SITE INFORMATION

Report Type: Work Plan 2RP-5209

	Rep	ort Type:	Work Pla	n 2RP-	5209			
General Site Informa	tion:							
Site & Lease No:		SRO State C	Com #64					
Company:		COG Operat				-		
Section, Township a	nd Range	Unit E	Sec. 10	T 26S	R 28E			
Lease Number:		API No. 30-0						
County:		Eddy Count						
GPS:			32.057491			-104.	082026	
Surface Owner:		State		005 1144.14	0% 514	1 ()		
Directions:							/hites City Rd for 1.0 mi, se road for 0.20 miles to	
Release Data:								
Date Released:		1/10/2019						
Type Release:			Produced Water					
Source of Contaminat	ion:	Transfer Line						
Fluid Released: Fluids Recovered:		10 bbls 5 bbls	10 bbls					
	1 -	SIDUS						
Official Communicat								
Name:	Ike Tavarez				Clair Gonza	ales		
Company:	COG Operating, L				Tetra Tech			
Address:	One Concho Cente	er			901 West V	Vall Street		
	600 W. Illinois Ave	э.			Suite 100			
City:	Midland Texas, 79	0701			Midland, Te	xas		
Phone number:	<mark>(432) 686-3023</mark>				(432) 687-8	110		
Fax:	<mark>(432) 684-7137</mark>							
Email:	itavarez@conch	o.com			Clair.Gonz	ales@tetra	tech.com	

Site Characterization	
Depth to Groundwater:	>100'
Karst Potential:	Medium

Recommended Remedial Action Levels (RRALs)					
Benzene	Total BTEX	TPH (GRO+DRO+MRO)	Chlorides		
10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg		



April 8, 2019

Mr. Mike Bratcher Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Work Plan for the COG Operating, LLC, SRO State Com #64, Unit E, Section 10, Township 26 South, Range 28 East, Eddy County, New Mexico. 2RP-5209

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating, LLC (COG) to assess a release that occurred at the SRO State Com #64, Unit E, Section 10, Township 26 South, Range 28 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.057491°, -104.082026°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on January 10, 2019, and released approximately 10 barrels of produced water due to a hole in the thread adapter on the transfer line. A vacuum truck was dispatched to remove all freestanding fluids, recovering approximately 5 barrels of produced water. The release occurred in the pasture adjacent to the facility and impacted an area measuring approximately 18' x 140'. 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.

However, the site is located in a medium karst potential area. No water wells were listed within Section 10 on the New Mexico Office of the State Engineer's (NMOSE) database, the Geology and Groundwater Resources of Eddy County (Report 3), or the USGS National Water Information database. The nearest well is listed in Section 14 on the USGS database, approximately 1.0 mile southeast of the site, and has a reported depth to groundwater of 140' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is 50'-75' below surface. The groundwater data is shown 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 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 100 mg/kg (GRO+DRO+MRO). Additionally, the proposed RRAL for chlorides is 600 mg/kg.

Soil Assessment and Analytical Results

Tetra Tech personnel were onsite on February 21, 2019, to evaluate the release area. A total of three (3) boreholes (BH-1, BH-2, and BH-3) were installed in the release footprint to total depths ranging from 6'-7' to 39'-40' below surface. Additionally, four (4) horizontal samples (Horizontal South 1, Horizontal West 1, Horizontal West 2, and Horizontal North 1) were collected to define the horizontal extents of the release. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of the boring logs are included in Appendix C. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Bore Holes

Referring to Table 1, the areas of boreholes (BH-1, BH-2, and BH-3) did not show any benzene, total BTEX, or TPH concentrations above the laboratory reporting limits. The areas of boreholes (BH-2 and BH-3) showed chloride concentrations above the 600 mg/kg threshold in the shallow soils, with chloride highs of 714 mg/kg (BH-2) and 850 mg/kg (BH-3) at 0-1' below surface. The chloride concentrations in these areas then declined with depth to below the RRAL at 2'-3' (BH-2) and 4'-5' (BH-3). The area of borehole (BH-1) showed a chloride high of 7,020 mg/kg at 0-1', which declined with depth to below the RRAL at 9'-10' with a chloride concentration of 333 mg/kg. However, the chloride concentrations then increased with depth to 5,900 mg/kg at 24'-25' before declining to 140 mg/kg at 34'-35' and 243 mg/kg at 39'-40' below surface.

Horizontals

Referring to Table 1, none of the horizontal samples collected showed benzene, total BTEX, TPH, or chloride concentrations above the RRALs.

Work Plan

Based on the laboratory results, COG proposes to remove the chloride impacted soils as shown on Figure 4 and highlighted (green) on Table 1. Due to access issues and safely concerns, the proposed excavation will be performed to remove the impacted soil to the maximum extent practicable. The areas of borehole (BH-2) will be excavated to 1'-2' and the



area of borehole (BH-3) will be excavated to 2'-3' below surface. Additionally, the area of borehole (BH-1) will be excavated to 4'-5' below surface.

Variance

Per rule 19.15.29.14, COG requests a variance to install a 20-mil liner at 4.0' below surface in the areas of borehole (BH-1) to prevent vertical migration of the deeper chloride concentrations detected. Prior to the liner installation, composite sidewall samples will be collected every 200 square feet, to be representative of the release area, for documentation purposes.

Once completed, the excavated areas will then be backfilled with clean material to surface grade. All the excavated material will be transported offsite for proper disposal. COG estimates approximately 480 cubic yards will be excavated and will be implemented within ninety (90) days of the work plan being approved.

Sampling Plan

Five-point composite bottom hole confirmation samples will be collected in the areas of borehole (BH-2 and BH-3) sidewall confirmation samples will be collected in the areas of borehole (BH-1, BH-2, and BH-3) every 200 square feet in order to ensure proper removal of the impacted areas. The proposed excavation depths may not be reached due to wall caveins and safety concerns for onsite personnel. Also, impacted soil around oil and gas equipment, structures or lines may not be viable or practicable to be removed due to safely concerns for on-site personnel. As such, COG will excavate the impacted soils to the maximum extent practicable.

Conclusion

Upon completion, a final report detailing the remediation activities will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call at (432) 682-4559.

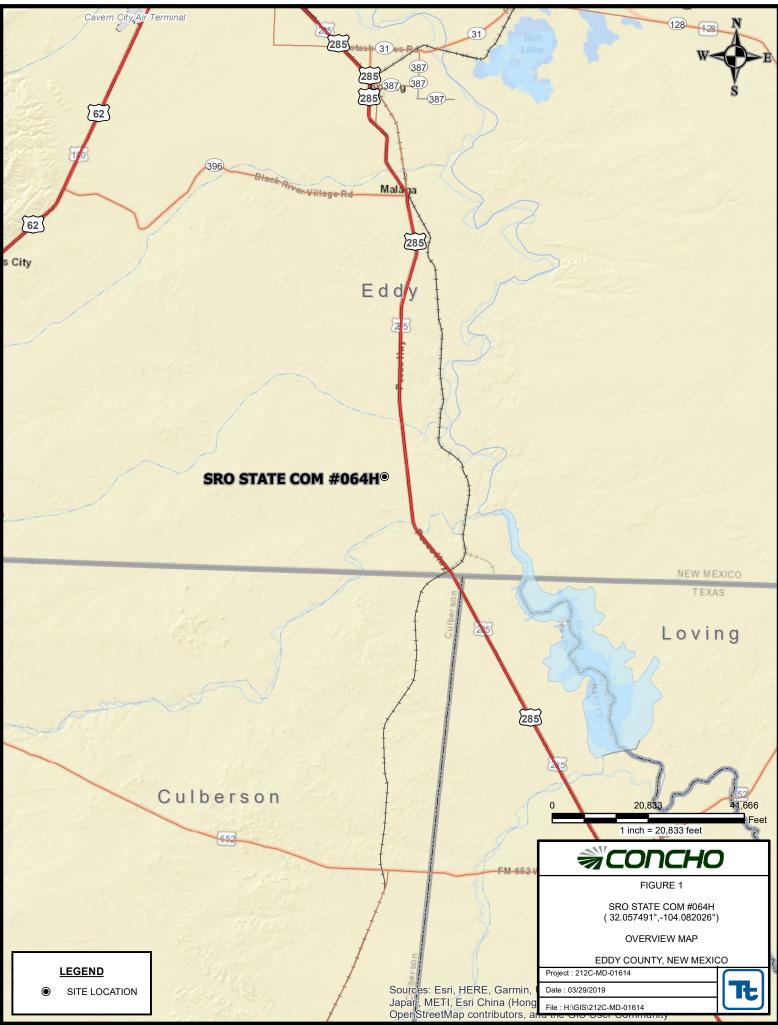
Respectfully submitted, TETRA TECH

Clair Gonzales, Project Manager

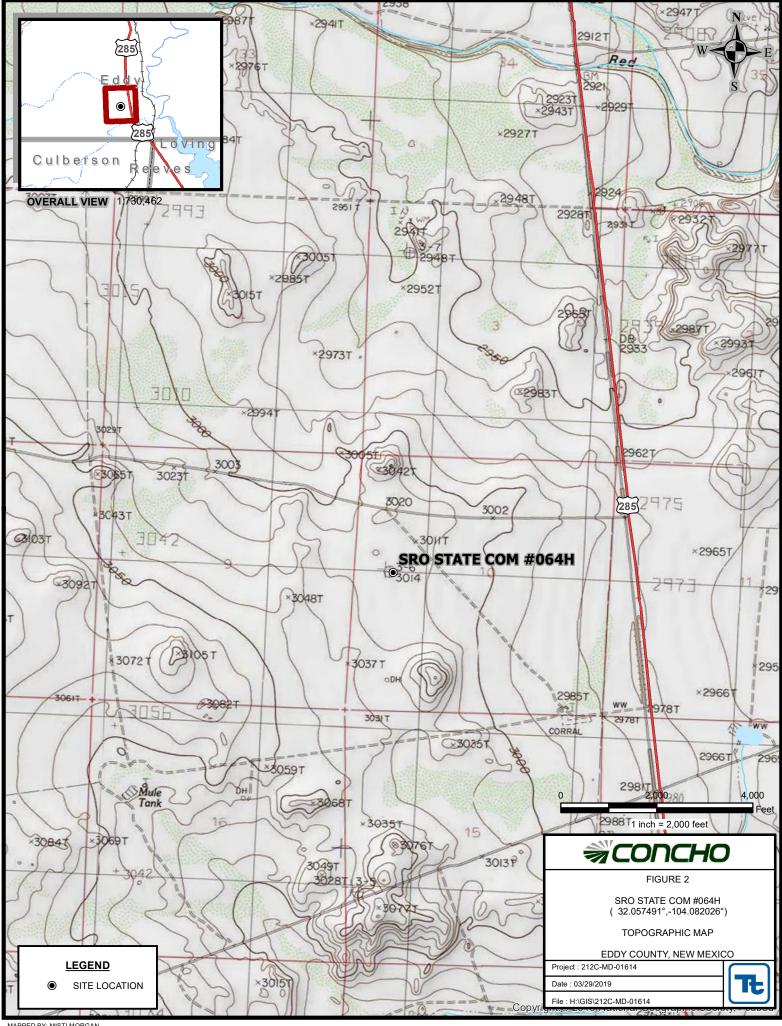
cc: Ike Tavarez - COG Dakota Neel - COG Rebecca Haskell - COG Sheldon Hitchcock - COG DeAnn Grant - COG

Mike Carmona, Geologist

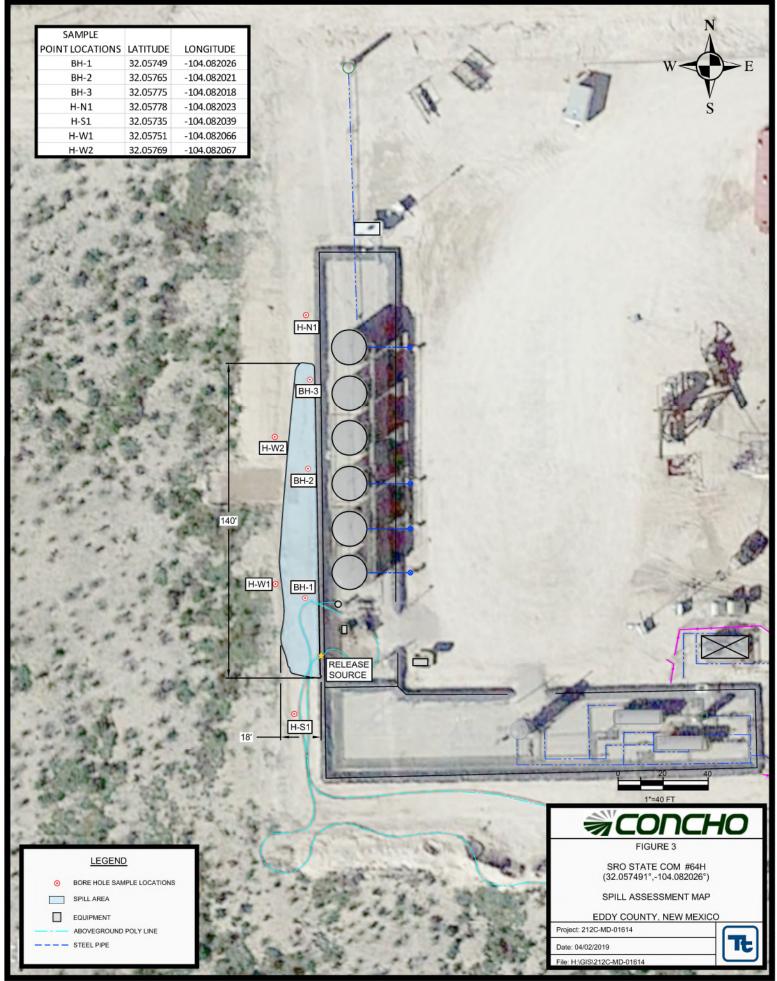
Figures



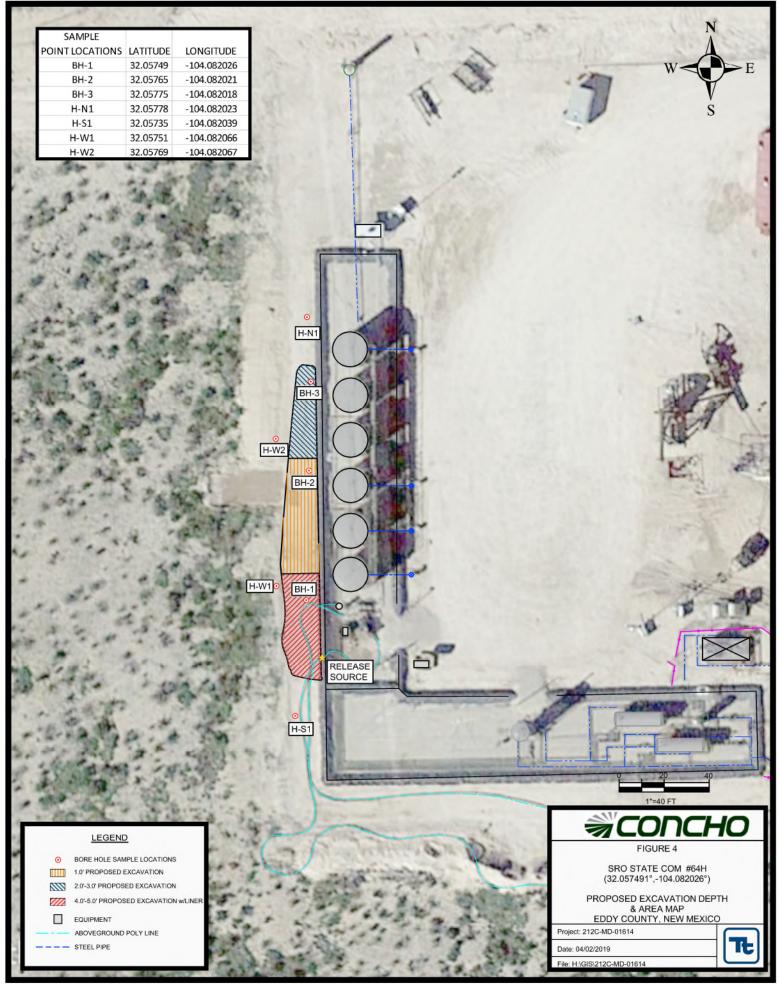
MAPPED BY: MISTI MORGAN



MAPPED BY: MISTI MORGAN



Drawn By: MISTI MORGAN



Drawn By: MISTI MORGAN

Tables

Table 1 COG SRO State Com #64 Eddy County, New Mexico

Sample ID	Sample Date	Sample	Sample Soil Stat		atus TPH (mg/kg)			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride	
		Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-1	2/21/2019	0-1	Х		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	7,020
	"	2-3	Х		<15.0	<15.0	<15.0	<15.0	< 0.00200	< 0.00200	<0.00200	<0.00200	<0.00200	6,990
	"	4-5	Х		-	-	-	-	-	-	-	-	-	5,790
	"	6-7	Х		-	-	-	-	-	-	-	-	-	5,810
	=	9-10	Х		-	-	-	-	-	-	-	-	-	333
	"	14-15	Х		-	-	-	-	-	-	-	-	-	712
	"	19-20	Х		-	-	-	-	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,740
	"	24-25	Х		-	-	-	-	-	-	-	-	-	5,900
	"	29-30	Х		-	-	-	-	-	-	-	-	-	1,690
	-	34-35	Х		-	-	-	-	-	-	-	-	-	140
	"	39-40	Х		-	-	-	-	-	-	-	-	-	243
BH-2	2/21/2019	0-1	Х		<15.0	<15.0	<15.0	<15.0	< 0.00202	< 0.00202	<0.00202	< 0.00202	< 0.00202	714
	-	2-3	Х		<15.0	<15.0	<15.0	<15.0	< 0.00199	<0.00199	<0.00199	<0.00199	<0.00199	229
	-	4-5	Х		-	-	-	-	-	-	-	-	-	421
	"	6-7	Х		-	-	-	-	-	-	-	-	-	<49.5
	=	9-10	Х		-	-	-	-	-	-	-	-	-	67.0
BH-3	2/21/2019	0-1	Х		<14.9	<14.9	<14.9	<14.9	< 0.00200	< 0.00200	<0.00200	< 0.00200	< 0.00200	850
	"	2-3	Х		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	619
	"	4-5	Х		-	-	-	-	-	-	-	-	-	329
		6-7	Х		-	-	-	-	-	-	-	-	-	522
Horizontal South 1	2/21/2019	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	224
Horizontal West 1	2/21/2019	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	202
Horizontal West 2	2/21/2019	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	57.6
Horizontal North 1	2/21/2019	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	122

(-)

Not Analyzed

Proposed Excavation Depth

Proposed Liner

Photos

COG Operating LLC SRO State Com #64 Eddy County, New Mexico



View South – Area of BH-1



View West – Area of BH-2

COG Operating LLC SRO State Com #64 Eddy County, New Mexico



View Northwest – Area of BH-3

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

32.05748

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	2RP-5209
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jennifer Knowlton	Contact Telephone	(575) 748-1570
Contact email	JKnowlton@concho.com	Incident # (assigned by OCD)	
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

Location of Release Source

Latitude

-104.08201

Longitude ______ (NAD 83 in decimal degrees to 5 decimal places)

Site Name SRO State Com #064H				Site Type	Flowline	
Date Release Discovered January 10, 2019					API# (if applicable)	30-015-42130
Unit Letter	Section	Township	Range		County	
		1	0		5	
E	10	26S	28E		Eddy	

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Materia	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
a (b) 1		

Cause of Release

The release was caused by a hole in the thread adapter on the transfer line. The thread adapter is being replaced. The release was in the pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities. Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5209
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Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
`` ,	
🗌 Yes 🔳 No	
If VES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
II I LS, was infinediate if	the given to the OCD: By whom: To whom: when and by what means (phone, email, etc):

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via 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 not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: DeAnn Grant	Title: HSE Administrative Assistant
Signature: Deann Opeanst	Date: 1/18/2019
email: agrant@concho.com	Telephone: (432) 253-4513
	-
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-5209	
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?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔽 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔽 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔽 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔽 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔽 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔽 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗹 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗹 No
Did the release impact areas not on an exploration, development, production, or storage site?	🖌 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form C-141	State of New Mexico		Incident ID	
Page 4	Oil Conservation Division		District RP	2RP-5209
			Facility ID	
			Application ID	
regulations all operators ar public health or the enviro failed to adequately invest	Y DZ	ifications and perform co OCD does not relieve the eat to groundwater, surfa	prrective actions for rele e operator of liability sh ice water, human health liance with any other fe upervisor	eases which may endanger ould their operations have or the environment. In
OCD Only				
Received by:		Date:		

Form C-141 Page 5 State of New Mexico Oil Conservation Division

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

responsibility for compliance with any other federal, state, or local laws and/or regulations.

Incident ID	
District RP	2RP-5209
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Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points V Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of

Printed Name: Ike Tavarez	Title: Senior HSE Supervisor
Signature:	Date: <u>4-9-19</u>
email: itavarez@concho.com	Telephone: <u>432-685-2573</u>
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

Appendix B

Water Well Data Average Depth to Groundwater (ft) COG - SRO State #64 Eddy County, New Mexico

	25 \$	South		27 East					
6	5	4	3	2	1				
7	8	9	10	11	12 92				
18	17	16	15	14	13				
19	20	21	22	23	24				
30	29	28	27	26	25				
31	32	33 19	34	35	36				
26 South			:	27 Eas	t				

	20.00	Juin	21 2031					
6	5	4	3	2	1			
	12							
7	8	9	10	11	12			
18	17	16	15	14	13 35			
19	20	21	22 50	23	24			
30	29	28	27	26	25			
31	32	33	34	35	36			

	25 Sc	outh	28	East	
6	5	4 35	3 32	2	1
	59				Site
7	8	9	10	11	12
18	17	16	15 <mark>48</mark>	14	13
67			49		
19	20	21	22	23	24
	96				
30	29	28	27	26 40	25
	15	90			ζ
31	32	33	34	35	36
					40

	26 Sc	outh	28		
6	5	4	3	2 120	1 کر
7	8	9	10	11	12 100
18	17	16	15	14 140	13 56
19	20	21	22 120	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	25 So	outh	29		
6 40	5	4	3	2	1
	8	9	10 40	11	12
لـر 18	17	16	15 <mark>60</mark>	14	13
19	20	21	22	23	24
30 <mark>30</mark>	29	28	27	26	25
31	32 115	33	34	35	36

	26 So	outh	29		
6	5 78	4	3	2	1
7	8	9	10	11	12
18	17	16 125	15	14	13
19	20	21	22 57 69	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
- 121 Abandoned Waterwell (recently measured)

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	(R=POD replaced, O=orpha C=the fil	ined,		uarte	ers a	are	1=NW	/ 2=NI	E 3=SW	4=SE)				
water right file.)	closed)		(qı	uarte	ers a	are	smalle	st to la	argest)	(NAD8	33 UTM in meters)	(In feet)	
POD Number	Code	POD Sub- basin	County		Q 16		Sec	Tws	Rng	x	Y De	othWellDept		Vater olumn
<u>C 01668</u>		CUB	ED				12	26S	28E	589957	3546554*	250	100	150
<u>C 02160</u>		CUB	ED	4	1	2	14	26S	28E	589243	3546044*	300	120	180
<u>C 02160 S</u>		CUB	ED	1	1	2	14	26S	28E	589043	3546244*	300	120	180
<u>C 02160 S2</u>		CUB	ED	1	1	2	14	26S	28E	589043	3546244*	300	120	180
<u>C 02160 S3</u>		CUB	ED	2	2	1	14	26S	28E	588834	3546241*	300	120	180
<u>C 02160 S4</u>		CUB	ED	2	2	1	14	26S	28E	588834	3546241*	300	120	180
C 02160 S5		CUB	ED	1	1	1	14	26S	28E	588225	3546237*	300	120	180
<u>C 02160 S6</u>		CUB	ED	3	3	1	14	26S	28E	588232	3545635*	300	120	180
C 02160 S7		CUB	ED	3	3	1	22	26S	28E	586638	3543998*	300	120	180
C 02160 S8		CUB	ED	2	3	3	12	26S	28E	590056	3546653*	200	120	80
C 02160 S9		CUB	ED	3	3	2	02	26S	28E	589020	3548868*	300	120	180
<u>C 02477</u>		CUB	ED		1	1	03	26S	28E	586687	3549347*	150		
<u>C 02478</u>		CUB	ED		2	1	05	26S	28E	583848	3549325*	100		
<u>C 02479</u>		CUB	ED		4	4	10	26S	28E	587909	3546534*	200		
<u>C 02480</u>		CUB	ED		4	4	10	26S	28E	587909	3546534*	150		
<u>C 02481</u>		CUB	ED		1	1	14	26S	28E	588326	3546138*	200		
<u>C 02894</u>		С	ED	2	2	3	12	26S	28E	590458	3547061*	240		
<u>C 02924</u>		С	ED	1	3	2	11	26S	28E	589032	3547451*			
<u>C 04022 POD1</u>		CUB	ED	4	4	2	15	26S	28E	588082	3545647	220	175	45
<u>C 04022 POD2</u>		CUB	ED	2	2	2	27	26S	28E	588106	3543082	250	145	105
											Average Depth to Wa	iter:	124 fee	et
											M inimum D	epth:	100 fee	et
											M aximum De	epth:	175 fee	et
Record Count: 20														

PLSS Search:

...

Township: 26S Range: 28E

*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.

2/27/19 2:14 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

	USGS	Water	Resources
--	------	-------	------------------

 Data Category:
 Geographic Area:

 Groundwater
 New Mexico
 GO

V

GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

site_no list =

• 320309104020401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320309104020401 26S.28E.14.11111

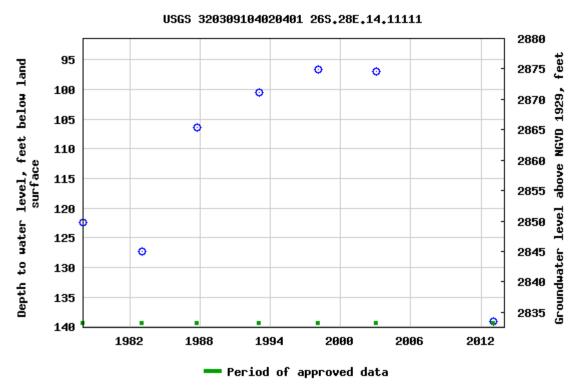
Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011

Latitude 32°02'59.0", Longitude 104°03'58.7" NAD83 Land-surface elevation 2,972.00 feet above NGVD29 This well is completed in the Rustler Formation (312RSLR) 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.

Download a presentation-guality graph

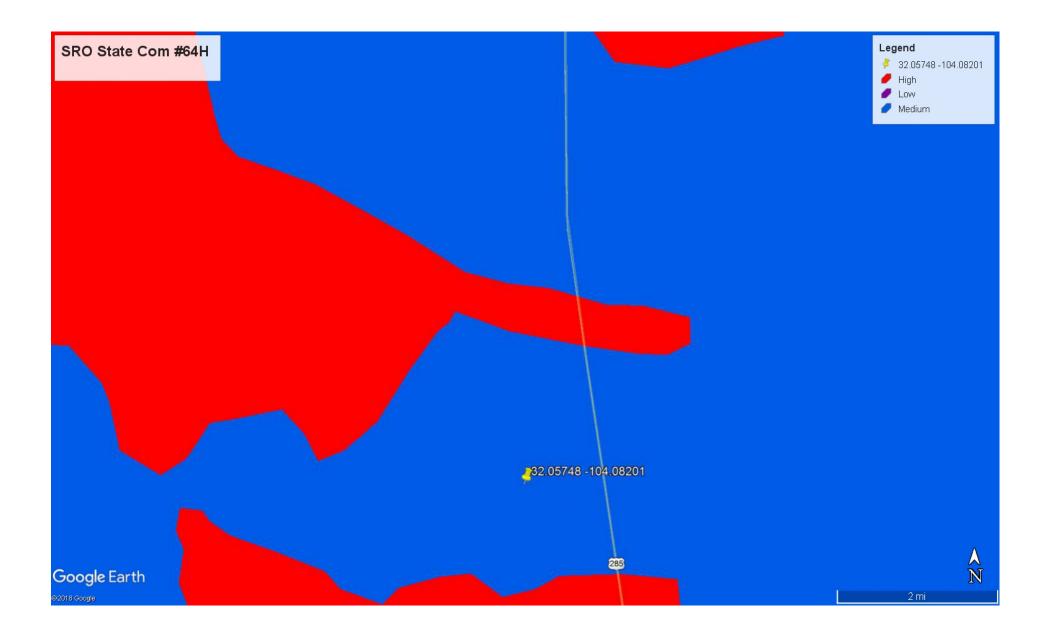
Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices U.S. Department of the Interior U.S. Geological Survey

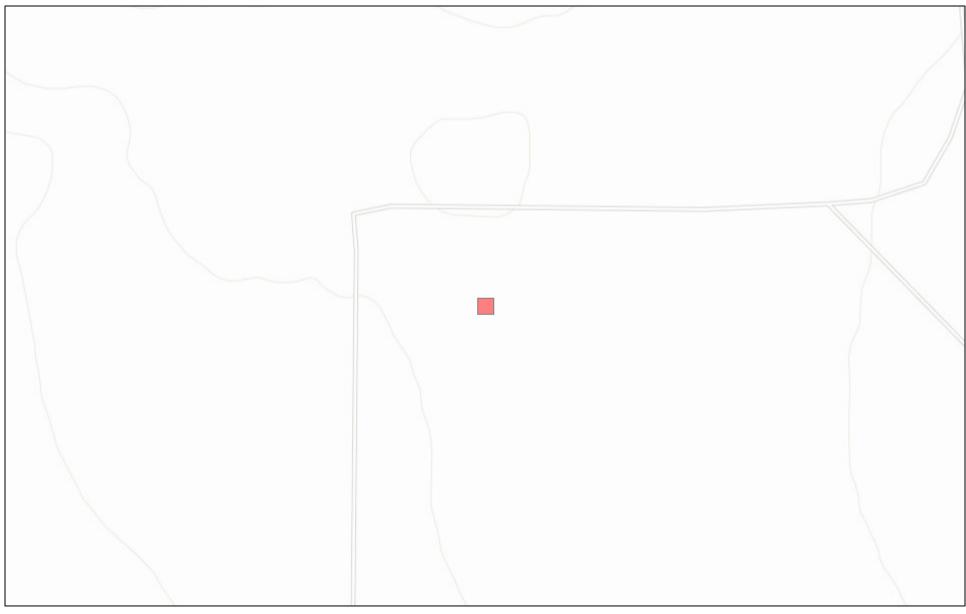
USA.gov

Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

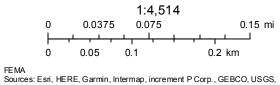
Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2019-03-22 11:39:04 EDT 1.16 0.95 nadww01



New Mexico NFHL Data



March 22, 2019



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Appendix C

Analytical Report 615456

for Tetra Tech- Midland

Project Manager: Clair Gonzales

SRO State Com #64

212C-MD-01614

27-FEB-19

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) 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), North Carolina (483) Xenco-Lakeland: Florida (E84098)



27-FEB-19



Reference: XENCO Report No(s): 615456 SRO State Com #64 Project Address: Eddy County, New Mexico

Clair Gonzales:

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) 615456. 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. 615456 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,

Jession KRAMER

Jessica Kramer Project Assistant

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Sample Id BH-1 (0'-1') BH-1 (2'-3') BH-1 (4'-5') BH-1 (6'-7') BH-1 (9'-10') BH-1 (14'-15') BH-1 (19'-20') BH-1 (24'-25') BH-1 (29'-30') BH-1 (34'-35') BH-1 (39'-40') BH-2 (0'-1') BH-2 (2'-3') BH-2 (4'-5') BH-2 (6'-7') BH-2 (9'-10') BH-3 (0'-1') BH-3 (2'-3') BH-3 (4'-5') BH-3 (4'-7') Horizontal-South 1 Horizontal-West 1 Horizontal West-2 Horizontal- North 1

Sample Cross Reference 615456



Tetra Tech- Midland, Midland, TX

SRO State Com #64

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	02-21-19 00:00		615456-001
S	02-21-19 00:00		615456-002
S	02-21-19 00:00		615456-003
S	02-21-19 00:00		615456-004
S	02-21-19 00:00		615456-005
S	02-21-19 00:00		615456-006
S	02-21-19 00:00		615456-007
S	02-21-19 00:00		615456-008
S	02-21-19 00:00		615456-009
S	02-21-19 00:00		615456-010
S	02-21-19 00:00		615456-011
S	02-21-19 00:00		615456-012
S	02-21-19 00:00		615456-013
S	02-21-19 00:00		615456-014
S	02-21-19 00:00		615456-015
S	02-21-19 00:00		615456-016
S	02-21-19 00:00		615456-017
S	02-21-19 00:00		615456-018
S	02-21-19 00:00		615456-019
S	02-21-19 00:00		615456-020
S	02-21-19 00:00		615456-021
S	02-21-19 00:00		615456-022
S	02-21-19 00:00		615456-023
S	02-21-19 00:00		615456-024

Page	3	of	25



CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: SRO State Com #64

Project ID: 212C-MD-01614 Work Order Number(s): 615456 Report Date: 27-FEB-19 Date Received: 02/22/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3080460 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Clair Gonzales

Eddy County, New Mexico

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 615456

Tetra Tech- Midland, Midland, TX

Project Name: SRO State Com #64

Date Received in Lab: Fri Feb-22-19 10:50 am Report Date: 27-FEB-19 Project Manager: Jessica Kramer

[
	Lab Id:	615456-0	001	615456-	002	615456-0	03	615456-0	04	615456-0	005	615456-0	06
Analysis Requested	Field Id:	BH-1 (0'-1')		BH-1 (2'-3')		BH-1 (4'-	BH-1 (4'-5')		7')	BH-1 (9'-10')		BH-1 (14'-15')	
Analysis Kequestea	Depth:												
	Matrix:	SOIL		SOIL	,	SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-21-19 00:00		Feb-21-19	00:00	Feb-21-19 (00:00	Feb-21-19 (00:00	Feb-21-19 (00:00	Feb-21-19 (00:00
BTEX by EPA 8021B	Extracted:	Feb-26-19	13:45	Feb-26-19	13:45								
	Analyzed:	Feb-26-19	15:44	Feb-26-19	17:56								
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		<0.00201 0.00201		< 0.00200	0.00200								
Toluene		< 0.00201	0.00201	< 0.00200	0.00200								
Ethylbenzene		< 0.00201	0.00201	< 0.00200	0.00200								
m,p-Xylenes		< 0.00402	0.00402	< 0.00401	0.00401								
o-Xylene		< 0.00201	0.00201	< 0.00200	0.00200								
Total Xylenes		< 0.00201	0.00201	< 0.00200	0.00200								
Total BTEX		< 0.00201	0.00201	< 0.00200	0.00200								
Chloride by EPA 300	Extracted:	Feb-22-19	14:40	Feb-22-19 14:40		Feb-22-19 1	4:40	Feb-22-19 1	4:40	Feb-22-19 14:40		Feb-22-19 14:40	
	Analyzed:	Feb-22-19	17:03	Feb-22-19 17:23		Feb-22-19 17:29 Feb-22-19 17:36		Feb-22-19 17:42		Feb-22-19 17:48			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		7020	49.6	6990	49.7	5790	49.9	5810	100	333	50.0	712	25.0
TPH by SW8015 Mod	Extracted:	Feb-22-19	14:00	Feb-22-19	14:00								
	Analyzed:	Feb-23-19 01:43		Feb-23-19 02:42									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0								
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0								
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0								
Total TPH		<15.0	15.0	<15.0	15.0								

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fession kenner

Jessica Kramer Project Assistant

Page 5 of 25



Certificate of Analysis Summary 615456

Tetra Tech- Midland, Midland, TX Project Name: SRO State Com #64



Project Id:212C-MD-01614Contact:Clair GonzalesProject Location:Eddy County, New Mexico

Date Received in Lab:Fri Feb-22-19 10:50 amReport Date:27-FEB-19Project Manager:Jessica Kramer

	1												
	Lab Id:	615456-0	007	615456-0	08	615456-0	09	615456-010		615456-011		615456-0	012
Analysis Requested	Field Id:	BH-1 (19'-20')		BH-1 (24'-25')		BH-1 (29'-30')		BH-1 (34'-	35')	BH-1 (39'-40')		BH-2 (0'	-1')
marysis requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-21-19	00:00	Feb-21-19 (00:00	Feb-21-19 (00:00	Feb-21-19	00:00	Feb-21-19 (00:00	Feb-21-19	00:00
BTEX by EPA 8021B	Extracted:	Feb-26-19	13:45									Feb-26-19	13:45
	Analyzed:	Feb-26-19	20:07									Feb-26-19	20:26
	Units/RL:	mg/kg	RL									mg/kg	RL
Benzene		<0.00199 0.00199										< 0.00202	0.00202
Toluene		< 0.00199	0.00199									< 0.00202	0.00202
Ethylbenzene		< 0.00199	0.00199									< 0.00202	0.00202
m,p-Xylenes		< 0.00398	0.00398									< 0.00403	0.00403
o-Xylene		< 0.00199	0.00199									< 0.00202	0.00202
Total Xylenes		< 0.00199	0.00199									< 0.00202	0.00202
Total BTEX		< 0.00199	0.00199									< 0.00202	0.00202
Chloride by EPA 300	Extracted:	Feb-22-19	14:40	Feb-22-19 14:40		Feb-22-19 1	4:40	Feb-22-19	14:40	Feb-22-19 14:40		Feb-22-19 14:40	
	Analyzed:	Feb-22-19	18:13	Feb-22-19 18:19		Feb-22-19 18:39		Feb-22-19 18:45		Feb-22-19 16:15		Feb-22-19 18:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3740	24.9	5900	49.9	1690	25.0	140	24.8	243	4.97	714	24.8
TPH by SW8015 Mod	Extracted:											Feb-22-19	14:00
	Analyzed:											Feb-23-19	03:01
	Units/RL:											mg/kg	RL
Gasoline Range Hydrocarbons (GRO)												<15.0	15.0
Diesel Range Organics (DRO)												<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)												<15.0	15.0
Total TPH												<15.0	15.0

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fession kramer

Jessica Kramer Project Assistant



Certificate of Analysis Summary 615456

Tetra Tech- Midland, Midland, TX Project Name: SRO State Com #64



Project Id:212C-MD-01614Contact:Clair GonzalesProject Location:Eddy County, New Mexico

Date Received in Lab:Fri Feb-22-19 10:50 amReport Date:27-FEB-19Project Manager:Jessica Kramer

	Lab Id:	615456-0	112	615456-0	1.4	615456-0	1.5	615456-0	16	(1545()	17	(1545()	210
										615456-017		615456-018	
Analysis Requested	Field Id:	BH-2 (2'-3')		BH-2 (4'-5')		BH-2 (6'-7')		BH-2 (9'-	10')	BH-3 (0'-1')		BH-3 (2'	-3')
	Depth:												
	Matrix:	SOIL	SOIL			SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-21-19	00:00	Feb-21-19 (00:00	Feb-21-190	0:00	Feb-21-19 (00:00	Feb-21-19	00:00	Feb-21-19	00:00
BTEX by EPA 8021B	Extracted:	Feb-26-19	13:45				ľ			Feb-26-19	13:45	Feb-26-19	13:45
	Analyzed:	Feb-26-19	21:04							Feb-26-19	21:23	Feb-26-19	21:42
	Units/RL:	mg/kg	RL							mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00200	0.00200
Toluene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00200	0.00200
Ethylbenzene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00200	0.00200
m,p-Xylenes		< 0.00398	0.00398							< 0.00399	0.00399	< 0.00401	0.00401
o-Xylene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00200	0.00200
Total Xylenes		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00200	0.00200
Total BTEX		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Feb-22-19	14:40	Feb-22-19 14:40		Feb-22-19 14:40 Feb-2		Feb-22-19 1	4:40	Feb-22-19 14:40		Feb-22-19 15:10	
	Analyzed:	Feb-22-19	18:58	Feb-22-19 17:54		Feb-22-19 19:04		Feb-22-19 19:10		Feb-22-19 19:16		Feb-22-19 21:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		229	4.95	421	5.00	<49.5	49.5	67.0	25.0	850	25.0	619	24.9
TPH by SW8015 Mod	Extracted:	Feb-22-19	14:00							Feb-22-19	14:00	Feb-22-19	14:00
	Analyzed:	Feb-23-19 03:21								Feb-23-19	03:41	Feb-23-19	04:01
	Units/RL:	mg/kg	RL							mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0							<14.9	14.9	<14.9	14.9
Diesel Range Organics (DRO) <15		<15.0	15.0							<14.9	14.9	<14.9	14.9
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0							<14.9	14.9	<14.9	14.9
Total TPH		<15.0	15.0							<14.9	14.9	<14.9	14.9

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fession kenner

Jessica Kramer Project Assistant



Certificate of Analysis Summary 615456

Tetra Tech- Midland, Midland, TX Project Name: SRO State Com #64



Project Id:212C-MD-01614Contact:Clair GonzalesProject Location:Eddy County, New Mexico

Date Received in Lab:Fri Feb-22-19 10:50 amReport Date:27-FEB-19Project Manager:Jessica Kramer

	Lab Id:	615456-019	615456-020	615456-021	615456-022	615456-023	615456-024	
Analysis Requested	Field Id:	BH-3 (4'-5')	BH-3 (4'-7')	Horizontal-South 1	Horizontal- West 1	Horizontal West-2	Horizontal- North 1	
Analysis Kequeslea	Depth:							
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Feb-21-19 00:00	Feb-21-19 00:00	Feb-21-19 00:00	Feb-21-19 00:00	Feb-21-19 00:00	Feb-21-19 00:00	
BTEX by EPA 8021B	Extracted:			Feb-26-19 13:45	Feb-26-19 13:45	Feb-26-19 13:45	Feb-26-19 13:45	
	Analyzed:			Feb-26-19 22:01	Feb-26-19 22:20	Feb-26-19 22:39	Feb-26-19 22:58	
	Units/RL:			mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene				<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	
Toluene				<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	
Ethylbenzene				<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	
m,p-Xylenes				<0.00398 0.00398	<0.00402 0.00402	<0.00399 0.00399	<0.00398 0.00398	
o-Xylene				<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	
Total Xylenes				<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	
Total BTEX				<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	

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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fession kramer

Jessica Kramer Project Assistant



Certificate of Analysis Summary 615456

Tetra Tech- Midland, Midland, TX Project Name: SRO State Com #64



Project Id:212C-MD-01614Contact:Clair GonzalesProject Location:Eddy County, New Mexico

Date Received in Lab:Fri Feb-22-19 10:50 amReport Date:27-FEB-19Project Manager:Jessica Kramer

	Lab Id:	615456-0)19	615456-0)20	615456-0	21	615456-0	22	615456-0	23	615456-0	24
An alusia Doguostod	Field Id:	BH-3 (4'-	5')	BH-3 (4'-	-7')	Horizontal-So	outh 1	Horizontal- V	Vest 1	Horizontal W	Vest-2	Horizontal- N	orth 1
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-21-19 (00:00	Feb-21-19	00:00	Feb-21-190	0:00	Feb-21-19 (00:00	Feb-21-19 (00:00	Feb-21-19 0	00:00
Chloride by EPA 300	Extracted:	Feb-22-19	15:10	Feb-22-19	15:10	Feb-22-19 1	5:10	Feb-22-19 1	5:10	Feb-22-19 1	5:10	Feb-22-19 1	5:10
	Analyzed:	Feb-22-19	21:27	Feb-22-19	21:33	Feb-22-19 2	1:40	Feb-22-19 2	2:00	Feb-22-19 2	2:06	Feb-22-19 2	2:12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		329	49.9	522	50.0	112	5.00	34.3	5.00	93.2	5.00	134	4.96
TPH by SW8015 Mod	Extracted:					Feb-22-19 1	4:00	Feb-22-19 1	4:00	Feb-22-19 1	4:00	Feb-22-19 1	4:00
	Analyzed:					Feb-23-19 0	4:21	Feb-23-19 0	4:40	Feb-23-19 (05:00	Feb-23-19 0	5:20
	Units/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
Diesel Range Organics (DRO)						<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)						<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

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

fession kenner

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 LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory 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



Project Name: SRO State Com #64

Work Orde Lab Batch #:		Sample: 615456-001 / SMP	Batc	-	: 212C-MD-0 : Soil		
U nits:	mg/kg	Date Analyzed: 02/23/19 01:43	su	JRROGATE R	ECOVERY	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chlorooctane	2		98.6	100	99	70-135	
o-Terphenyl			48.7	50.0	97	70-135	
Lab Batch #:	3080227	Sample: 615456-002 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/23/19 02:42	SU	JRROGATE R	ECOVERY	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane		Analytes	99.4	99.7	100	70-135	
o-Terphenyl			49.0	49.9	98	70-135	
Lab Batch #:	3080227	Sample: 615456-012 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/23/19 03:01	su	JRROGATE R	ECOVERYS	STUDY	
		oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
_		Analytes			[D]		
1-Chlorooctane	•		98.0	100	98	70-135	
o-Terphenyl			48.2	50.0	96	70-135	
Lab Batch #:	3080227	Sample: 615456-013 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/23/19 03:21	SU	JRROGATE R	ECOVERY	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane	e	-	98.8	99.8	99	70-135	
o-Terphenyl			49.0	49.9	98	70-135	
Lab Batch #:	3080227	Sample: 615456-017 / SMP	Batc	h: 1 Matrix	: Soil	1	<u> </u>
Units:	mg/kg	Date Analyzed: 02/23/19 03:41	SU	JRROGATE R	ECOVERYS	STUDY	
		oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chlorooctane	e		97.3	99.6	98	70-135	
o-Terphenyl			48.4	49.8	97	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



Project Name: SRO State Com #64

Work Orde Lab Batch #:		Sample: 615456-018 / SMP	Batc		: 212C-MD-0 : Soil		
U nits:	mg/kg	Date Analyzed: 02/23/19 04:01	SU	URROGATE R	ECOVERY S	STUDY	
	TPH I	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	•		96.9	99.6	97	70-135	
o-Terphenyl			48.1	49.8	97	70-135	
Lab Batch #:	3080227	Sample: 615456-021 / SMP	Bate	ch: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/23/19 04:21	SU	URROGATE R	ECOVERY S	STUDY	
	TPH I	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	<u></u>	Analytes	97.7	99.9	98	70-135	
o-Terphenyl			48.0	50.0	96	70-135	
Lab Batch #:	3080227	Sample: 615456-022 / SMP	Bate			10 155	
Units:	mg/kg	Date Analyzed: 02/23/19 04:40		URROGATE R		STUDY	
	TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	•		95.8	99.8	96	70-135	
o-Terphenyl			47.1	49.9	94	70-135	
Lab Batch #:	3080227	Sample: 615456-023 / SMP	Bato	ch: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/23/19 05:00	SU	URROGATE R	ECOVERY S	STUDY	
	TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	;		97.7	99.7	98	70-135	
o-Terphenyl			47.9	49.9	96	70-135	
Lab Batch #:	3080227	Sample: 615456-024 / SMP	Bate	ch: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/23/19 05:20	SU	URROGATE R	ECOVERY S	STUDY	
	TPH I	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane			06.0	99.9		70-135	
	5		96.9		97		
o-Terphenyl			47.3	50.0	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



Project Name: SRO State Com #64

nite	malka	Date Analyzed: 02/26/19 15:44	0		ECOUPDE		
Units:	mg/kg	Date Analyzed: 02/20/19 15:44	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorob	enzene		0.0339	0.0300	113	70-130	
4-Bromofluor	obenzene		0.0318	0.0300	106	70-130	
Lab Batch #	: 3080460	Sample: 615456-002 / SMP	Batcl	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/26/19 17:56	SU	RROGATE R	ECOVERY	STUDY	
		X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorot			0.0346	0.0300	115	70-130	
4-Bromofluor			0.0346	0.0300	115	70-130	
Lab Batch #	: 3080460	Sample: 615456-007 / SMP	Batcl			10 100	
Units:	mg/kg	Date Analyzed: 02/26/19 20:07		RROGATE R		STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	[]	[2]	[D]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1,4-Difluorob	enzene		0.0341	0.0300	114	70-130	
4-Bromofluor	obenzene		0.0324	0.0300	108	70-130	
Lab Batch #	: 3080460	Sample: 615456-012 / SMP	Batcl	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/26/19 20:26	SU	RROGATE R	ECOVERYS	STUDY	
		A polytos	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1.4-Difluorob		Analytes	0.0245	0.0200		70.120	
4-Bromofluor			0.0345	0.0300	115	70-130	
Lab Batch #		Sample: 615456-013 / SMP	0.0346 Batcl	0.0300 h: 1 Matrix	115	70-130	
Units:	mg/kg	Date Analyzed: 02/26/19 21:04		RROGATE R		TUDV	
		2 400 milling 204, 02, 20, 17 21.07	50	ARUGAIE K	LCOVERY	51001	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		A 1 4			[10]		
1,4-Difluorob		Analytes	0.0340	0.0300	[D]	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



Project Name: SRO State Com #64

•	4						
Units:	mg/kg	Date Analyzed: 02/26/19 21:23	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1,4-Difluorobe	enzene		0.0346	0.0300	115	70-130	
4-Bromofluoro	obenzene		0.0346	0.0300	115	70-130	
Lab Batch #:	3080460	Sample: 615456-018 / SMP	Batch	n: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/26/19 21:42	SU	RROGATE R	ECOVERYS	STUDY	
		L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1.4-Difluorobe		Analytes	0.0342	0.0300	114	70-130	
4-Bromofluoro			0.0342	0.0300	114	70-130	
Lab Batch #:		Sample: 615456-021 / SMP	Batch		_	70-130	
Units:	mg/kg	Date Analyzed: 02/26/19 22:01		RROGATE R	-	TUDV	
e must			30.	KRUGAIE K			1
	BTEX	L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1,4-Difluorobe	enzene		0.0336	0.0300	112	70-130	
4-Bromofluoro	obenzene		0.0362	0.0300	121	70-130	
Lab Batch #:	3080460	Sample: 615456-022 / SMP	Batch	n: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/26/19 22:20	SU	RROGATE R	ECOVERY	STUDY	
		t by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1 4 Differench		Analytes	0.0240	0.0200		70.100	
1,4-Difluorobe			0.0340	0.0300	113	70-130	
Lab Batch #:		Sample: 615456-023 / SMP	0.0344 Batch	0.0300 n: 1 Matrix	115 •• Soil	70-130	
Lab Batch #: Units:		Date Analyzed: 02/26/19 22:39					
UIIIIS:	mg/kg	Date Analyzeu: 02/20/19 22.39	SU	RROGATE R	ECOVERYS	STUDY	
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1,4-Difluorobe	enzene		0.0334	0.0300	111	70-130	
4-Bromofluoro	benzene		0.0357	0.0300	119	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



Project Name: SRO State Com #64

Work Ord Lab Batch #:	ers: 615450 3080460	5, Sample: 615456-024 / SMP	Batcl		: 212C-MD-0 : Soil	1014	
Units:	mg/kg	Date Analyzed: 02/26/19 22:58	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorobe	enzene		0.0341	0.0300	114	70-130	
4-Bromofluoro	obenzene		0.0347	0.0300	116	70-130	
Lab Batch #:	3080227	Sample: 7672374-1-BLK / H	BLK Batcl	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 02/22/19 21:07	SU	RROGATE R	ECOVERY	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctan		Analytes	101	100	101	70-135	
o-Terphenyl	~		51.9	50.0	101	70-135	
Lab Batch #:	3080460	Sample: 7672572-1-BLK / H				70-133	
Lab Daten #. Units:	mg/kg	Date Analyzed: 02/26/19 15:25					
Units.	mg/kg	Date Analyzeu. 02/20/19 15.25	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorobe	enzene		0.0327	0.0300	109	70-130	
4-Bromofluoro	obenzene		0.0308	0.0300	103	70-130	
Lab Batch #:	3080227	Sample: 7672374-1-BKS / H	BKS Batel	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 02/22/19 21:27	SU	RROGATE R	ECOVERY	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctan		Analytes	121	100		70.125	
o-Terphenyl	e		121	100	121	70-135	
Lab Batch #:	3080460	Sample: 7672572-1-BKS / H	54.6 BKS Batcl	50.0 h: 1 Matrix	109	70-135	
Lab Datch #. Units:	mg/kg	Date Analyzed: 02/26/19 13:52					
	6 6	Dutt Many201. 02/20/17 13.32	50	RROGATE R	ECOVERY		
		K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorobe			0.0319	0.0300	106	70-130	
4-Bromofluoro	obenzene		0.0298	0.0300	99	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



Project Name: SRO State Com #64

		Sample: 7672374-1-BSD / B					
Units:	mg/kg	Date Analyzed: 02/22/19 21:46	SU	RROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1-Chloroocta	nne		130	100	130	70-135	
o-Terphenyl			62.7	50.0	125	70-135	
Lab Batch #	#: 3080460	Sample: 7672572-1-BSD / B	SD Batc	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 02/26/19 14:11	SU	RROGATE R	ECOVERY S	STUDY	
		by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorol			0.0318	0.0300	106	70-130	
4-Bromofluo	orobenzene		0.0296	0.0300	99	70-130	
Lab Batch #	#: 3080227	Sample: 615310-001 S / MS	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/22/19 22:25	SU	RROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1-Chloroocta	ine		125	99.9	125	70-135	
o-Terphenyl			60.2	50.0	120	70-135	
Lab Batch #	#: 3080460	Sample: 615456-001 S / MS	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/26/19 14:30	SU	RROGATE R	ECOVERY S	STUDY	
		L by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1,4-Difluorol			0.0326	0.0300	109	70-130	
4-Bromofluo	robenzene		0.0311	0.0300	104	70-130	
Lab Batch #	#: 3080227	Sample: 615310-001 SD / M		h: 1 Matrix	: Soil	I	<u> </u>
Units:	mg/kg	Date Analyzed: 02/22/19 22:45	SU	RROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chloroocta	ane		122	99.8	122	70-135	
o-Terphenyl			49.9	49.9	100	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



Project Name: SRO State Com #64

Work Orders : 61545 Lab Batch #: 3080460	56, Sample: 615456-001 SD / M	MSD Batch	Project ID: n: 1 Matrix:		01614	
Units: mg/kg	Date Analyzed: 02/26/19 14:49	SU	RROGATE RI	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0329	0.0300	110	70-130	
4-Bromofluorobenzene		0.0314	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



BS / BSD Recoveries



Project Name: SRO State Com #64

Work Order	r#: 615456							Pro	ject ID:	212C-MD-0	01614	
Analyst:	SCM	D	ate Prepar	ed: 02/26/20	19			Date A	nalyzed: (02/26/2019		
Lab Batch ID	Sample: 7672572-	1-BKS	Bate	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analy	ytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene		< 0.000385	0.100	0.119	119	0.101	0.119	118	0	70-130	35	
Toluene		< 0.000456	0.100	0.107	107	0.101	0.106	105	1	70-130	35	
Ethylbenz	zene	< 0.000565	0.100	0.104	104	0.101	0.104	103	0	70-130	35	
m,p-Xyler	nes	< 0.00101	0.200	0.210	105	0.201	0.208	103	1	70-130	35	
o-Xylene		< 0.000344	0.100	0.103	103	0.101	0.103	102	0	70-130	35	
Analyst:	CHE	D	ate Prepar	red: 02/22/20	19			Date A	nalyzed: ()2/22/2019		
Lab Batch ID	Sample: 7672335-	1-BKS	Batc	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE /]	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
Analy	Chloride by EPA 300 ytes	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
Chloride		<0.858	250	244	98	250	244	98	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: SRO State Com #64

Work Orde	er #: 615456							Proj	ject ID:	212C-MD-()1614	
Analyst:	CHE	D	ate Prepar	ed: 02/22/20	19			Date A	nalyzed: (02/22/2019		
Lab Batch II	D: 3080220 Sample: 76723	36-1-BKS	Batcl	n #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	ЭY	
	Chloride by EPA 300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Anal	ytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride		<0.858	250	246	98	250	255	102	4	90-110	20	
Analyst:	ARM	D	ate Prepar	ed: 02/22/20	19			Date A	nalyzed: (02/22/2019		
Lab Batch II	D: 3080227 Sample: 76723	74 1 DVS	D . 4 . 1						N			
	5. 5000227 Sample. 70725	/4-1-DK5	Batci	n#: 1					Matrix: S	Solid		
Units:	mg/kg	/4-1-DK5			SPIKE /]	BLANK S	SPIKE DUP				DY	
	mg/kg TPH by SW8015 Mod	Blank Sample Result [A]			SPIKE /] Blank Spike %R [D]	BLANK S Spike Added [E]	SPIKE DUP Blank Spike Duplicate Result [F]				OY Control Limits %RPD	Flag
Units: Anal	mg/kg TPH by SW8015 Mod	Blank Sample Result	BLAN Spike Added	K /BLANK Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	LICATE Blk. Spk Dup. %R	RECOV	ERY STUI	Control Limits	Flag

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: SRO State Com #64



					Project II	• 212C-I	MD-0161	4		
OC- Sample ID·	615456-0	001 S	Ra	tch #:	0					
- I						. 501				
Dute i repuieu.				-		TE REC	OVERV	STUDV		
- Device				KIA 51 I				1		
Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
[A]	[B]		[D]	[E]		[G]				
<0.000384	0.0998	0.0933	93	0.100	0.0953	95	2	70-130	35	
< 0.000455	0.0998	0.0814	82	0.100	0.0827	83	2	70-130	35	
< 0.000564	0.0998	0.0747	75	0.100	0.0764	76	2	70-130	35	
< 0.00101	0.200	0.152	76	0.200	0.154	77	1	70-130	35	
<0.000344	0.0998	0.0752	75	0.100	0.0767	77	2	70-130	35	
QC- Sample ID:	615456-0)11 S	Ba	tch #:	1 Matrix	: Soil				
Date Prepared:	02/22/20	19	An	alyst: (CHE					
Date Prepared:				•	CHE KE DUPLICA '	TE REC	OVERY	STUDY		
Parent Sample	MA Spike	ATRIX SPIK Spiked Sample Result	E / MAT Spiked Sample	RIX SPI	KE DUPLICA Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Parent		ATRIX SPIK	E / MAT Spiked	RIX SPI	KE DUPLICA	Spiked		Control		Flag
Parent Sample Result	MA Spike Added	ATRIX SPIK Spiked Sample Result	E / MAT Spiked Sample %R	RIX SPI Spike Added	KE DUPLICA Duplicate Spiked Sample	Spiked Dup. %R	RPD	Control Limits	Limits	Flag
Parent Sample Result [A]	MA Spike Added [B] 249	ATRIX SPIK Spiked Sample Result [C] 509	E / MAT Spiked Sample %R [D] 107	RIX SPI Spike Added [E]	KE DUPLICA Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G] 103	RPD %	Control Limits %R	Limits %RPD	Flag
Parent Sample Result [A] 243	MA Spike Added [B] 249 615456-0	ATRIX SPIK Spiked Sample Result [C] 509 014 S	E / MAT Spiked Sample %R [D] 107 Ba	RIX SPI Spike Added [E] 249	KE DUPLICA Duplicate Spiked Sample Result [F] 499 1 Matrix	Spiked Dup. %R [G] 103	RPD %	Control Limits %R	Limits %RPD	Flag
Parent Sample Result [A] 243 QC- Sample ID:	MA Spike Added [B] 249 615456-0 02/22/20	ATRIX SPIK Spiked Sample Result [C] 509)14 S 19	E / MAT Spiked Sample %R [D] 107 Ba An	RIX SPI Spike Added [E] 249 tch #: aalyst: (KE DUPLICA Duplicate Spiked Sample Result [F] 499 1 Matrix	Spiked Dup. %R [G] 103 x: Soil	RPD %	Control Limits %R 90-110	Limits %RPD	Flag
Parent Sample Result [A] 243 QC- Sample ID: Date Prepared: Parent Sample	MA Spike Added [B] 249 615456-0 02/22/20 MA Spike	ATRIX SPIK Spiked Sample Result [C] 509 014 S 19 ATRIX SPIK Spiked Sample Result	E / MAT Spiked Sample %R [D] 107 Ba An E / MAT Spiked Sample	RIX SPI Spike Added [E] 249 tch #: alyst: (RIX SPI Spike	KE DUPLICA Duplicate Spiked Sample Result [F] 499 1 Matrix CHE KE DUPLICA Duplicate Spiked Sample	Spiked Dup. %R [G] 103 :: Soil TE REC Spiked Dup.	RPD % 2 OVERY RPD	Control Limits %R 90-110 STUDY Control Limits	Limits %RPD 20 Control Limits	
Parent Sample Result [A] 243 QC- Sample ID: Date Prepared: Parent	MA Spike Added [B] 249 615456-0 02/22/20 MA	ATRIX SPIK Spiked Sample Result [C] 509 014 S 19 ATRIX SPIK Spiked Sample	E / MAT Spiked Sample %R [D] 107 Ba An E / MAT Spiked	RIX SPI Spike Added [E] 249 tch #: alyst: (RIX SPI	KE DUPLICA Duplicate Spiked Sample Result [F] 499 1 Matrix CHE KE DUPLICA	Spiked Dup. %R [G] 103 x: Soil TE REC Spiked	RPD % 2 OVERY	Control Limits %R 90-110 STUDY Control	Limits %RPD 20 Control	Flag
-	Parent Sample Result [A] <0.000384	Date Prepared: 02/26/20 Mate Parent Spike Result Spike Added Spike [A] <0.000384	Parent Sample Result [A] Spike Added [B] Spike Result [C] <0.000384	Parent Sample Result [A] Spike Added [B] Spiked Sample Result [C] Spiked Sample Mesult [C] Spiked Sample Mesult [C] Spiked Sample %R [D] <0.000384	Date Prepared: 02/26/2019 Analyst: S MATRIX SPIKE / MATRIX SPI Parent Sample Result [A] Spike Added [B] Spike Result [C] Spike Mample Neg (D) Spike Added [E] Spike Added [E] < <0.000384	QC- Sample ID: 615456-001 S Batch #: 1 Matrix Date Prepared: 02/26/2019 Batch #: 1 Matrix Matrix SPIKE / MATRIX SPIKE DUPLICA Parent Sample Result [A] Spike Added [B] Spiked Sample Result [C] Spiked %R (D] Spike Spiked Spiked Sample (E] Duplicate Spiked Sample Result [F] 0.0998 0.0933 93 0.100 0.0953 0.0998 0.0814 82 0.100 0.0827 0.0998 0.0747 75 0.100 0.0764 0.0998 0.0752 76 0.200 0.154 0.0998 0.0752 75 0.100 0.0767 QC- Sample ID: 1 Matrix	QC- Sample ID: 615456-001 S Batch #: 1 Matrix: Soil Date Prepared: 02/26/2019 Batch #: 1 Matrix: Soil Matrix: Soil Analyst: SCM Soil MATRIX SPIKE / MATRIX SPIKE DUPLICATE REC Parent Spike Spiked Spiked <td>QC- Sample ID: 615456-001 S Batch #: 1 Matrix: Soil Date Prepared: 02/26/2019 Analyst: SCM MATRIX SPIKE / MATRIX: Parent Spiked Sample Spiked Spike</td> <td>Date Prepared: 02/26/2019 Analyst: SCM MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Spikod Spiked Spiked</td> <td>QC- Sample ID: 615456-001 S Batch #: 1 Matrix: Soil Date Preparet: 02/26/2019 Analyst: SCM MATRIX SPIKE / MATRIX SPIKE /</td>	QC- Sample ID: 615456-001 S Batch #: 1 Matrix: Soil Date Prepared: 02/26/2019 Analyst: SCM MATRIX SPIKE / MATRIX: Parent Spiked Sample Spiked Spike	Date Prepared: 02/26/2019 Analyst: SCM MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Spikod Spiked Spiked	QC- Sample ID: 615456-001 S Batch #: 1 Matrix: Soil Date Preparet: 02/26/2019 Analyst: SCM MATRIX SPIKE /

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: SRO State Com #64



Work Order # :	615456						Project II): 212C-1	MD-01614	4						
Lab Batch ID:	3080220	QC- Sample ID:	615308	-002 S	Ba	tch #:	1 Matrix	k: Soil								
Date Analyzed:	02/22/2019	Date Prepared:	02/22/2	019	Ar	alyst: (CHE									
Reporting Units:	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY														
	Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag				
	Analytes	[A]	[B]	[0]	[D]	[E]	Kesutt [F]	[G]	/0							
Chloride		30.4	250	279	99	250	290	104	4	90-110	20					
Lab Batch ID:	3080220	QC- Sample ID:	615308	-003 S	Ba	tch #:	1 Matrix	k: Soil								
Date Analyzed:	02/22/2019	Date Prepared:	02/22/2	019	Ar	alyst: (CHE									
Reporting Units:	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY														
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag				
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD					
Chloride		30.4	249	279	100	249	289	104	4	90-110	20					
Lab Batch ID:	3080227	QC- Sample ID:	615310	-001 S	Ba	tch #:	1 Matrix	x: Soil								
Date Analyzed:	02/22/2019	Date Prepared:	02/22/2	019	Ar	alyst: A	ARM									
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY						
[TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag				
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD					
Gasoline Range	Hydrocarbons (GRO)	8.49	999	909	90	998	914	91	1	70-135	20					
Diesel Range Or	rganics (DRO)	52.5	999	998	95	998	1020	97	2	70-135	20					

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

		Relinquished by:	r terin quisi teu by.	Balinguished by:	Relinquished by:											(LAB USE)	LAB #		Comments: Run exci	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:			Analysis Reque
		Date: Time:	Date: lime:	19	Date: Time:	BH-1 (34'- 35')	BH-1 (29'- 30')	BH-1 (24'- 25')	BH-1 (19'- 20')	BH-1 (14'- 15')	BH-1 (9'- 10')	BH-1 (6'- 7')	BH-1 (4'- 5')	BH-1 (2'- 3')	BH-1 (0'- 1')		SAMPLE IDENTIFICATION		Run deeper samples if GRO+DRO exceeds 100 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or exceeds 50 mg/kg.	Xenco	COG - Ike Tavarez	Eddy County, New Mexico	SRO State Com #64	COG	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
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<		Date:	Date:	álan 10	Date:	× >	× >	× >	× >	< >	< >	<	×	×	×	WATEF SOIL HCL	}	MATRIX	penzene exceeds 1	d'i		212C-MD-01614		Clair Gonzales	900 West Wal Midland,T Tel (432 Fax (432	
		a: Time:	s: Time:			× >	< >	< >	< >	< >	< >	<	×	×		HNO ₃ ICE None		PRESERVATIVE	0 mg/kg or total BTEX	to a		D-01614		les	900 West Walt Street, Ste 100 Midland, Texas 79701 Tel (422) 682-4559 Fax (432) 682-3946	
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EX UPS	Special Report Limits or TRRP Report	Husn Charges Authorized	USH:	ST/	iș L	1	+	1	╞	╞	1	1	+			GC/MS V							v v v	ANALYSIS		
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	Date: Time:		Date: Time:		Date: Time:	BH-3 (4-5)	BH-3 (2'- 3')	BH-3 (0'- 1')	BH-2 (9'- 10')	BH-2 (6'- 7')	BH-2 (4'- 5')	BH-2 (2'- 3')	BH-2 (0'- 1')	BH-1 (39'- 40')		SAMPLE IDENTIFICATION		Run deeper samples if GRO+DRO exceeds 100 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg exceeds 50 mg/kg.	Xenco	COG - Ike Tavarez	Eddy County, New Mexico	SRO State Com #64	COG	Tetra Tech. Inc.	Analysis Request of Chain of Custody Record
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~	Date:		f V C I I	JAP Date:		×	×	×	×	×	×	×	×	×	WATEF SOIL HCL HNO3	3	MATRIX PR	enzene exceeds 10 r	the fit		212C-MD-01614		Clair Gonzales	900 West Wall Street, Ste 1 Midland, Texas 79701 Tel (432) 662-4559 Fax (432) 682-3946	
	Time:		Time:			×	X 1	× 1	× 1	× -	×	×	×		ICE None # CONT/	AINE	PRESERVATIVE S	ng/kg or total BTEX			01614		ß	reet, Ste 100 s 79701 2-4559 2-3946	
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		Date: Time:	Date: lime:	0	Date: Time:							Horizontal - West 2	Horizontal - West 1	Horizontal - South 1		SAMPLE IDENTIFICATION			Run deeper samples if GRO+DRO exceeds 100 mg/kg. Run deeper samples if benzene exce e ds 10 mg/kg oi exceeds 50 mg/kg.	Xenco	COG - Ike Tavarez	Eddy County, New Mexico	SRO State Com #64	COG	Tetra Tech. Inc.	Analysis Request of Chain of Custody Record
		Received hv:	Received by:	1/0/	Received by:						2/21/2019	2/21/2019	2/21/2019	2/21/2019			YEAR: 2019	SAMPLING	n deeper samples if b	Sampler Signature:		Project #:		Site Manager:		
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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland	Acceptable Temperature Range: 0 - 6 degC								
Date/ Time Received: 02/22/2019 10:50:00 AM	Air and Metal samples Acceptable Range: Ambient								
Work Order #: 615456	Temperature Measuring device used : R8								
Sample Recei	ot Checklist Comments								
#1 *Temperature of cooler(s)?	.4								
#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:

Date: 02/22/2019

Checklist reviewed by: Jession Veamer

Jessica Kramer

Date: 02/22/2019