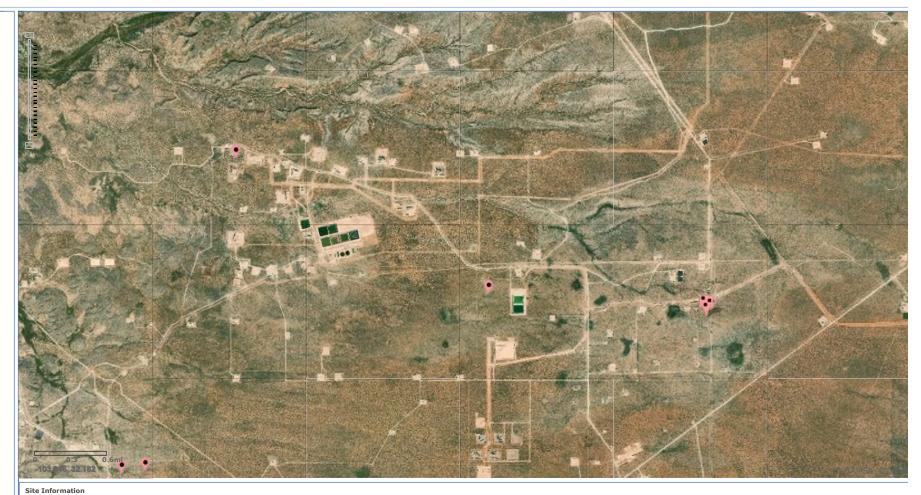
Email atrujillo@yatespetroleum.com

Appendix B

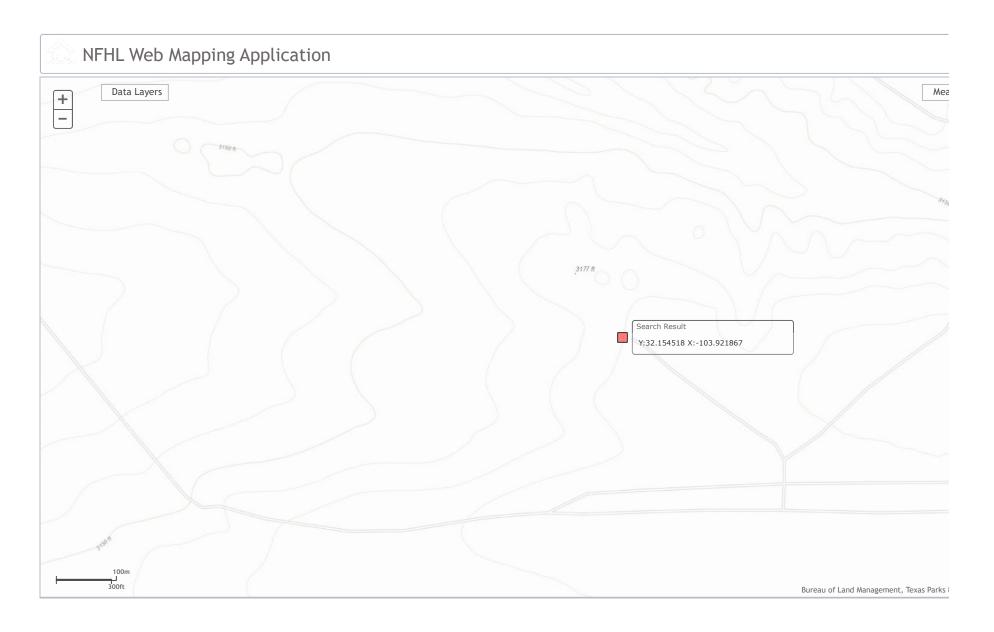




National Water Information System: Mapper



Released to Imaging: 3/27/2023 2:48:28 PM





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	✓ United States	✓ GO

Click to hideNews Bulletins

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 320857103553301

Minimum number of levels = 1

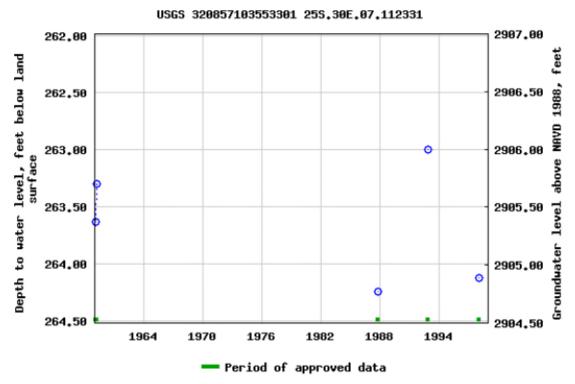
Save file of selected sites to local disk for future upload

USGS 320857103553301 25S.30E.07.112331

Available data for this site	Groundwater: Field measurements ∨ GO
Eddy County, New Mexico	
Hydrologic Unit Code 13060	0011
Latitude 32°08'57", Longit	ude 103°55'33" NAD27
Land-surface elevation 3,16	59 feet above NAVD88
The depth of the well is 385	5 feet below land surface.
This well is completed in th	e Alluvium, Bolson Deposits and Other Surface
Deposits (110AVMB) local a	aquifer.

Output formats

Table of data	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	



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

Download a presentation-quality graph

Questions about sites/data?
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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-01-08 16:13:51 EST

0.57 0.48 nadww01





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 Sub-		Q	Q	Q					Depth	Depth	Water
POD Number	Code basin	County	64	16	4 Se	c Tws	Rng	Х	Υ	Well	Water	Column
C 01379	С	ED	4	4	3 10	25S	30E	606571	3556355* 🍑	400		
C 03716 POD1	CUB	ED	4	2	2 02	25S	30E	609069	3559211 🌍	600	425	175
C 03781 POD1	CUB	ED	3	3	3 13	25S	30E	609306	3554761 🎒	720	325	395
C 03782 POD1	CUB	ED	4	3	3 28	25S	30E	604526	3551444 🌍	805	277	528
C 03891 POD1	CUB	ED	4	4	2 01	25S	30E	610608	3558890 🎒	635	429	206

Average Depth to Water: 364 feet

Minimum Depth: 277 feet

Maximum Depth: 429 feet

Record Count: 5

PLSS Search:

Township: 25S Range: 30E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Water Well Data Average Depth to Groundwater (ft) EOG - Ohkay SWD #3 Eddy County, New Mexico

	24 Sc	outh	2	9 East	<u>:</u>		24 \$	South	3	0 East			24 S	outh	;	31 East	
3	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2 205	1
60	8	9	10	11	12	7	8 186	9	10	11	12	7	8	9	10	11	12
8	17 4	16 18	15	14	13	18	17	16	15	14	13	18	17 74	16	15	14	13
9	20	21	22	23	24	19 23 1	20	21	22	23 400	24	19	20	21	22	23	24
0	29	28	27	26	25	150 30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33 474	34	35	36
	25 Sc	outh	2:	9 East			25 S	outh	3	0 East		<u> </u>	25 S		:	31 East	
ر کرم	5	4	3	2	1	6	5		3	2 295	1	6	5	4	3	2	1
7	8	9	10	11	12	7 26 4	8	9 295	10	11	12	7	8	9	10	11	12
8	17	16	15 00	14	13	18	17	16	15	14	390 13	18	17	16	15	14	13
9	20	21	22	23	24	19	20	21 265 268	22	23	24	19	20	21 390 290	22	23	24
0	29	28	27	26	25	30	29		27	26	25	30	29	28	27	26	25
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9	20	21	22 57	23	24	19	20	21	22 117	23	24	19	20	21	22	23	24
)	29	28	69 27	26	25	30	29	28	117 27	26	180 25	30	29	28	27	26	25
1	32	33	34	35	36	31	32	33	34	35	36	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

Appendix C



Project Id:

Certificate of Analysis Summary 647999

Tetra Tech- Midland, Midland, TX Project Name: Ohkay SWD #3

pending

Contact: Mike Carmona
Project Location: Eddy Co, NM

Date Received in Lab: Mon Jan-06-20 02:05 pm

Report Date: 08-JAN-20 **Project Manager:** Jessica Kramer

Lab Id:	647999-0	01	647999-0	02	647999-0	003	647999-004				
Field Id:	AH#1 (0-1')		AH#2 (0-1')		AH#3 (0-1')		AH#4 (0-1')				
Depth:	0-1 ft		0-1 ft		0-1 ft		0-1 ft				
Matrix:	SOIL		SOIL		SOIL		SOIL	,			
Sampled:	Jan-06-20 0	00:00	Jan-06-20 0	00:00	Jan-06-20 (00:00	Jan-06-20	00:00			
Extracted:	Jan-06-20 1	5:00	Jan-06-20 1	5:00	Jan-06-20 1	15:00	Jan-06-20	15:00			
Analyzed:	Jan-06-20 1	7:05	Jan-06-20 1	7:23	Jan-06-20 17:40		Jan-06-20	17:57			
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL			
	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202			
	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202			
	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202			
	< 0.00396	0.00396	< 0.00404	0.00404	< 0.00402	0.00402	< 0.00403	0.00403			
	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202			
	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202			
	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202			
Extracted:	Jan-06-20 1	5:00	Jan-06-20 1	5:00	Jan-06-20 15:00		Jan-06-20 15:00	15:00			
Analyzed:	Jan-06-20 1	5:56	Jan-06-20 16:12		Jan-06-20 16:18		Jan-06-20 16:24	16:24			
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL			
	1850	49.4	77.1	9.98	1080	50.4	45.1	10.0			
Extracted:	Jan-07-20 08:00		Jan-07-20 08:00		Jan-07-20 08:00		Jan-07-20 08:00				
Analyzed:	Jan-07-20 09:39		Jan-07-20 0	9:59	Jan-07-20 10:18		Jan-07-20 10:18				
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL			
	<49.9	49.9	<49.8	49.8	<49.8	49.8	<49.8	49.8			
	98.4	49.9	<49.8	49.8	<49.8	49.8	<49.8	49.8			
	<49.9	49.9	<49.8	49.8	<49.8	49.8	<49.8	49.8			
	98.4	49.9	<49.8	49.8	<49.8	49.8	<49.8	49.8			
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed: Analyzed:	Field Id:	Field Id: Depth: O-1 ft Matrix: SOIL Sampled: Jan-06-20 00:00 Extracted: Jan-06-20 15:00 Analyzed: Jan-06-20 17:05 mg/kg RL <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 0.00198 <0.00198 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Jan-06-20 1 Units/RL: mg/kg RL mg/kg <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198 <0.00202 <0.00198 0.00198	Field Id: AH#1 (0-1') AH#2 (0-1') Depth: 0-1 ft 0-1 ft Matrix: SOIL SOIL Sampled: Jan-06-20 00:00 Jan-06-20 00:00 Extracted: Jan-06-20 15:00 Jan-06-20 15:00 Analyzed: Jan-06-20 17:05 Jan-06-20 17:23 mg/kg RL mg/kg RL <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <0.00198 0.00198 <0.00202 0.00202 <th>Field Id: 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<0.00202 0.00202 <0.00201 0.00201 <0.00396 0.00396 0.00396 <0.00404 0.00404 <0.00402 0.00402 <0.00198 0.00198 0.00198 0.00198 0.00202 0.00202 <0.00201 0.00201 <0.00198 0.00198 0.00198 0.00202 0.00202 0.00202 0.00202 <0.00201 0.00201 <0.00198 0.00198 0.00198 0.00202 0.00202 0.00202 0.00202 0.00201 <0.00201 0.00201 Extracted: Jan-06-20 15:00 Jan-06-20 15:18 Jan-06-20 15:00 Jan-07-20 08:00 Jan-07-20 08:00 Jan-07-20 08:00 Jan-07-2	Field Id: AH#1 (0-1') AH#2 (0-1') AH#3 (0-1') AH#4 (0 Depth: 0-1 ft 0-1	Field Id: AH#1 (0-1') AH#2 (0-1') AH#3 (0-1') AH#4 (0-1') AH#4 (0-1') Depth: 0-1 ft 0-1 ft<	Field Id: AH#1 (0-1') AH#2 (0-1') AH#3 (0-1') AH#4 (0-1') AH#4 (0-1') Depth: 0-1 ft 0-1 ft 0-1 ft 0-1 ft 0-1 ft 0-1 ft Matrix: SOIL SOIL SOIL SOIL SOIL SOIL Sampled: Jan-06-20 00:00 Jan-06-20 00:00 Jan-06-20 00:00 Jan-06-20 15:00 Jan-06-20 15:00 Jan-06-20 17:57 Analyzed: Jan-06-20 17:05 Jan-06-20 17:23 Jan-06-20 17:40 Jan-06-20 17:57 Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL <0.00198 0.00198 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SOIL. SOIL. SOIL. Sampled: Jan-06-20 00:00 Jan-06-20 00:00 Jan-06-20 00:00 Jan-06-20 15:00 Analyzed: Jan-06-20 17:05 Jan-06-20 17:23 Jan-06-20 17:40 Jan-06-20 17:57 Units/RL: mg/kg RL mg/kg RL mg/kg RL -0.00198 0.00198 <0.00202 0.00202 <0.00201 <0.00202 0.00202 -0.00396 0.00198 <0.00202 0.00202 <0.00201 <0.00202 <0.00202 -0.00198 0.00198 <0.00202</th></td<>	Field Id: AH#1 (0-1') AH#2 (0-1') AH#3 (0-1') AH#4 (0-1') Depth: 0-1 ft 0-1 ft 0-1 ft 0-1 ft Matrix: SOIL. SOIL. SOIL. SOIL. Sampled: Jan-06-20 00:00 Jan-06-20 00:00 Jan-06-20 00:00 Jan-06-20 15:00 Analyzed: Jan-06-20 17:05 Jan-06-20 17:23 Jan-06-20 17:40 Jan-06-20 17:57 Units/RL: mg/kg RL mg/kg RL mg/kg RL -0.00198 0.00198 <0.00202 0.00202 <0.00201 <0.00202 0.00202 -0.00198 0.00198 <0.00202 0.00202 <0.00201 <0.00202 0.00202 -0.00198 0.00198 <0.00202 0.00202 <0.00201 <0.00202 0.00202 -0.00198 0.00198 <0.00202 0.00202 <0.00201 <0.00202 0.00202 -0.00396 0.00198 <0.00202 0.00202 <0.00201 <0.00202 <0.00202 -0.00198 0.00198 <0.00202

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 - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Marru

Analytical Report 647999

for Tetra Tech- Midland

Project Manager: Mike Carmona
Ohkay SWD #3
pending
08-JAN-20

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



08-JAN-20

Project Manager: Mike Carmona Tetra Tech- Midland 901 West Wall ST Midland, TX 79701

Reference: XENCO Report No(s): 647999

Ohkay SWD #3

Project Address: Eddy Co, NM

Mike Carmona:

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) 647999. 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. 647999 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,

Jessica Kramer

Jessica Vramer

Project Assistant

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

Certified and approved by numerous States and Agencies.

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



Sample Cross Reference 647999

Tetra Tech- Midland, Midland, TX

Ohkay SWD #3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH#1 (0-1')	S	01-06-20 00:00	0 - 1 ft	647999-001
AH#2 (0-1')	S	01-06-20 00:00	0 - 1 ft	647999-002
AH#3 (0-1')	S	01-06-20 00:00	0 - 1 ft	647999-003
AH#4 (0-1')	S	01-06-20 00:00	0 - 1 ft	647999-004

CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Ohkay SWD #3

Project ID: pending Report Date: 08-JAN-20 Work Order Number(s): 647999 Date Received: 01/06/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3112464 Chloride by EPA 300

Lab Sample ID 647999-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647999-001, -002, -003, -004.

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

Batch: LBA-3112466 BTEX by EPA 8021B

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

Batch: LBA-3112515 TPH by SW8015 Mod

Lab Sample ID 647999-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Gasoline Range Hydrocarbons (GRO) recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647999-001, -002, -003, -004. The Laboratory Control Sample for Gasoline Range Hydrocarbons (GRO) is within laboratory Control Limits, therefore the data was accepted.



Tetra Tech- Midland, Midland, TX

Ohkay SWD #3

Sample Id: AH#1 (0-1') Matrix: Soil Date Received:01.06.20 14.05

Lab Sample Id: 647999-001

Date Collected: 01.06.20 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

MAB MAB

Basis: Date Prep: 01.06.20 15.00

% Moisture:

Wet Weight

Seq Number: 3112464

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 01.06.20 15.56 1850 49.4 mg/kg 5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

01.07.20 09.39

% Moisture:

70-135

DTH Tech: DTH

o-Terphenyl

Analyst:

01.07.20 08.00 Date Prep:

129

Basis: Wet Weight SUB: T104704400-19-19

Seq Number: 3112515

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.07.20 09.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	98.4	49.9		mg/kg	01.07.20 09.39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.07.20 09.39	U	1
Total TPH	PHC635	98.4	49.9		mg/kg	01.07.20 09.39		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	134	%	70-135	01.07.20 09.39		

84-15-1



Tetra Tech- Midland, Midland, TX

Ohkay SWD #3

Sample Id: AH#1 (0-1') Matrix: Soil

Date Received:01.06.20 14.05

Date Collected: 01.06.20 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

Lab Sample Id: 647999-001

% Moisture:

Analyst: MAB

Date Prep: 01.06.20 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	01.06.20 17.05	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	01.06.20 17.05	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	01.06.20 17.05	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	01.06.20 17.05	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	01.06.20 17.05	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	01.06.20 17.05	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	01.06.20 17.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	01.06.20 17.05		
4-Bromofluorobenzene		460-00-4	97	%	70-130	01.06.20 17.05		



Tetra Tech- Midland, Midland, TX

Ohkay SWD #3

Sample Id: AH#2 (0-1') Matrix: Soil Date Received:01.06.20 14.05

Lab Sample Id: 647999-002

Date Collected: 01.06.20 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB Date Prep: 01.06.20 15.00 Basis:

Wet Weight

Seq Number: 3112464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	77.1	9.98	mg/kg	01.06.20 16.12		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

01.07.20 08.00 Date Prep:

Basis: Wet Weight

Seq Number: 3112515

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.07.20 09.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.07.20 09.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.07.20 09.59	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	01.07.20 09.59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	127	%	70-135	01.07.20 09.59		
o-Terphenyl		84-15-1	125	%	70-135	01.07.20 09.59		



Tetra Tech- Midland, Midland, TX

Ohkay SWD #3

Sample Id: AH#2 (0-1') Matrix: Soil

Date Received:01.06.20 14.05

Lab Sample Id: 647999-002 Date Collected: 01.06.20 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moistur

% Moisture:

Analyst: MAB

Date Prep: 01.06.20 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	01.06.20 17.23	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	01.06.20 17.23	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	01.06.20 17.23	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	01.06.20 17.23	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	01.06.20 17.23	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	01.06.20 17.23	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	01.06.20 17.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	01.06.20 17.23		
1,4-Difluorobenzene		540-36-3	102	%	70-130	01.06.20 17.23		



Tetra Tech- Midland, Midland, TX

Ohkay SWD #3

Sample Id: AH#3 (0-1') Matrix: Soil Date Received:01.06.20 14.05

Lab Sample Id: 647999-003

Date Collected: 01.06.20 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB Date Prep:

01.06.20 15.00 Basis: Wet Weight

Seq Number: 3112464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1080	50.4	mg/kg	01.06.20 16.18		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

01.07.20 08.00 Date Prep:

Basis: Wet Weight SUB: T104704400-19-19

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.07.20 10.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.07.20 10.18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.07.20 10.18	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	01.07.20 10.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	117	%	70-135	01.07.20 10.18		
o-Terphenyl		84-15-1	121	%	70-135	01.07.20 10.18		



Tetra Tech- Midland, Midland, TX

Ohkay SWD #3

Sample Id: AH#3 (0-1') Matrix: Soil

Date Received:01.06.20 14.05

Date Collected: 01.06.20 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

Lab Sample Id: 647999-003

% Moisture:

Analyst: MAB

Date Prep: 01.06.20 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	01.06.20 17.40	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	01.06.20 17.40	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	01.06.20 17.40	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	01.06.20 17.40	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	01.06.20 17.40	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	01.06.20 17.40	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	01.06.20 17.40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	70-130	01.06.20 17.40		
1,4-Difluorobenzene		540-36-3	104	%	70-130	01.06.20 17.40		



Tetra Tech- Midland, Midland, TX

Ohkay SWD #3

Sample Id: AH#4 (0-1') Matrix: Soil Date Received:01.06.20 14.05

Lab Sample Id: 647999-004

Date Collected: 01.06.20 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB Date Prep: 01.06.20 15.00 Basis:

Wet Weight

Seq Number: 3112464

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 10.0 01.06.20 16.24 45.1 mg/kg 1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

01.07.20 08.00 Date Prep:

Basis: Wet Weight

Seq Number: 3112515

SUB: T104704400-19-19

Parameter	Cas Number	Result RL			Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.07.20 10.18	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.07.20 10.18	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.07.20 10.18	U	1	
Total TPH	PHC635	<49.8	49.8		mg/kg	01.07.20 10.18	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	124	%	70-135	01.07.20 10.18			
o-Terphenyl		84-15-1	124	%	70-135	01.07.20 10.18			



Tetra Tech- Midland, Midland, TX

Ohkay SWD #3

Sample Id: AH#4 (0-1') Matrix: Soil

Date Received:01.06.20 14.05

Lab Sample Id: 647999-004 Date Collected: 01.06.20 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.06.20 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	01.06.20 17.57	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	01.06.20 17.57	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	01.06.20 17.57	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	01.06.20 17.57	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	01.06.20 17.57	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	01.06.20 17.57	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	01.06.20 17.57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	01.06.20 17.57		
1,4-Difluorobenzene		540-36-3	101	%	70-130	01.06.20 17.57		



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.

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

^{**} Surrogate recovered outside laboratory control limit.



Seq Number:

Parameter

QC Summary 647999

Tetra Tech- Midland

Ohkay SWD #3

LCSD

LCSD

Analytical Method: Chloride by EPA 300

3112464 Matrix: Solid

LCS Sample Id: 7693779-1-BKS MB Sample Id: 7693779-1-BLK

Spike

LCS

MR

E300P Prep Method:

Date Prep: 01.06.20 LCSD Sample Id: 7693779-1-BSD

%RPD RPD Limit Units Analysis Flag

Result Amount Result %Rec Date %Rec Result 01.06.20 15:45

Chloride <10.0 250 248 99 245 98 90-110 20 mg/kg

LCS

Analytical Method: Chloride by EPA 300

Seq Number: 3112464

Matrix: Soil

Limits

E300P Prep Method: Date Prep:

01.06.20

MSD Sample Id: 647999-001 SD Parent Sample Id: 647999-001 MS Sample Id: 647999-001 S

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec Chloride 1850 198 2000 76 2040 96 90-110 2 20 mg/kg 01.06.20 16:01 X

Analytical Method: TPH By SW8015 Mod

Seq Number:

3112515

Matrix: Solid

Prep Method: Date Prep:

SW8015P

01.07.20

LCS Sample Id: 7693809-1-BKS LCSD Sample Id: 7693809-1-BSD MB Sample Id: 7693809-1-BLK

LCS LCS %RPD RPD Limit Units MB Spike LCSD LCSD Limits Analysis **Parameter** Result Date Result Amount %Rec Result %Rec 01.07.20 09:19 Gasoline Range Hydrocarbons (GRO) < 50.0 1000 1270 127 1310 70-135 3 35 131 mg/kg 70-135 01.07.20 09:19 Diesel Range Organics (DRO) < 50.0 1210 2 35 mg/kg 1000 121 1240 124

LCS MB MB LCS LCSD **LCSD** Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 01.07.20 09:19 1-Chlorooctane 118 134 130 70-135 % 01.07.20 09:19 o-Terphenyl 114 125 121 70-135 %

Analytical Method: TPH By SW8015 Mod

Seq Number:

Motor Oil Range Hydrocarbons (MRO)

3112515

Matrix: Solid

< 50.0

Prep Method:

SW8015P

Date Prep: 01.07.20

MB Sample Id: 7693809-1-BLK

Parameter Result

MB

Units

Analysis Date

Flag

Flag

01.07.20 08:59 mg/kg

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag



Seq Number:

QC Summary 647999

Tetra Tech- Midland

Ohkay SWD #3

Analytical Method: TPH By SW8015 Mod

3112515 Matrix: Soil

MS Sample Id: 647999-001 S Parent Sample Id: 647999-001

Prep Method: SW8015P

Date Prep: 01.07.20

MSD Sample Id: 647999-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.1	1000	1420	142	1210	122	70-135	16	35	mg/kg	01.07.20 12:31	X
Diesel Range Organics (DRO)	98.4	1000	1350	125	1130	104	70-135	18	35	mg/kg	01.07.20 12:31	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		123		70-135	%	01.07.20 12:31
o-Terphenyl	107		96		70-135	%	01.07.20 12:31

Analytical Method: BTEX by EPA 8021B

Seq Number: 3112466

MB Sample Id:

7693780-1-BLK

SW5030B Prep Method: Matrix: Solid

Date Prep: 01.06.20

LCSD Sample Id: 7693780-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.110	110	0.108	108	70-130	2	35	mg/kg	01.06.20 13:03
Toluene	< 0.00200	0.100	0.109	109	0.108	108	70-130	1	35	mg/kg	01.06.20 13:03
Ethylbenzene	< 0.00200	0.100	0.108	108	0.106	106	71-129	2	35	mg/kg	01.06.20 13:03
m,p-Xylenes	< 0.00400	0.200	0.222	111	0.220	110	70-135	1	35	mg/kg	01.06.20 13:03
o-Xylene	< 0.00200	0.100	0.109	109	0.107	107	71-133	2	35	mg/kg	01.06.20 13:03

LCS Sample Id: 7693780-1-BKS

Surrogate	МВ %Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		102		101		70-130	%	01.06.20 13:03
4-Bromofluorobenzene	97		103		102		70-130	%	01.06.20 13:03

Matrix: Soil

Analytical Method: BTEX by EPA 8021B

Seq Number: 3112466 Parent Sample Id:

MS Sample Id: 647999-001 S 647999-001

Prep Method: SW5030B Date Prep: 01.06.20

MSD Sample Id: 647999-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00198	0.0990	0.103	104	0.0960	97	70-130	7	35	mg/kg	01.06.20 15:56
Toluene	< 0.00198	0.0990	0.0951	96	0.0880	89	70-130	8	35	mg/kg	01.06.20 15:56
Ethylbenzene	< 0.00198	0.0990	0.0801	81	0.0725	73	71-129	10	35	mg/kg	01.06.20 15:56
m,p-Xylenes	< 0.00396	0.198	0.163	82	0.147	74	70-135	10	35	mg/kg	01.06.20 15:56
o-Xylene	< 0.00198	0.0990	0.0814	82	0.0739	75	71-133	10	35	mg/kg	01.06.20 15:56

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	01.06.20 15:56
4-Bromofluorobenzene	106		102		70-130	%	01.06.20 15:56

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result C = MS/LCS Result

E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



Chain of Custody

Work Order No: (24799)

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Relinquished by: (Signature)	Notice: Signature of this document an of service. Xenco will be liable only for Xenco. A minimum charge of \$75.0	Total 200.7 / 6010 2		AH# 4 (0-1)	AH#3 (0-1)		AH#1(0-1)	Sample Identification			Temperature (°C):	SAMPLE RECEIPT	P0#:		Project Location Eddy	Project Number: PENDING	Project Name: On Ka	Phone:	City, State ZIP: MID	901	Company Name: TETIZA	Project Manager: MIKE
re) Re	nd relinquishment of samples cor the cost of samples and sha	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		50:1 1/6	50.1 1/6	5011 1/6	5011 1/6	Matrix	No 1	20	L. W.	Temp Blank: (es	Q	CONNER MOEHEING	CO'NM	25,5	4 y SWD #3		MIDLAND, TX 7970	W. WALL ST.	ZA TECHI	CARMONA
Received by: (Signature	constitutes a valid purchase or the constitutes a valid purchase or the constitutes and a charge of \$5 for each	8RCRA TCLP / SPL		16/20	120	1/6/20	1/6/20 (0	Date Time Sampled Sampled	Total Containers:	Correction Factor:	Thermometer ID	s) No Wet Ice:	Quote #:	Due Date:	Rush:	Routine	Turn	Email:	01			
1/6/	rder from client compan ity for any losses or exp sample submitted to Xe	13PPM Texas 11 .P 6010: 8RCRA S		0-1)	(0-1)	(0-1)	(0-()	Depth	f er of	~0.2 cor	40	No rs		9.		Code	Turn Around		City, State ZIP:	Address:	Company Name:	Bill to: (if different)
Date/Time /2020 /405	y to Xenco, its affiliates ar enses incurred by the clic nco, but not analyzed. Th	11 Al Sb As Ba Be Sb As Ba Be Cd (*	X X	× ×	X	Ch1 Bt6 TP+	Y	8	071										EOC	JAMES KEN
Relinquished by: (Signature)	ontractors. It assigns s th losses are due to circles will be enforced unle	B Cd Ca Cr Co Cu Fe Pb Mg Cr Co Cu Pb Mn Mo Ni Se Ag															ANALYSIS RE					大のとこのと
iture) Received by: (Signature)	terms and conditions nces beyond the control rously negotiated.	Mn Mo Ni K Se Ag TI U															REQUEST	Deliverables: EDD	Reporting:Level II Level I	State of Project:	Program: UST/PST PRP	Work
Signature) Date/Time		SiO2 Na Sr TI Sn U V Zn 1631/245.1/7470/7471:						Sample Comments	received by 4:00pm	TAT starts the day recevied by the lab.	Zn Acetate+ NaOH: Zn	HCL: HL	H2S04: H2	HNO3: HN	None: NO	MeOH: Me	Preservative Codes	ADaPT LJ Other:]	PRP Brownfields RRC Superfund	Work Order Comments

Lab

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Work Order #: 647999

Analyst:

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 01.06.2020 02.05.00 PM

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		4.6	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/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)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

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

Checklist completed by: Elizabeth McClellan Date: 01.06.2020	
--	--

PH Device/Lot#:



February 26, 2020

CLAIR GONZALES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: OH KAY SWD 3

Enclosed are the results of analyses for samples received by the laboratory on 02/25/20 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020 Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact Project Number: 212C - MD - 02041 Sample Received By: Tamara Oldaker

Project Location: EOG - EDDY CO NM

Sample ID: N 1 SW (H000600-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/26/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	195	97.6	200	1.88	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	214	107	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	100	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020 Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02041

Project Location: EOG - EDDY CO NM

Sample ID: S 1 SW (H000600-02)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	< 0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/26/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	195	97.6	200	1.88	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	214	107	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	99.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	105 9	42.2-15	6						

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Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 212C - MD - 02041 Sample Received By:

Project Location: EOG - EDDY CO NM

Sample ID: E 1 SW (H000600-03)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	99.1 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 %	6 42.2-15	6						

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Analytical Results For:

TETRA TECH
CLAIR GONZALES
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02041 Sample Received By: Tamara Oldaker

Analyzed By: CV

Project Location: EOG - EDDY CO NM

ma/ka

Sample ID: W 1 SW (H000600-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	98.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	102	% 42.2-15	6						

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Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 212C - MD - 02041

Project Location: EOG - EDDY CO NM

Sample ID: BH 1 (H000600-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	92.2 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.3	% 42.2-15	6						

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Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 212C - MD - 02041

Project Location: EOG - EDDY CO NM

Sample ID: BH 2 (H000600-06)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	< 0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	< 0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	92.7 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.4	% 42.2-15	6						

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Analytical Results For:

TETRA TECH
CLAIR GONZALES
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02041 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: EOG - EDDY CO NM

mg/kg

Sample ID: BH 3 (H000600-07)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	98.5	% 42.2-15	6						

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Analytical Results For:

TETRA TECH
CLAIR GONZALES
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02041 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: EOG - EDDY CO NM

mg/kg

Sample ID: BH 4 (H000600-08)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	92.1	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	93.7	% 42.2-15	6						

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Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 212C - MD - 02041

Project Location: EOG - EDDY CO NM

Sample ID: BH 5 (H000600-09)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050 0.050		02/26/2020 ND		1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	26/2020 ND		94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	2/26/2020 ND		91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	98.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 9	42.2-15	6						

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Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 212C - MD - 02041

Project Location: EOG - EDDY CO NM

Sample ID: BH 6 (H000600-10)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	97.9 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.3 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

TETRA TECH
CLAIR GONZALES
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02041 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: EOG - EDDY CO NM

mg/kg

Sample ID: BH 7 (H000600-11)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	98.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

TETRA TECH
CLAIR GONZALES
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/25/2020 Sampling Date: 02/25/2020

Reported: 02/26/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02041 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: EOG - EDDY CO NM

mg/kg

Sample ID: BH 8 (H000600-12)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. cit					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.86	93.0	2.00	4.46	
Toluene*	<0.050	0.050	02/26/2020	ND	1.88	94.1	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	1.89	94.4	2.00	4.79	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.47	91.2	6.00	4.76	
Total BTEX	<0.300	0.300	02/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/26/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	197	98.4	200	1.60	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	183	91.7	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					
Surrogate: 1-Chlorooctane	92.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.1	% 42.2-15	6						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Released to Imaging: 3/27/2023 2:48:28 PA

Page 16 of 16



March 06, 2020

CLAIR GONZALES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: OH KAY SWD 3

Enclosed are the results of analyses for samples received by the laboratory on 03/05/20 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CLAIR GONZALES
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

 Received:
 03/05/2020
 Sampling Date:
 03/05/2020

 Reported:
 03/06/2020
 Sampling Type:
 Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02041 Sample Received By: Tamara Oldaker

Project Location: EOG - EDDY CO NM

Sample ID: BOTTOM HOLE 1 (H000720-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2020	ND	1.80	89.9	2.00	10.5	
Toluene*	<0.050	0.050	03/05/2020	ND	1.79	89.6	2.00	10.9	
Ethylbenzene*	<0.050	0.050	03/05/2020	ND	1.82	90.9	2.00	10.8	
Total Xylenes*	<0.150	0.150	03/05/2020	03/05/2020 ND		87.8	6.00	10.7	
Total BTEX	<0.300	0.300	03/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/05/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2020	ND	210	105	200	0.805	
DRO >C10-C28*	<10.0	10.0	03/05/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/05/2020	ND					
Surrogate: 1-Chlorooctane	92.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.1 % 42.2-156		6						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/05/2020 Sampling Date: 03/05/2020

Reported: 03/06/2020 Sampling Type: Soil

Project Name: OH KAY SWD 3 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02041

Project Location: EOG - EDDY CO NM

Sample ID: BOTTOM HOLE 2 (H000720-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2020	ND	1.80	89.9	2.00	10.5	
Toluene*	<0.050 0.050		03/05/2020	ND	1.79	89.6	2.00	10.9	
Ethylbenzene*	<0.050	0.050	03/05/2020	ND	1.82	90.9	2.00	10.8	
Total Xylenes*	< 0.150	0.150	03/05/2020 ND		5.27	87.8	6.00	10.7	
Total BTEX	<0.300	0.300	03/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/05/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2020	ND	210	105	200	0.805	
DRO >C10-C28*	<10.0	10.0	03/05/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/05/2020	ND					
Surrogate: 1-Chlorooctane	78.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.0	% 42.2-15	6						

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with Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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	Relinquished by:		Relinquished by:	relinquisned by:							N	1	LAB #	Comments:	Invoice to:	(county, state)	rroject Name:	120	4
	: Date: Time:		Date:	TIME: IIME:							Pottom hole 2	Bottom hole 1	SAMPLE IDENTIFICATION	Colline 1	EOh- James Venn	Edde (0	Oh Key SLID 3	E06	Tetra Tech, I
ORIGII	Received by:		Received by:	Heceived by:							3.5.	3.5.20	VEAR: 2019 DATE	Sampler	cestal	Project #:		Site Manager:	Inc.
ORIGINAL COPY	d by:		d by:	aby:							2015:28	20 13:28	TIME	Sampler Signature:		2120		ager: <i>Class</i>	
	Date: T	\	Bate T	Date:							X	×	SOIL NATRIX	hus Flow		- MMD -		DIAM	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
	Time:		Time:	Time: 1530									HNO ₃ ICE None # CONTAINERS	S		02001		les	, 100 05 9 9
(Circle) HAND D	3.5	#//3	Sample Temperature	ONLY ONLY							NXX	Z X	TPH TX1005 (Ext to TPH 8015M (GRO - PAH 8270C	- DRO - ORO - N				(C	
HAND DELIVERED FEDEX			_	REMARK									Total Metals Ag As B TCLP Metals Ag As B TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B /	3a Cd Cr Pb Se				ANALYSIS	
UPS Tracking #:_	Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day (24 hr	s: STANDARD							X		GC/MS Semi. Vol. 8 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride					ANALYSIS REQUEST	
	RRP Report	,	1 48 hr 72 hr										Chloride Sulfate General Water Cher Anion/Cation Baland	CHARLES OF THE PARTY OF THE PAR	ched lis	st)		No	
Released to	Imagin	g: 3	/27/	2023 2	:48	:28	PM						Hold				-		

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

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 201165

CONDITIONS

Operator:	OGRID:
OWL SWD OPERATING, LLC	308339
20 Greenway Plaza	Action Number:
Houston, TX 77046	201165
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

C		Condition	Condition Date
_	hall	Closure previously approved on 8/25/2020 by Bradford Billings. Report not uploaded at that time.	3/27/2023