	SITE INFORMATION							
	Report Type: Closure 1RP-5480							
General Site Info	ormation:							
Site:			o State #001H					
Company:		COG Operat						
Section, Townsh	nip and Range	Unit B	Sec. 04	T 24S	R 33E			
Lease Number:		API No.						
County:		Lea County						
GPS:			32.2532		-103.5744			
Surface Owner:		State	(LINA)(40	0 100 0	T N 4			
Directions:			go .27 miles and a		Tum North on	HVV 120 A	nd go 2.97 miles and	
Release Data:								
Date Released:		4/23/2019						
Type Release:		Produced Water						
Source of Contan	nination:	Flowline						
Fluid Released:		25 bbls						
Fluids Recovered		20 bbls						
Official Commun	nication:							
Name:	Ike Tavarez				Clair Gonza	les		
Company:	COG Operating, LL	С		Tetra Tech				
Address:	One Concho Cente	r			901 West W	/all Street		
	600 W. Illinois Ave.				Suite 100			
City:	Midland Texas, 79701				Midland, Te	xas		
Phone number:					(432) 687-8			
Fax:	(432) 684-7137							
Email:	itavarez@concho	.com			Clair.Gonz	ales@tetrat	tech.com	

Site Characterization	
Depth to Groundwater:	81'

Recommended Remedial Action Levels (RRALs)						
Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides		
10 mg/kg	50 mg/kg	1,000 mg/kg	2,500 mg/kg	10,000 mg/kg		



October 22, 2019

Mr. Dylan Rose-Coss Environmental Engineer Specialist Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Closure Report for the COG Operating, LLC, Cabo Blanco State #001H, Unit B, Section 04, Township 24 South, Range 33 East, Lea County, New Mexico. 1RP-5480

Mr. Rose-Coss:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating, LLC (COG) to assess a release that occurred at the Cabo Blanco State #001H, Unit B, Section 04, Township 24 South, Range 33 East, occurred at the Lea County, New Mexico (Site). The spill site coordinates are 32.2532°, -103.5744°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Report, the release occurred on April 23, 2019, and released approximately 25 barrels of produced due to a 3rd party company striking a flowline. A vacuum truck was used to remove all freestanding fluids, recovering approximately 20 barrels of produced water. The release impacted an area along the north edge of the lease road and on the lease road measuring approximately 40' x 10' and migrated into the pasture impacting an area measuring 104' x 8'. 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. The site is in a low karst potential area. Two wells are near the site and listed in the New Mexico Office of the State Engineers website. The nearest well is listed in Section 10, Township 24 South, Range 33 East, approximately 1.33 miles southeast of the site, and has a reported depth to groundwater of 20 feet below ground surface. However, it was completed in 1920. The other well is listed in Section 01, Township 24 South, Range 33 East, approximately 3.33 miles east of the site, and has a reported depth to groundwater of 81 feet below ground surface. The well was installed in February 2017. In addition, the surface elevation of this site is 3,641' and the surface elevation of the 20' well is approximately 3,590'. Based on the relative elevation the depth to groundwater is estimated to be around 70' 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

 Tetra Tech

 901 West Wall St, Suite 100, Midland, TX 79701

 Tel 432.682.4559
 Fax 432.682.3946
 www.tetratech.com



benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 1,000 mg/kg (GRO + DRO) and 2,500 mg/kg (GRO+DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 10,000 mg/kg.

Soil Assessment and Analytical Results

Auger Holes- Lease Road

On July 16, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of two (2) auger holes (AH-1 and AH-2) were installed near the source area and on the lease road to total depths ranging from 0-6" and 3.5' below surface. Deeper samples were not collected due to a dense formation in the area. 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 laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, none of the samples (AH-1 and AH-2) showed benzene, total BTEX, or TPH concentrations above the RRALs. The chloride concentrations ranging from 758 mg/kg to 2,410 mg/kg.

Trenches – Pasture

On July 30, 2019, Tetra Tech personnel returned to the site and install four (4) backhoe sample trenches (T-1 through T-4) to assess the pasture area. 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 laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed TPH, benzene, or total BTEX concentrations above the laboratory reporting limits. Additionally, no chloride concentrations above the RRAL were detected in the area.

Conclusion and Recommendation

The impact on lease road and source area did not show any benzene, total BTEX, TPH, or chloride concentrations above the RRALs. The impact at the source area appears to be limited or confined to the immediate area. The chloride concentrations detected were above the reclamation standards, with concentrations ranging from 758 mg/kg to 2,410 mg/kg. Due to the high levels of traffic in the area, the lease road is not accessible and cannot be safely excavated.

In addition, the remaining impact in the pasture did not show any concentrations above the RRAL or reclamation standards, which appear to have been affected by the heavy rains in the area.

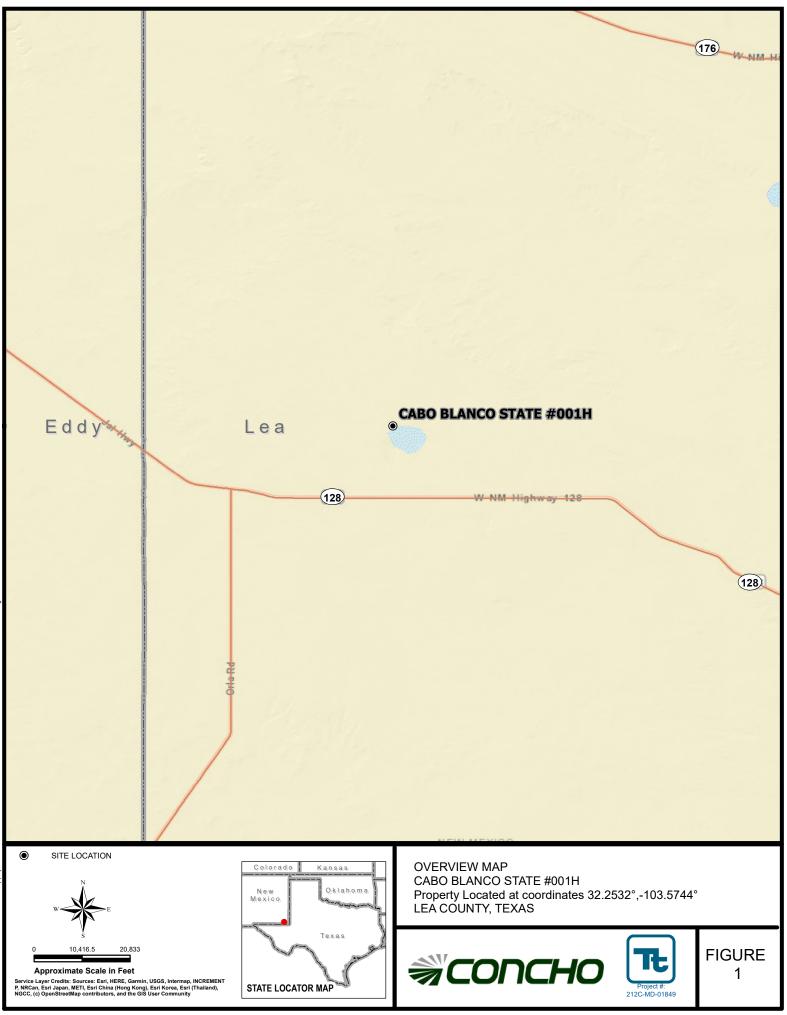
Based on the results, COG requests closure of this spill issue. The final C-141 is included in Appendix A. If you have any questions or comments concerning the assessment activities for this site, please call at (432) 682-4559.

Respectfully submitted, TETRA TECH

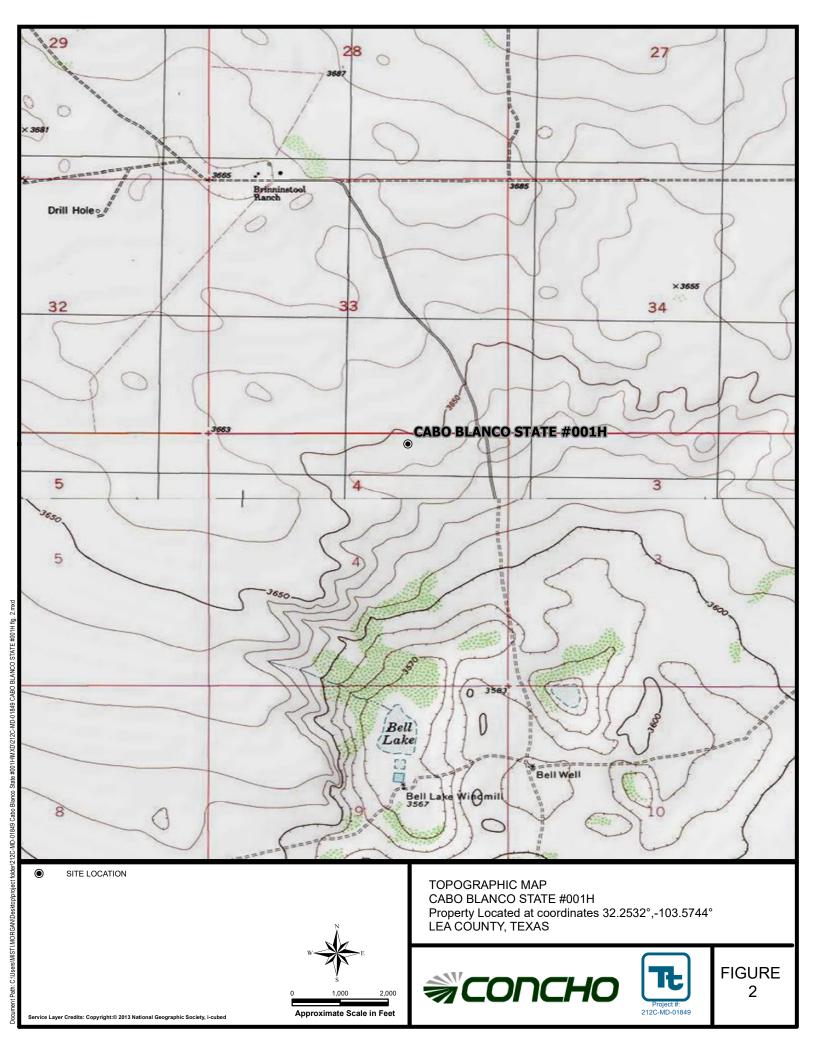
Mike Carmona, Geologist

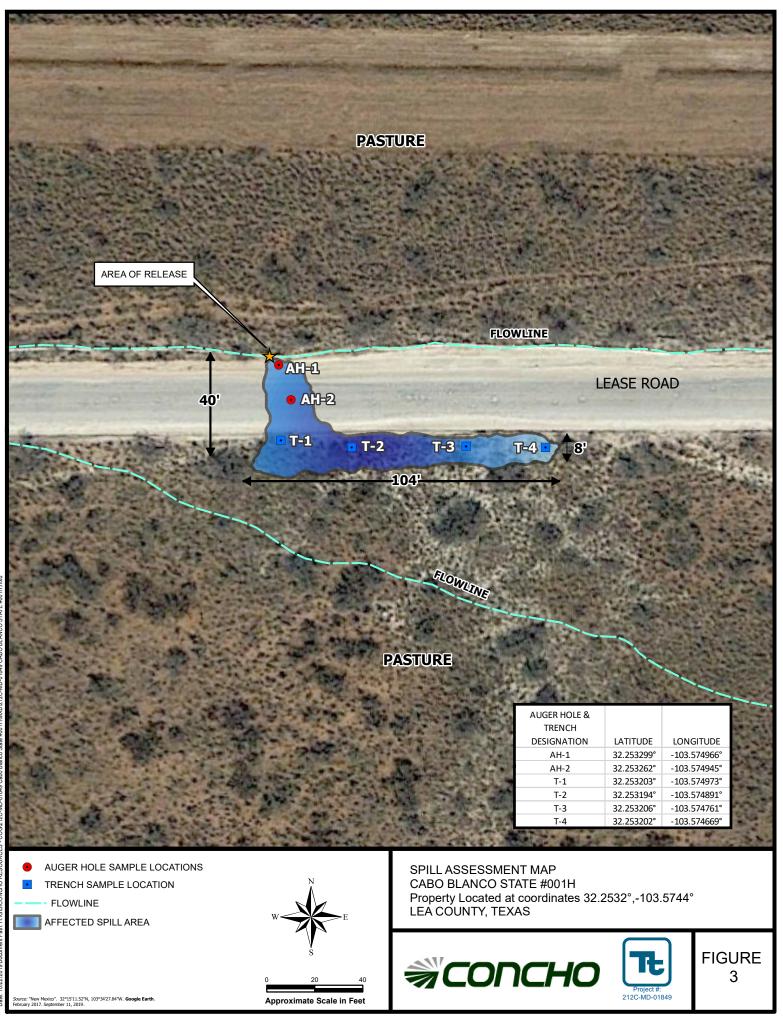
maline

Figures



rent Path: C:Users/MISTI.MORGAN/Desktopproject folder/212C-MD-01849 Cabo Blanco State #001HWXD/212C-MD-01849 CaBO BLANCO STATE #001H fg. 1.mxd





Tables

Table 1 COG Cabo Blanco State #1H Lea County, New Mexico

	Sample	Sample	BEB	Soil Status TPH (mg/kg)			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride			
Sample ID	Date	Depth (ft)	Sample Depth (ft)		Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	7/16/2019	0-1	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,800
	"	1-1.5	-	Х		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,080
	"	2-2.5	-	Х		-	-	-	-	-	-	-	-	-	2,410
	"	3-3.5	-	Х		-	-	-	-	-	-	-	-	-	1,010
AH-2	7/16/2019	0-0.5	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,140
	II	0.5-1	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	758
T-1	7/30/2019	0-1	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	18.5
	"	1	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	407
	"	2	-	Х		-	-	-	-	-	-	-	-	-	14.9
	"	3	-	Х		-	-	-	-	-	-	-	-	-	13.3
	"	4	-	Х		-	-	-	-	-	-	-	-	-	40.6
	"	5	-	Х		-	-	-	-	-	-	-	-	-	54.8
T-2	7/30/2019	0-1	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	85.6
	"	1	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	145
	"	2	-	Х		-	-	-	-	-	-	-	-	-	113
	"	3	-	Х		-	-	-	-	-	-	-	-	-	22.5
	"	4	-	Х		-	-	-	-	-	-	-	-	-	20.2
	II	5	-	Х		-	-	-	-	-	-	-	-	-	19.0
Т-3	7/30/2019	0-1	-	Х		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	44.8
	"	1	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	0.00229	<0.00199	0.00229	33.6
	"	2	-	Х		-	-	-	-	-	-	-	-	-	20.6
	"	3	-	Х		-	-	-	-	-	-	-	-	-	575
	"	4	-	Х		-	-	-	-	-	-	-	-	-	384
	"	5	-	Х		-	-	-	-	-	-	-	-	-	507
	"	6	-	Х		-	-	-	-	-	-	-	-	-	52.9
	"	7	-	Х		-	-	-	-	-	-	-	-	-	19.4
	II	8	-	Х		-	-	-	-	-	-	-	-	-	52.4
T-4	7/30/2019	0-1	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	262
	"	1	-	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	95.4
	"	2	-	Х		-	-	-	-	-	-	-	-	-	22.2
	"	3	-	Х		-	-	-	-	-	-	-	-	-	24.0
	"	4	-	Х		-	-	-	-	-	-	-	-	-	36.7
	"	5	-	Х		-	-	-	-	-	-	-	-	-	42.9

Photos

COG Operating LLC Cabo Blanco State #1H Lea County, New Mexico



View West – Area of AH-1



View South – Area of AH-2

COG Operating LLC Cabo Blanco State #1H Lea County, New Mexico



View West – Area of T-1, T,2,T3, and T4



View East- Area of T-1, T,2,T3, and T4

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

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Material(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)	Volume Recovered (bbls)
	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)
Cause of Release		
Cause of Release		

Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a main n	IFVEC for sub-t-manager (-) does the manager it is material within a main malager 2
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 YES, was immediate no	otice 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:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by: <u>Dylan Rose-Coss</u>	Date:

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
	Field data
	Data table of soil contaminant concentration data
	Depth to water determination
	Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
	Boring or excavation logs
	Photographs including date and GIS information
Ц	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
		Facility ID
		Application ID
regulations all operators and public health or the environ failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature:	re required to report and/or file certain release noti onment. The acceptance of a C-141 report by the C tigate and remediate contamination that pose a thre e of a C-141 report does not relieve the operator of	
OCD Only		
Received by:		Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following ite	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	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 certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC Printed Name:	A c-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially additions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Appendix B

Water Well Data Average Depth to Groundwater (ft) COG Cabo Blanco State #001H Lea County, New Mexico

-	23 Sc	outh	32	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 400	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	24 S	outh	32	East	
6	5	4	3	2	1
7	8	9	10 20	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 290	34	35	36

	25 So	outh	32		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32 290	33	34	35	36

-	23 Sc	outh	33	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
400	400				
30	29	28	27	26	25
		400		225	225
31	32	33	34	35	36

	24 So	outh	33	8 East	
6	5	4 Site	3	2	1 <mark>81</mark>
7	8	9	10 20 24.6	11	12
18	17	16 415	15	14 575	13 390
19	20	21	22	23 110 208	24 16.9
30	29	28	27	26	25 <mark>30</mark>
31	32	33 70 93.2	34	35	36

	25 Sc	outh	33	East	
6	5	4	3 172	2	1
7	8	9	10	11 140	12 200
18	17	16	15	14	13
19	20 200	21 120	22	23	24
30	29	28	27 125	26	25
31 257	32	33	34	35	36

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

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

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

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)

- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

New Mexico Office of the State Engineer Water Column/Average Depth to Water

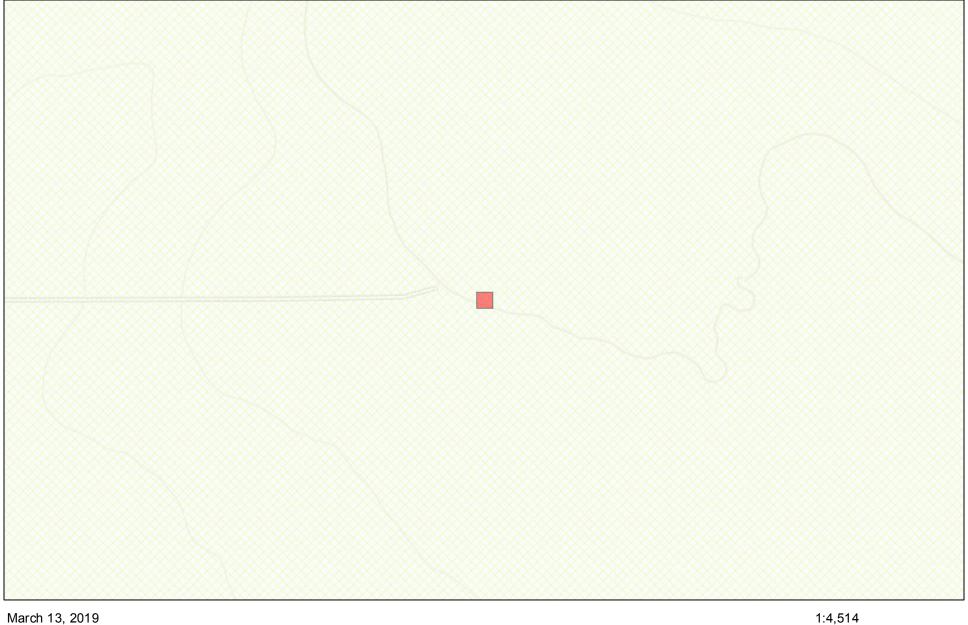
POD suffix indicates the POD has been replaced & no longer serves a	(R=POD replaced, O=orpha	ned,		iarte	TS :	are	1=NW	/ 2=NI	E 3=SW	4=SE)				
vater right file.)	C=the file closed)								argest)		3 UTM in meters)		(In feet)	
	6.1	POD Sub-	. .	-	Q	-	C	Ŧ	n	v	V D			Water
POD Number	Code	CUB	County LE	_	3	4	10	24S	33E	X 634953	Y D 3567364*	epthWellD 40	20	20 20
<u>02309</u>		CUB	LE	2	2	2	25	24S	33E	639638	3562994*	60	30	30
<u>c 02310</u>		CUB	LE	2	3	2	33	24S	33E	634437	3560918*	120	70	50
<u>02311</u>		CUB	LE	2	3	2	33	24S	33E	634437	3560918*	120	70	5
02430		CUB	LE	3	3	3	16	24S	33E	633377	3564732*	643	415	22
<u>02431</u>		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	525	415	11
<u>c 02432</u>		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	640	415	22:
<u>02563</u>		CUB	LE	1	4	2	33	24S	33E	634639	3560923*	120		
02564		CUB	LE	2	4	2	33	24S	33E	634839	3560923*	120		
<u>02890</u>		С	LE		2	4	29	24S	33E	633114	3562012*	500		
C 03565 POD3		CUB	LE		3	4	08	24S	33E	632763	3566546		1533	
C 03591 POD1		CUB	LE	2	1	4	05	24S	33E	632731	3568518			
C 03600 POD1		CUB	LE	2	2	1	26	24S	33E	637275	3563023			
C 03600 POD2		CUB	LE	4	4	1	25	24S	33E	638824	3562329			
C 03600 POD3		CUB	LE	3	4	2	26	24S	33E	637784	3562340			
C 03600 POD4		CUB	LE	3	3	1	26	24S	33E	636617	3562293			
C 03600 POD5		CUB	LE	3	2	4	26	24S	33E	637857	3562020			
C 03600 POD6		CUB	LE	3	1	4	26	24S	33E	637383	3562026			
<u>C 03600 POD7</u>		CUB	LE	3	1	3	26	24S	33E	636726	3561968			
<u>03601 POD1</u>		CUB	LE	4	4	2	23	24S	33E	638124	3563937			
<u>03601 POD2</u>		CUB	LE	3	2	4	23	24S	33E	637846	3563588			
<u>C 03601 POD3</u>		CUB	LE	1	3	3	24	24S	33E	638142	3563413			
<u>C 03601 POD4</u>		CUB	LE	3	3	3	24	24S	33E	638162	3561375			
<u>C 03601 POD5</u>		CUB	LE	2	4	4	23	24S	33E	637988	3563334			
<u>C 03601 POD6</u>		CUB	LE	1	4	4	23	24S	33E	637834	3563338			
<u>C 03601 POD7</u>		CUB	LE	4	4	4	23	24S	33E	637946	3563170			
C 03602 POD2		CUB	LE	4	4	1	25	24S	33E	638824	3562329			
<u>03603 POD1</u>		CUB	LE	3	2	2	35	24S	33E	637805	3561225			
C 03603 POD2		CUB	LE	3	1	2	35	24S	33E	637384	3561167			
C 03603 POD3		CUB	LE	4	1	1	35	24S	33E	636890	3561092			
C 03603 POD4		CUB	LE	3	2	4	35	24S	33E	637789	3560461			
<u>03603 POD5</u>		CUB	LE	3	3	2	35	24S	33E	636745	3560767			
<u>03603 POD6</u>		CUB	LE	3	1	3	35	24S	33E	636749	3560447			
<u>03662 POD1</u>		С	LE	3	1	2	23	24S	33E	637342	3564428	550	110	440
<u>C 03666 POD1</u>		С	LE	2	3	4	13	24S	33E	639132	3565078	650	390	260
<u>C 03679 POD1</u>		С	ED	1	4	2	14	24S	33E	603567	3581547	700	575	12:
<u>03917 POD1</u>		С	LE	4	1	3	13	24S	33E	638374	3565212	600	420	180
04014 POD2		CUB	LE	4	4	2	01	24S	33E	639656	3568917	95	81	14
<u>04014 POD3</u>		CUB	LE	2	4	2	01	24S	33E	639497	3569007	95	87	8
<u>04014 POD4</u>		CUB	LE	3	4	2	01	24S	33E	639295	3568859	96	86	10
<u>04014 POD5</u>		CUB	LE				01	24S	33E	639284	3569086	95	85	10
											Average Depth to V	Vater:	300	feet
											Minimum			feet
											Maximum I	-	1533	

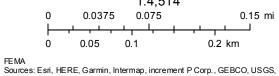
Record Count: 41

PLSS Search:

Township: 248 Range: 33E







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Appendix C

Analytical Report 631202

for Tetra Tech- Midland

Project Manager: Mike Carmona Cabo Blanco State #001H (4-23-19)

22-JUL-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20) 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-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429), North Carolina (483)



22-JUL-19



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

Reference: XENCO Report No(s): 631202 Cabo Blanco State #001H (4-23-19) Project Address: Lea County, New Mexico

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) 631202. 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. 631202 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Id

AH-1 (0-1')
AH-1 (1-1.5')
AH-1 (2-2.5')
AH-1 (3-3.5')
AH-2 (0-6")
AH-2 (6"-12")

Sample Cross Reference 631202



Tetra Tech- Midland, Midland, TX

Cabo Blanco State #001H (4-23-19)

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	07-16-19 00:00		631202-001
S	07-16-19 00:00		631202-002
S	07-16-19 00:00		631202-003
S	07-16-19 00:00		631202-004
S	07-16-19 00:00		631202-005
S	07-16-19 00:00		631202-006



CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Cabo Blanco State #001H (4-23-19)

Project ID: Work Order Number(s): 631202 Report Date:22-JUL-19Date Received:07/17/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3095867 TPH by SW8015 Mod Surrogate o-Terphenyl recovered above QC limits. Samples affected are: 7682339-1-BKS,7682339-1-BSD,631202-006.

Batch: LBA-3095963 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id:

Contact:

Project Location: Lea County, New Mexico

Mike Carmona

Certificate of Analysis Summary 631202

Tetra Tech- Midland, Midland, TX

Project Name: Cabo Blanco State #001H (4-23-19)



Date Received in Lab:Wed Jul-17-19 01:54 pmReport Date:22-JUL-19

Project Manager: Jessica Kramer

	Lab Id:	631202-0	001	631202-0	02	631202-0	003	631202-0	04	631202-0	005	631202-0	006
Analysis Paguastad	Field Id:	AH-1 (0-	-1')	AH-1 (1-1	.5')	AH-1 (2-2	2.5')	AH-1 (3-3	5.5')	AH-2 (0-	-6")	AH-2 (6"-	12")
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-16-19 (00:00	Jul-16-190	0:00	Jul-16-19 0	00:00	Jul-16-190	0:00	Jul-16-19 (00:00	Jul-16-19 (00:00
BTEX by EPA 8021B	Extracted:	Jul-17-19 1	14:23	Jul-17-19 1	4:23					Jul-17-19	14:23	Jul-17-19 1	14:23
	Analyzed:	Jul-20-19 (09:37	Jul-20-19 0	9:58					Jul-20-19 (03:22	Jul-20-19 1	10:38
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00199	0.00199	< 0.00199	0.00199
Toluene		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00199	0.00199	< 0.00199	0.00199
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00199	0.00199	< 0.00199	0.00199
m,p-Xylenes		< 0.00401	0.00401	< 0.00402	0.00402					< 0.00398	0.00398	< 0.00398	0.00398
o-Xylene		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00199	0.00199	< 0.00199	0.00199
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00199	0.00199	< 0.00199	0.00199
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00199	0.00199	< 0.00199	0.00199
Chloride by EPA 300	Extracted:	Jul-18-19 1	13:40	Jul-18-19 1	3:40	Jul-18-19 1	3:40	Jul-18-19 1	3:40	Jul-18-19	13:40	Jul-18-19 1	13:40
	Analyzed:	Jul-18-19 1	15:59	Jul-18-19 1	6:40	Jul-18-19 1	6:47	Jul-18-19 1	9:07	Jul-18-19	19:13	Jul-18-19 1	19:20
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1800	25.0	1080	5.05	2410	25.0	1010	4.95	1140	5.01	758	4.98
TPH by SW8015 Mod	Extracted:	Jul-18-19 (08:00	Jul-18-19 0	8:00					Jul-18-19 (08:00	Jul-18-19 (08:00
	Analyzed:	Jul-18-19 1	12:40	Jul-18-19 1	3:53					Jul-18-19	14:17	Jul-18-19 1	14:42
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9					<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<14.9	14.9					<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<14.9	14.9					<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<14.9	14.9					<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 Vermer

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



	ders : 631202 #: 3095867	2, Sample: 631202-001 / SMP	Batch	Project ID			
Units:	mg/kg	Date Analyzed: 07/18/19 12:40		RROGATE R		STUDY	
		oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct			127	99.9	127	70-135	
o-Terphenyl		G 1 (21202.002./ SMD	67.0	50.0	134	70-135	
	#: 3095867	Sample: 631202-002 / SMP	Batch		-		
Units:	mg/kg	Date Analyzed: 07/18/19 13:53	SU	RROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chloroocta		Analytes	114	99.6	114	70-135	
o-Terphenyl			59.9	49.8	114	70-135	
	#: 3095867	Sample: 631202-005 / SMP	Batch		ļ	70-155	
Units:	mg/kg	Date Analyzed: 07/18/19 14:17		RROGATE R		STUDY	
				1			
		oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chlorooct			119	99.9	119	70-135	
o-Terphenyl			61.5	50.0	123	70-135	
	#: 3095867	Sample: 631202-006 / SMP	Batch	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 07/18/19 14:42	SU	RROGATE R	ECOVERY S	STUDY	
		by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		126	100	126	70-135	
o-Terphenyl			69.5	50.0	139	70-135	**
Lab Batch	#: 3095963	Sample: 631202-005 / SMP	Batch	h: 1 Matrix	Soil	1	
U nits:	mg/kg	Date Analyzed: 07/20/19 03:22	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-Difluoro			0.0289	0.0300	96	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



Lab Batch #	: 3095963	Sample: 631202-001 / SMP	Batel	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 07/20/19 09:37	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1,4-Difluorob	enzene		0.0292	0.0300	97	70-130	
4-Bromofluor			0.0325	0.0300	108	70-130	
Lab Batch #	: 3095963	Sample: 631202-002 / SMP	Batcl	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 07/20/19 09:58	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-Difluorob		Analytes	0.0310	0.0300	103	70-130	
4-Bromofluor			0.0323	0.0300	108	70-130	
Lab Batch #	: 3095963	Sample: 631202-006 / SMP	Batcl			10 100	
Units:	mg/kg	Date Analyzed: 07/20/19 10:38		RROGATE R		STUDY	
	BTEX	L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	[]		[D]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1,4-Difluorob	enzene		0.0303	0.0300	101	70-130	
4-Bromofluor	obenzene		0.0326	0.0300	109	70-130	
Lab Batch #	: 3095867	Sample: 7682339-1-BLK / B	LK Batel	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 07/18/19 11:27	SU	RROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chloroocta	ne		109	100	109	70-135	
o-Terphenyl			63.6	50.0	127	70-135	
Lab Batch #	: 3095963	Sample: 7682226-1-BLK / B	ELK Batcl	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 07/19/19 04:59	SU	RROGATE R	ECOVERY S	STUDY	
		by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
140.01			0.0291	0.0300	97	70-130	
1,4-Difluorob							

* 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



Work Orders: 631202, **Project ID:** Lab Batch #: 3095867 Matrix: Solid Sample: 7682339-1-BKS / BKS Batch: 1 Units: Date Analyzed: 07/18/19 11:51 mg/kg SURROGATE RECOVERY STUDY True Amount Control TPH by SW8015 Mod Found Amount Recovery Limits Flags [A] [B] %R %R [**D**] Analytes 1-Chlorooctane 70-135 106 100 106 o-Terphenyl 50.0 ** 72.0 144 70-135 Lab Batch #: 3095963 Sample: 7682226-1-BKS / BKS Batch: 1 Matrix: Solid Date Analyzed: 07/19/19 02:58 Units: mg/kg SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [**D**] Analytes 1,4-Difluorobenzene 0.0287 0.0300 96 70-130 4-Bromofluorobenzene 0.0306 0.0300 102 70-130 Lab Batch #: 3095867 Sample: 7682339-1-BSD / BSD Batch: Matrix: Solid 1 Units: mg/kg Date Analyzed: 07/18/19 12:15 SURROGATE RECOVERY STUDY Amount True Control TPH by SW8015 Mod Found Limits Flags Amount Recovery [A] [B] %R %R [D] Analytes 1-Chlorooctane 116 100 116 70-135 o-Terphenyl 72.3 50.0 145 70-135 ** Lab Batch #: 3095963 Sample: 7682226-1-BSD / BSD Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 07/19/19 03:19 SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B Found Amount Recovery Limits Flags [**B**] %R %R [A] [D] Analytes 1,4-Difluorobenzene 0.0298 0.0300 99 70-130 4-Bromofluorobenzene 0.0335 0.0300 112 70-130 Lab Batch #: 3095867 Sample: 631202-001 S / MS Batch: 1 Matrix: Soil Units: mg/kg Date Analyzed: 07/18/19 13:04 SURROGATE RECOVERY STUDY Amount True Control TPH by SW8015 Mod Found Amount Recovery Limits Flags [A] [**B**] %R %R [D] Analytes 1-Chlorooctane 105 99.7 105 70-135 o-Terphenyl 63.7 49.9 128 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



Work Orders : 631202, Lab Batch #: 3095963 Sample: 630893-001	S / MS Bate	Project ID			
Units: mg/kg Date Analyzed: 07/19/19 06		JRROGATE R	ECOVERY S	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	70-130	
4-Bromofluorobenzene	0.0265	0.0300	88	70-130	
Lab Batch #: 3095867 Sample: 631202-001	SD / MSD Bate	h: 1 Matrix	: Soil	1	
Units: mg/kg Date Analyzed: 07/18/19 13	:28 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	106	99.8	106	70-135	
o-Terphenyl	64.3	49.9	129	70-135	
Lab Batch #: 3095963 Sample: 630893-001	SD / MSD Bate	ch: 1 Matrix	: Soil	1	
Units: mg/kg Date Analyzed: 07/19/19 06	:25 SU	JRROGATE R	ECOVERY S	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	70-130	
4-Bromofluorobenzene	0.0341	0.0300	114	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: Cabo Blanco State #001H (4-23-19)

Work Order	r #: 631202							Pro	ject ID:					
Analyst:	FOV	D	Date Prepared: 07/17/2019					Date Analyzed: 07/19/2019						
Lab Batch ID	Sample: 76822	226-1-BKS	-BKS Batch #: 1				Matrix: Solid							
Units:	mg/kg		BLANK /BLANK SPIKE / BLAN					K SPIKE DUPLICATE RECOVERY STUDY						
	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		
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]						
Benzene		<0.00200	0.100	0.107	107	0.100	0.110	110	3	70-130	35			
Toluene		<0.00200	0.100	0.105	105	0.100	0.106	106	1	70-130	35			
Ethylbenzene		< 0.00200	0.100	0.117	117	0.100	0.119	119	2	70-130	35			
m,p-Xylenes		< 0.00400	0.200	0.234	117	0.200	0.241	121	3	70-130	35			
o-Xylene		<0.00200	0.100	0.112	112	0.100	0.117	117	4	70-130	35			
Analyst: CHE Date Prepared: 07/18/2019 Date Anal								nalyzed: (07/18/2019	1				
Lab Batch ID	Sample: 76822	294-1-BKS	Batc	Matrix: Solid										
Units:	mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
	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		
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]						
Chloride		<0.858	250	233	93	250	232	93	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: Cabo Blanco State #001H (4-23-19)

Work Order	· #: 631202							Proj	ect ID:				
Analyst:	ARM	Date Prepared: 07/18/2019				Date Analyzed: 07/18/2019							
Lab Batch ID	-BKS Batch #: 1				Matrix: Solid								
Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										ΟY			
TPH by SW8015 Mod		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	
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]					
Gasoline F	Gasoline Range Hydrocarbons (GRO)		1000	1150	115	1000	1150	115	0	70-135	20		
Diesel Range Organics (DRO)		<8.13	1000	1120	112	1000	1150	115	3	70-135	20		

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes





Project Name: Cabo Blanco State #001H (4-23-19)

Work Order # : 631202						Project II):				
Lab Batch ID: 3095963	QC- Sample ID:	630893	-001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed: 07/19/2019	Date Prepared:	07/17/2	.019	An	alyst: F	FOV					
Reporting Units: mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	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]	[-]	[D]	[E]	[-]	[G]				
Benzene	<0.00198	0.0992	0.0835	84	0.0998	0.0893	89	7	70-130	35	
Toluene	<0.00198	0.0992	0.0798	80	0.0998	0.0861	86	8	70-130	35	
Ethylbenzene	<0.00198	0.0992	0.0840	85	0.0998	0.0915	92	9	70-130	35	
m,p-Xylenes	<0.00397	0.198	0.167	84	0.200	0.185	93	10	70-130	35	
o-Xylene	<0.00198	0.0992	0.0763	77	0.0998	0.0865	87	13	70-130	35	
Lab Batch ID: 3095818	QC- Sample ID:	631162	-004 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed: 07/18/2019	Date Prepared:	07/18/2	.019	An	alyst: (CHE					
Reporting Units: mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD %	Control Limits	Control Limits %RPD	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%0	%R	%RPD	
Chloride	269	249	485	87	249	485	87	0	90-110	20	X
Lab Batch ID: 3095818	QC- Sample ID:	631307	-007 S	Ba	tch #:	1 Matrix	k: Soil			-	
Date Analyzed: 07/18/2019	Date Prepared:	07/18/2	.019	An	alyst: (CHE					
Reporting Units: mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	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]	Added [B]		%K [D]	E]	Kesuit [r]	%K [G]	70	70K	70KFD	
Chloride	273	250	485	85	250	486	85	0	90-110	20	X

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.





Project Name: Cabo Blanco State #001H (4-23-19)

Work Order # :	631202						Project II) :				
Lab Batch ID:	3095867	QC- Sample ID:	631202-	-001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	07/18/2019	Date Prepared:	07/18/2	019	An	alyst: A	ARM					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERYS	STUDY		
ſ	FPH 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 I	Hydrocarbons (GRO)	8.18	997	1170	117	998	1150	114	2	70-135	20	
Diesel Range Org	ganics (DRO)	14.7	997	1120	111	998	1180	117	5	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:	Heiinquisned by:	hi	Relinquished by:												LAB #			Comments:	Receiving Laboratory:	Invoice to:	Project Location: state)	Project Name:	Client Name:	(F)	Analysis Re
		V		2 (Jun - 7/16/19	y: Date: Time:					AH-2 (6"-12")	AH-2 (0-6")	AH-1 (3'-3.5')	AH-1 (2'-2.5')	AH-1 (1-1.5)	AH-1 (0-1')		SAMPLE IDENTIFICATION				atory: Xenco Labs	COG Ike Tavarez	: (county, Lea County, New Mexico		COG	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY		Received by:	Received by:	Z	Received by:					7/16/2019	7/16/2019	7/16/2019	7/16/2019	7/16/2019	7/16/2019	DATE	YEAR: 2019	SAMPLING			Sampler Signature:		Project #:		Site Manager:		
		Date:		412	Date					×	×	×	×	×	×	WATE SOIL HCL	R	MATRIX			Mike Carmona				Mike Carmona	901 West W Midland,T Tel (432) Fax (432)	
		Time:	q /2	NA NA	Time:					×	×	× ×	×	×	X	HNO₃ ICE None		PRESERVATIVE METHOD			mona				na	901 West Wall, Suite 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946	
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EDEX	Spec	Rush	RUSH	S S	RS:		-									RCI GC/MS	Vol. 8	3260B	/ 624					— ě	-YSI		
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	port Li	ges Ai	X RUSH: Same Day	STANDARD	┢		-+	-	-							PCB's 8 NORM	3082 /	608							ANALYSIS REQUEST		
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	Special Report Limits or TRRP Report		48 hr		ļ											Genera				ry (s	ee atta	ached I	ist)	,	-		
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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: 07/17/2019 01:54:00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 631202	Temperature Measuring device used : R8
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#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: 07/17/2019

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 07/17/2019

Analytical Report 632659

for Tetra Tech- Midland

Project Manager: Mike Carmona

Cabo Blanco State 1H (4-29-19)

212C-MD-01849

05-AUG-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142), North Carolina (681)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20) 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-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429), North Carolina (483)



05-AUG-19



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

Reference: XENCO Report No(s): 632659 Cabo Blanco State 1H (4-29-19) Project Address: Lea County, New Mexico

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) 632659. 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. 632659 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 632659



Tetra Tech- Midland, Midland, TX

Cabo Blanco State 1H (4-29-19)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-1 (0-1')	S	07-30-19 00:00		632659-001
T-1 (1')	S	07-30-19 00:00		632659-002
T-1 (2')	S	07-30-19 00:00		632659-003
T-1 (3')	S	07-30-19 00:00		632659-004
T-1 (4')	S	07-30-19 00:00		632659-005
T-1 (5')	S	07-30-19 00:00		632659-006
T-2 (0-1')	S	07-30-19 00:00		632659-007
T-2 (1')	S	07-30-19 00:00		632659-008
T-2(2')	S	07-30-19 00:00		632659-009
T-2(3')	S	07-30-19 00:00		632659-010
T-2 (4')	S	07-30-19 00:00		632659-011
T-2 (5')	S	07-30-19 00:00		632659-012
T-3 (0-1')	S	07-30-19 00:00		632659-013
T-3 (1')	S	07-30-19 00:00		632659-014
T-3 (2')	S	07-30-19 00:00		632659-015
T-3(3')	S	07-30-19 00:00		632659-016
T-3 (4')	S	07-30-19 00:00		632659-017
T-3 (5')	S	07-30-19 00:00		632659-018
T-3(6')	S	07-30-19 00:00		632659-019
T-3 (7')	S	07-30-19 00:00		632659-020
T-3 (8')	S	07-30-19 00:00		632659-021
T-4 (0-1')	S	07-30-19 00:00		632659-022
T-4 (1')	S	07-30-19 00:00		632659-023
T-4 (2')	S	07-30-19 00:00		632659-024
T-4 (3')	S	07-30-19 00:00		632659-025
T-4 (4')	S	07-30-19 00:00		632659-026
T-4(5')	S	07-30-19 00:00		632659-027



CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Cabo Blanco State 1H (4-29-19)

Project ID: 212C-MD-01849 Work Order Number(s): 632659
 Report Date:
 05-AUG-19

 Date Received:
 07/31/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3097186 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3097307 Chloride by EPA 300

Lab Sample ID 632659-026 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 632659-026, -027.

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



Mike Carmona

Lea County, New Mexico

Contact:

Project Location:

Certificate of Analysis Summary 632659

Tetra Tech- Midland, Midland, TX

Project Name: Cabo Blanco State 1H (4-29-19)



Date Received in Lab:Wed Jul-31-19 04:22 pmReport Date:05-AUG-19Project Manager:Jessica Kramer

	Lab Id:	632659-0	001	632659-0	002	632659-0	03	632659-0	04	632659-0	005	632659-0	06
A surface in Decourse of a l	Field Id:	T-1 (0-1	l')	T-1 (1)	T-1 (2')		T-1 (3')		T-1 (4')	T-1 (5'))
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-30-19 (00:00	Jul-30-19 (00:00	Jul-30-19 0	0:00	Jul-30-19 0	0:00	Jul-30-19 (00:00	Jul-30-19 0	0:00
BTEX by EPA 8021B	Extracted:	Jul-31-19 1	17:00	Jul-31-19 1	7:00								
	Analyzed:	Aug-01-19	08:55	Aug-01-19	09:15								
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		< 0.00200	0.00200	< 0.00200	0.00200								
Toluene		< 0.00200	0.00200	< 0.00200	0.00200								
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200								
m,p-Xylenes		< 0.00399	0.00399	< 0.00400	0.00400								
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200								
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200								
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200								
Chloride by EPA 300	Extracted:	Aug-01-19	18:00	Aug-01-19	18:00	Aug-01-19 1	8:00	Aug-01-19	8:00	Aug-01-19	18:00	Aug-01-19	8:00
	Analyzed:	Aug-02-19	17:05	Aug-02-19	17:10	Aug-02-19 1	7:15	Aug-02-19	7:21	Aug-02-19	17:37	Aug-02-19	7:42
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		18.5	5.00	407	5.02	14.9	5.03	13.3	5.05	40.6	4.98	54.8	4.98
TPH by SW8015 Mod	Extracted:	Aug-02-19	09:00	Aug-02-19	09:00								
	Analyzed:	Aug-04-19	13:35	Aug-04-19	14:34								
	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								

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



Certificate of Analysis Summary 632659

Tetra Tech- Midland, Midland, TX

Project Name: Cabo Blanco State 1H (4-29-19)



Project Id:212C-MD-01849Contact:Mike CarmonaProject Location:Lea County, New Mexico

Date Received in Lab:Wed Jul-31-19 04:22 pmReport Date:05-AUG-19Project Manager:Jessica Kramer

	Lab Id:	632659-0	007	632659-0	008	632659-0	09	632659-0	010	632659-0	11	632659-0	12
A su al su la Demonstra I	Field Id:	T-2 (0-1	1')	T-2 (1))	T-2(2')		T-2(3'))	T-2 (4)		T-2 (5'))
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-30-19 (00:00	Jul-30-19 0	00:00	Jul-30-19 0	0:00	Jul-30-19 0	00:00	Jul-30-19 0	0:00	Jul-30-19 0	0:00
BTEX by EPA 8021B	Extracted:	Jul-31-19	17:00	Jul-31-19 1	7:00						-		
	Analyzed:	Aug-01-19	09:35	Aug-01-19	09:56								
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		< 0.00200	0.00200	< 0.00200	0.00200								
Toluene		< 0.00200	0.00200	< 0.00200	0.00200								
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200								
m,p-Xylenes		< 0.00400	0.00400	< 0.00400	0.00400								
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200								
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200								
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200								
Chloride by EPA 300	Extracted:	Aug-01-19	18:00	Aug-01-19	18:00	Aug-01-19 1	8:00	Aug-01-19	18:00	Aug-01-19	8:00	Aug-01-19	18:00
	Analyzed:	Aug-02-19	17:59	Aug-02-19	18:04	Aug-02-19 1	8:10	Aug-02-19	18:15	Aug-02-19	18:20	Aug-02-19	18:26
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		85.6	4.97	145	5.00	113	5.02	22.5	5.05	20.2	5.03	19.0	4.98
TPH by SW8015 Mod	Extracted:	Aug-02-19	09:00	Aug-02-19	09:00								
	Analyzed:	Aug-04-19	14:54	Aug-04-19	15:14								
	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



Mike Carmona

Lea County, New Mexico

Contact:

Project Location:

Certificate of Analysis Summary 632659

Tetra Tech- Midland, Midland, TX

Project Name: Cabo Blanco State 1H (4-29-19)



Date Received in Lab:Wed Jul-31-19 04:22 pmReport Date:05-AUG-19Project Manager:Jessica Kramer

	Lab Id:	632659-(013	632659-0	014	632659-0	15	632659-0	16	632659-0	017	632659-0	018
Analysis Paguastad	Field Id:	T-3 (0-1	1')	T-3 (1)	T-3 (2')	,	T-3(3')		T-3 (4')	T-3 (5))
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL	,	SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-30-19 (00:00	Jul-30-19 (00:00	Jul-30-19 0	0:00	Jul-30-19 0	0:00	Jul-30-19 (00:00	Jul-30-19 0	00:00
BTEX by EPA 8021B	Extracted:	Jul-31-19	17:00	Jul-31-19	17:00								
	Analyzed:	Aug-01-19	10:16	Aug-01-19	10:36								
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		< 0.00200	0.00200	< 0.00199	0.00199								
Toluene		< 0.00200	0.00200	< 0.00199	0.00199								
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199								
m,p-Xylenes		< 0.00400	0.00400	< 0.00398	0.00398								
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199								
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199								
Total BTEX		< 0.00200	0.00200	< 0.00199	0.00199								
Chloride by EPA 300	Extracted:	Aug-01-19	18:00	Aug-01-19	18:30	Aug-01-19 1	18:30	Aug-01-19	8:30	Aug-01-19	18:30	Aug-01-19	18:30
	Analyzed:	Aug-02-19	18:31	Aug-02-19	01:03	Aug-02-19 (01:22	Aug-02-19 (01:28	Aug-02-19	01:35	Aug-02-19 (01:41
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		44.8	4.96	33.6	5.04	20.6	5.01	575	5.01	384	5.00	507	4.96
TPH by SW8015 Mod	Extracted:	Aug-02-19	09:00	Aug-02-19	09:00								
	Analyzed:	Aug-04-19	15:34	Aug-04-19	15:54								
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		<14.9	14.9	<15.0	15.0								
Diesel Range Organics (DRO)		<14.9	14.9	<15.0	15.0								
Motor Oil Range Hydrocarbons (MRO)		<14.9	14.9	<15.0	15.0								
Total TPH		<14.9	14.9	<15.0	15.0								

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Jessica Kramer Project Assistant



Certificate of Analysis Summary 632659

Tetra Tech- Midland, Midland, TX

Project Name: Cabo Blanco State 1H (4-29-19)



Project Id:212C-MD-01849Contact:Mike CarmonaProject Location:Lea County, New Mexico

Date Received in Lab:Wed Jul-31-19 04:22 pmReport Date:05-AUG-19Project Manager:Jessica Kramer

	Lab Id:	632659-0)19	632659-0	20	632659-0	21	632659-0)22	632659-0	023	632659-0	24
An aluaia De an este d	Field Id:	T-3(6')	T-3 (7'))	T-3 (8))	T-4 (0-	1')	T-4 (1)	T-4 (2')	
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-30-19 (00:00	Jul-30-19 0	0:00	Jul-30-19 0	00:00	Jul-30-19 (00:00	Jul-30-19 (00:00	Jul-30-19 0	0:00
BTEX by EPA 8021B	Extracted:							Jul-31-19	7:00	Jul-31-19	17:00		
	Analyzed:							Aug-01-19	10:56	Aug-01-19	11:16		
	Units/RL:							mg/kg	RL	mg/kg	RL		
Benzene								< 0.00198	0.00198	< 0.00200	0.00200		
Toluene								< 0.00198	0.00198	< 0.00200	0.00200		
Ethylbenzene								< 0.00198	0.00198	< 0.00200	0.00200		
m,p-Xylenes								< 0.00397	0.00397	< 0.00400	0.00400		
o-Xylene								< 0.00198	0.00198	< 0.00200	0.00200		
Total Xylenes								< 0.00198	0.00198	< 0.00200	0.00200		
Total BTEX								< 0.00198	0.00198	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	Aug-01-19	18:30	Aug-01-19	18:30	Aug-01-19	18:30	Aug-01-19	18:30	Aug-01-19	18:30	Aug-01-19	8:30
	Analyzed:	Aug-02-19	02:00	Aug-02-19 (02:06	Aug-02-19 (02:13	Aug-02-19	02:19	Aug-02-19	02:25	Aug-02-19 (02:31
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		52.9	4.95	19.4	4.96	52.4	5.03	262	5.04	95.4	5.01	22.2	5.01
TPH by SW8015 Mod	Extracted:							Aug-02-19	09:00	Aug-02-19	09:00		
	Analyzed:							Aug-04-19	16:14	Aug-04-19	16:35		
	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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Jessica Kramer Project Assistant



Mike Carmona

Lea County, New Mexico

Contact:

Project Location:

Certificate of Analysis Summary 632659

Tetra Tech- Midland, Midland, TX

Project Name: Cabo Blanco State 1H (4-29-19)



Date Received in Lab:Wed Jul-31-19 04:22 pmReport Date:05-AUG-19Project Manager:Jessica Kramer

	Lab Id:	632659-0	25	632659-0	26	632659-0	27		
Analysis Requested	Field Id:	T-4 (3'))	T-4 (4')		T-4(5')			
Analysis Kequestea	Depth:								
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jul-30-19 0	0:00	Jul-30-19 0	0:00	Jul-30-19 0	0:00		
Chloride by EPA 300	Extracted:	Aug-01-19	18:30	Aug-01-19	7:00	Aug-01-19 1	17:00		
	Analyzed:	Aug-02-19 (02:50	Aug-01-192	21:34	Aug-01-19 2	21:53		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		24.0	4.95	36.7	4.98	42.9	4.95		

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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: Cabo Blanco State 1H (4-29-19)

	rders : 632659 #: 3097186	9, Sample: 632659-001 / SMP	Bate		212C-MD-0 Soil	1849	
Units:	mg/kg	Date Analyzed: 08/01/19 08:55	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	obenzene		0.0319	0.0300	106	70-130	
4-Bromoflu	orobenzene		0.0343	0.0300	114	70-130	
Lab Batch	#: 3097186	Sample: 632659-002 / SMP	Batc	h: 1 Matrix	: Soil	·	
Units:	mg/kg	Date Analyzed: 08/01/19 09:15	SU	RROGATE R	ECOVERY S	STUDY	
		K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes			լոյ		
1,4-Difluoro	obenzene		0.0322	0.0300	107	70-130	
4-Bromoflu	orobenzene		0.0336	0.0300	112	70-130	
Lab Batch	#: 3097186	Sample: 632659-007 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/01/19 09:35	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0315	0.0300	105	70-130	
4-Bromoflu	orobenzene		0.0328	0.0300	109	70-130	
Lab Batch	#: 3097186	Sample: 632659-008 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/01/19 09:56	st	RROGATE R	ECOVERY S	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
140.0	1	Analytes	0.0015	0.0200		50.100	
1,4-Difluoro 4-Bromoflu			0.0315	0.0300	105	70-130	
	#: 3097186	Sample: 632659-013 / SMP	0.0323 Batc	0.0300 h: 1 Matrix	108	70-130	
Units:	mg/kg	Date Analyzed: 08/01/19 10:16		RROGATE R		STUDY	
		X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro			0.0327	0.0300	109	70-130	
4-Bromoflu			0.0327				
	orochizelle		0.0344	0.0300	115	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: Cabo Blanco State 1H (4-29-19)

Work Orders Lab Batch #: 30		Sample: 632659-014 / SMP	Batc		212C-MD-0 Soil		
Units: mg	g/kg	Date Analyzed: 08/01/19 10:36	SU	JRROGATE R	ECOVERY S	STUDY	
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorobenzer	ne		0.0310	0.0300	103	70-130	
4-Bromofluoroben	zene		0.0315	0.0300	105	70-130	
Lab Batch #: 30	97186	Sample: 632659-022 / SMP	Batc	h: 1 Matrix	: Soil		
Units: mg	g/kg	Date Analyzed: 08/01/19 10:56	SU	RROGATE R	ECOVERY S	STUDY	
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenze		Analytes	0.0214	0.0200		70.120	
4-Bromofluorobenze			0.0314	0.0300	105	70-130	
Lab Batch #: 30		Sample: 632659-023 / SMP	0.0330 Batc		_	/0-130	
		-					
	g/kg	Date Analyzed: 08/01/19 11:16	SU	JRROGATE R	ECOVERY S	STUDY	
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorobenze	ne		0.0325	0.0300	108	70-130	
4-Bromofluoroben	zene		0.0309	0.0300	103	70-130	
Lab Batch #: 30	97503	Sample: 632659-001 / SMP	Batc	h: 1 Matrix	: Soil		
Units: mg	g/kg	Date Analyzed: 08/04/19 13:35	SU	RROGATE R	ECOVERY S	STUDY	
		y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chlanssetere		Analytes	01.0	00.0		70.105	
1-Chlorooctane o-Terphenyl			91.9	99.9	92	70-135	
Lab Batch #: 30	97503	Sample: 632659-002 / SMP	45.6 Bate	50.0 h: 1 Matrix:	91	70-135	
	g/kg	Date Analyzed: 08/04/19 14:34		JRROGATE R		TUDY	
	TPH h	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chlana (Analytes	01.4	00.0		70.105	
1-Chlorooctane			91.4	99.9	91	70-135	
o-Terphenyl			45.3	50.0	91	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: Cabo Blanco State 1H (4-29-19)

Work Ord Lab Batch #:		9, Sample: 632659-007 / SMP	Batc		212C-MD-0 Soil	1849	
Units:	mg/kg	Date Analyzed: 08/04/19 14:54	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctan	e		89.3	99.8	89	70-135	
o-Terphenyl			44.4	49.9	89	70-135	
Lab Batch #:	3097503	Sample: 632659-008 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/04/19 15:14	SU	RROGATE R	ECOVERY S	STUDY	
		by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chlorooctan	e		92.9	99.9	93	70-135	
o-Terphenyl			45.7	50.0	91	70-135	
Lab Batch #:	3097503	Sample: 632659-013 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/04/19 15:34	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctan	e		95.0	99.6	95	70-135	
o-Terphenyl			47.1	49.8	95	70-135	
Lab Batch #:	3097503	Sample: 632659-014 / SMP	Batc	h: 1 Matrix	: Soil	·	
Units:	mg/kg	Date Analyzed: 08/04/19 15:54	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctan	e	Anaryus	94.1	100	94	70-135	
o-Terphenyl	-		46.5	50.0	93	70-135	
Lab Batch #:	3097503	Sample: 632659-022 / SMP	Batc			,0155	
Units:	mg/kg	Date Analyzed: 08/04/19 16:14		RROGATE R		STUDY	
		by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 (11)		Analytes				-	
1-Chlorooctan	e		91.4	99.7	92	70-135	
o-Terphenyl			45.3	49.9	91	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: Cabo Blanco State 1H (4-29-19)

Units:	mg/kg	Date Analyzed: 08/04/19 16:35	SUL	ROGATE R	ECOVERV	STUDY	
		by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	tane		93.6	99.9	94	70-135	
o-Terpheny	1		46.2	50.0	92	70-135	
Lab Batch	#: 3097186	Sample: 7683198-1-BLK / I	BLK Batch	: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 07/31/19 09:34	SUF	ROGATE R	ECOVERY S	STUDY	
		K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1,4-Difluor			0.0306	0.0300	102	70-130	
4-Bromoflu			0.0288	0.0300	96	70-130	
Lab Batch	#: 3097503	Sample: 7683384-1-BLK / I	BLK Batch	: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 08/04/19 12:36	SUF	RROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	tane		88.4	100	88	70-135	
o-Terpheny	1		44.7	50.0	89	70-135	
Lab Batch	#: 3097186	Sample: 7683198-1-BKS / H	BKS Batch	: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 07/31/19 07:52	SUF	RROGATE R	ECOVERY S	STUDY	
		K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1,4-Difluor			0.0307	0.0300	102	70-130	
4-Bromoflu			0.0331	0.0300	110	70-130	
	#: 3097503	Sample: 7683384-1-BKS / H					
Units:	mg/kg	Date Analyzed: 08/04/19 12:55	SUF	RROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct		-	110	100	110	70-135	
1					1		

* 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: Cabo Blanco State 1H (4-29-19)

	ders : 632659 #: 3097186	9, Sample: 7683198-1-BSD / I	BSD Bate		: 212C-MD-0 : Solid	1849	
Units:	mg/kg	Date Analyzed: 07/31/19 08:12	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0312	0.0300	104	70-130	
4-Bromofluc	orobenzene		0.0348	0.0300	116	70-130	
Lab Batch	#: 3097503	Sample: 7683384-1-BSD / I	BSD Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 08/04/19 13:15	SU	RROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chloroocta	ane		123	100	123	70-135	
o-Terphenyl			52.3	50.0	105	70-135	
Lab Batch	#: 3097186	Sample: 632524-001 S / MS	B Batcl	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/01/19 07:14	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0313	0.0300	104	70-130	
4-Bromofluc	orobenzene		0.0368	0.0300	123	70-130	
Lab Batch	#: 3097503	Sample: 632659-001 S / MS	B Batcl	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/04/19 13:54	SU	RROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chloroocta			124	99.7	124	70-135	
o-Terphenyl			49.7	49.9	100	70-135	
	#: 3097186	Sample: 632524-001 SD / N				, 0 155	
Units:	mg/kg	Date Analyzed: 08/01/19 07:34		RROGATE R		STUDY	
		K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1,4-Difluoro			0.0320	0.0300	107	70-130	
4-Bromofluc	orobenzene		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: Cabo Blanco State 1H (4-29-19)

	r ders : 63265 #: 3097503	9, Sample: 632659-001 SD / N	MSD Batch	Project ID: 1 Matrix:		1849	
Units:	mg/kg	Date Analyzed: 08/04/19 14:14	SU	RROGATE RE	ECOVERY S	STUDY	
	TPHI	oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		116	99.8	116	70-135	
o-Terpheny	1		49.4	49.9	99	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



BS / BSD Recoveries



Project Name: Cabo Blanco State 1H (4-29-19)

Work Order	#: 632659							Proj	ect ID:	212C-MD-0)1849	
Analyst:	ALG	D	ate Prepar	red: 07/31/201	.9			Date A	nalyzed: (07/31/2019		
Lab Batch ID:	Sample: 7683198-1	-BKS	Batc	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUE	ΟY	
	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	tes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene		< 0.00200	0.100	0.102	102	0.100	0.0987	99	3	70-130	35	
Toluene		< 0.00200	0.100	0.100	100	0.100	0.0947	95	5	70-130	35	
Ethylbenze	ene	< 0.00200	0.100	0.114	114	0.100	0.108	108	5	70-130	35	
m,p-Xylen	es	< 0.00400	0.200	0.230	115	0.200	0.220	110	4	70-130	35	
o-Xylene		< 0.00200	0.100	0.111	111	0.100	0.107	107	4	70-130	35	
Analyst:	SPC	D	ate Prepar	red: 08/01/201	.9			Date A	nalyzed: (08/01/2019		
Lab Batch ID:	Sample: 7683354-1	-BKS	Bate	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUE	ΟY	
Analy	Chloride by EPA 300 tes	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		<5.00	250	267	107	250	266	106	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: Cabo Blanco State 1H (4-29-19)

Work Order	r #: 632659							Proj	ect ID: 2	212C-MD-0)1849	
Analyst:	SPC	Da	ate Prepar	ed: 08/01/201	9			Date A	nalyzed: 0	8/02/2019		
Lab Batch ID	: 3097448 Sample: 7683356-1-	BKS	Batcl	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUE	ΟY	
Analy	Chloride by EPA 300	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	,	<5.00	250	271	108	250	271	108	0	90-110	20	
Analyst:	SPC	D:	ate Prepar	ed: 08/01/201	.9	1	1	Date A	nalyzed: (8/02/2019	l	ļ
Lab Batch ID	Sample: 7683357-1-	BKS	Batcl	h #: 1					Matrix: S	olid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUE	ΟY	
	Chloride by EPA 300	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	ytes	1.88	250	269	108	250	268	107	0	90-110	20	
						230	208				20	
Analyst:	ARM		-	ed: 08/02/201	9				nalyzed: ()			
Lab Batch ID Units:	Sample: 7683384-1-	BV2	Batch	h #: 1					Matrix: S	ona		
I Inns.	malta											
emis.	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUE	ΟY	
Analy	TPH by SW8015 Mod	Blank Sample Result [A]	BLAN Spike Added [B]	K /BLANK S Blank Spike Result [C]	SPIKE / 1 Blank Spike %R [D]	BLANK S Spike Added [E]	Blank Blank Spike Duplicate Result [F]	LICATE Blk. Spk Dup. %R [G]	RECOVI RPD %	Control Limits %R	DY Control Limits %RPD	Flag
Analy	TPH by SW8015 Mod	Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD	Control Limits	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



Project Name: Cabo Blanco State 1H (4-29-19)



Work Order # :	632659						Project II): 212C-1	MD-0184	9		
Lab Batch ID:	3097186	QC- Sample ID:	632524	-001 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	08/01/2019	Date Prepared:	07/31/2	019	An	alyst: A	ALG					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	BTEX by EPA 8021B	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]		[D]	[E]		[G]				
Benzene		< 0.00199	0.0994	0.0885	89	0.100	0.0799	80	10	70-130	35	
Toluene		< 0.00199	0.0994	0.0807	81	0.100	0.0701	70	14	70-130	35	
Ethylbenzene		< 0.00199	0.0994	0.0878	88	0.100	0.0747	75	16	70-130	35	
m,p-Xylenes		<0.00398	0.199	0.165	83	0.200	0.135	68	20	70-130	35	X
o-Xylene		<0.00199	0.0994	0.0838	84	0.100	0.0699	70	18	70-130	35	
Lab Batch ID:	3097307	QC- Sample ID:	632560	-006 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	08/01/2019	Date Prepared:	08/01/2	019	An	alyst: S	SPC					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	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]	Ktsutt [1]	[G]				
Chloride		260	252	542	112	252	543	112	0	90-110	20	X
Lab Batch ID:	3097307	QC- Sample ID:	632659	-026 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	08/01/2019	Date Prepared:	08/01/2	019	An	alyst: S	SPC					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
		D t		Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	
	Chloride by EPA 300	Parent Sample Result	Spike Added	Result	Sample %R	Spike Added	Spiked Sample Result [F]	Dup. %R	RPD %	Limits %R	Limits %RPD	Flag
	Chloride by EPA 300 Analytes	Sample					Spiked Sample Result [F]					Flag

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.



Project Name: Cabo Blanco State 1H (4-29-19)



Work Order # :	632659						Project II): 212C-N	MD-01849	9		
Lab Batch ID:	3097312	QC- Sample ID:	632659	-014 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	08/02/2019	Date Prepared:	08/01/2	019	An	alyst: S	SPC					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	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	701		
Chloride		33.6	252	303	107	252	302	107	0	90-110	20	
Lab Batch ID:	3097312	QC- Sample ID:	632659	-024 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	08/02/2019	Date Prepared:	08/01/2	019	An	alyst: S	SPC					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	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]	[C]	[D]	[E]	Kesuit [F]	70K [G]	/0	701	70KI D	
Chloride		22.2	251	294	108	251	294	108	0	90-110	20	
Lab Batch ID:	3097448	QC- Sample ID:	632623	-006 S	Ba	tch #:	1 Matrix	c: Soil				
Date Analyzed:	08/02/2019	Date Prepared:	08/01/2	019	An	alyst: S	SPC					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	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]	L - J	[D]	[E]		[G]				
Chloride		119	249	369	100	249	368	100	0	90-110	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.



Project Name: Cabo Blanco State 1H (4-29-19)



Work Order # :	632659						Project II): 212C-1	MD-0184	9		
Lab Batch ID:	3097448	QC- Sample ID:	632659	-004 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed:	08/02/2019	Date Prepared:	08/01/2	019	An	alyst: S	SPC					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY	STUDY		
С	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]	[C]	[D]	[E]	Kesuit [F]	⁷⁶ K [G]	70	70K	70KFD	
Chloride		13.3	253	282	106	253	291	110	3	90-110	20	
Lab Batch ID:	3097503	QC- Sample ID:	632659	-001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	08/04/2019	Date Prepared:	08/02/2	019	An	alyst: A	ARM					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY	STUDY		
T	PH by SW8015 Mod	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]	incount [1]	[G]				
Gasoline Range H	ydrocarbons (GRO)	<7.98	997	984	99	998	994	100	1	70-135	20	
Diesel Range Orga	anics (DRO)	<8.10	997	919	92	998	939	94	2	70-135	20	

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

		Relinquished by:	Helinquished by:		Relinquished by:		-									(LAB USE)	LAB #		Comments: F	Receiving Laboratory:	Invoice to:	Project Location: state)	Project Name:	Client Name:		Analysis Req
		Date: Time:	Date: Time:			T-2 (3')	T-2 (2')	T-2 (1')	T-2 (0-1')	T-1 (5')	T-1 (4')	T-1 (3')	T-1 (2')	T-1 (1')	T-1 (0-1)		SAMPLE IDENTIFICATION		Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sa exceeds 100 mg/kg.	ry: Xenco	lke Tavarez	(county, Lea County, New Mexico	Cabo Blanco State 1H (4-29-19)	COG	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY		Received by:	Received by:	NIK.	Rebeived by:	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	DATE	YEAR: 2019	SAMPLING	otal BTEX exceeds 5	Sampler Signature:		Project #:		Site Manager:		
		Date:	Date:		A A Date:	×	×	×	×	×	×	×	×	×	×	WATE SOIL HCL	R	MATRIX	0 mg/kg. Run d	Devin Do		212C-MD-01849		Mike Carmona	900 West Wal Midland,T Tel (432 Fax (432	
		e: Time:	le: Time:	9 14 J	Time	×	X	×	×	×	×	×	×	×	×	HNO ₃ ICE None		PRESERVATIVE METHOD	mple	Devin Dominguez		D-01849		ona	900 West Wall Street, Sie 100 Midland,Texas 79701 Tel (422) 682-4559 Fax (432) 682-3946	
				Ś	S	1 N	1 N	1 N	1 N	-1 N	L N	N L	٦ N	-1 Z	1 N	# CON ⁻ FILTER			if TPH							
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(Circle) HAND DELIVERED		Ś	Sample Temperature					×	×					×					- DRO - C	DRO - N	/IRO)					baluso
4D DE	•	3	iperatu	r C	n Ç											PAH 82 Total Me		Aa As E	Ba Cd Cr	Pb Se ł	Ha		<u> </u>	<u>ì</u>		E
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	Special Report Limits or TRRP Report	đ														Chloride		Sulfate	TDS		ab! '	(at)				1
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	Helinquisned by:		Relinquished by:		Doling linkod by										(LAB USE)	LAB #		comments: P	abora	Invoice to:	Project Location: state)	Project Name:	Client Name:	Antonyoteneous	Analysis Requ
	Date: lime:		Date: Time:) 1/31/19 1600		T-3 (6')	T-3 (5')	T-3 (4')	T-3 (3')	T-3 (2')	T-3 (1')	T-3 (0-1')	T-2 (5')	T-2 (4')		SAMPLE IDENTIFICATION		Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sam exceeds 100 mg/kg.	y: Xenco	lke Tavarez	(county, Lea County, New Mexico	Cabo Blanco State 1H (4-29-19)	COG	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	Received by:		Received by:	Hacelved by:	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	DATE	YEAR: 2019	SAMPLING	tal BTEX exceed	Sampler Signature:		Project #:		Site Manager:		
γq	_		-	L J	×	×	×	×	×	×	×	×	X	×	TIME WATEF SOIL	2	i MATRIX	s 50 mg/kg. Rur	Devin		212C-		Mike Carmona	900 West Midla Tel (Fax	
	Date: Time:		Date! Time:	Silla (×	×	×	×	×	×	×	×	×	×	HCL HNO ₃ ICE None		PRESERVATIVE METHOD	n deeper sample	Devin Dominguez		212C-MD-01849		mona	900 West Wall Street, Ste 100 Midland,Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946	
				C l	 	1 N	-1 Z	-1 Z	-1 Z	→ z	-1 Z	- N	1 N	L L	# CONT/ FILTERE			e if TPH							
(¢ircle)	14.5	.	Sam	LAB							×	×			BTEX 80	21B	BTE	EX 8260	В						
	3,3		Sample Temperature	B USE							×	×			TPH TX1 TPH 801	5M (ORO - I	MRO)					0
HAND DELIVERED	3.1		perature	ONLY			-								PAH 827 Total Met		g As E	Ba Cd Cr	Pb Se	Hg		$-\hat{\mathbf{G}}$	ò		
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	Special Report Limits or TRRP Report		48 hr		\vdash		-	-	-	-	-	-			General \ Anion/Ca				see atta	ached	list)	<u>~</u>			
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	Heiinquisned by:		Relinquished by:	Å	Relinquished by:										(LAB USE)	LAB #		comments: RL	abora	invoice to:	Project Location: state)	Project Name:			Analysis Requ
ORIGINAL COPY	Date: Time:			10	Date: Time:			1-4 (5')	T-4 (4')	T-4 (3')	T-4 (2')	T-4 (1')	T-4 (0-1')	T-3 (8')		SAMPLE IDENTIFICATION		Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sam exceeds 100 mg/kg.	r Xenco	lke Tavarez	^{(county,} Lea County, New Mexico Ike Tavarez	Cabo Blanco State 1H (4-29-19)	COG	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
	Received by: Date: Time:		Received by:	Hapelved by				7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	DATE	YEAR: 2019	SAMPLING	tal BTEX exceeds	Sampler Signature:		Project #:		Site Manager:		
		ţ,		512				×	×	×	×	×	×	×	WATEF SOIL	R MATRIX	MATRIX	Devin E 50 mg/kg. Run	212C-N	212C-N		Mike Carmona	900 West W Midland Tel (43 Fax (43		
			Date: Time:		Ē		×	×		×	×	HCL HNO ₃ ICE None		PRESERVATIVE METHOD	deeper sample	Devin Dominguez		212C-MD-01849		iona	900 West Wall Street, Ste 100 Midland,Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946				
			0							1		-1		-1	# CONT/) if TPH							
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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: 07/31/2019 04:22:00 PM	Air and Metal samples Acceptable Range: Ambient								
Work Order #: 632659	Temperature Measuring device used : R8								
Sample Recei	pt Checklist Comments								
#1 *Temperature of cooler(s)?	3.1								
#2 *Shipping container in good condition?	Yes								
#3 *Samples received on ice?	Yes								
#4 *Custody Seals intact on shipping container/ cooler?	N/A								
#5 Custody Seals intact on sample bottles?	N/A								
#6*Custody Seals Signed and dated?	N/A								
#7 *Chain of Custody present?	Yes								
#8 Any missing/extra samples?	Νο								
#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: 07/31/2019

Checklist reviewed by: fession Kramer

Jessica Kramer

Date: 07/31/2019