District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

)

Page 1 of 144

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**

Longitude

Latitude		

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

(NAD 83 in decimal degrees to 5 decimal places)

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		

Page	2
B-	_

### Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 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:	Date:

### Received by OCD: 3/7/2024 8:29:54 AM

			*****	LIQU	D SPILLS	- VOLU	IME CALCULATIO	NS *****					
Locati	on of spill:		Roy Batty F	ederal Co	om #3H	_	Date of Spill:	29-Ai	ug-20′	19			
			If the leak/s	pill is as	sociated with	oroductio	n equipment, i.e wellhead	d, stuffing box,					
		fl	owline, tank b	attery, pr	oduction vessel	l, transfer p	oump, or storage tank place	e an "X" here:	X				
						Input I	Data:						
If spill vol	lumes from	measu	rement, i.e. m	netering, 1	ank volumes, e	tc. are kno	own enter the volumes here:	OIL: 0.0 E	BL	WATER: 0.0 BE	BL		
lf "known"	spill volur	nes are	e given, inpu	t data for	the following	"Area Cal	lculations" is optional. Th					umes.	
	Total A	rea Ca	alculations	5				Standing Li	iquid	Calculation	IS		
Total Surface Area	width		length		wet soil depth	oil (%)	Standing Liquid Area	width		length		liquid depth	oil (%)
Rectangle Area #1	11 ft		125 ft	Х	1.00 in	0%	Rectangle Area #1	<mark>0</mark> ft		0 ft	Х	0 in	0%
Rectangle Area #2	59 ft	X	85 ft	X	1 in	0%	Rectangle Area #2		X	0 ft	X	0 in	0%
Rectangle Area #3 Rectangle Area #4	8 ft 0 ft	X X	405 ft 0 ft	X X	1 in 0 in	0% 0%	Rectangle Area #3 Rectangle Area #4			0 ft 0 ft	X X	0 in 0 in	0% 0%
Rectangle Area #5	0 ft	x	0 ft	X	0 in	0%	Rectangle Area #5			0 ft	x	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	x	0 in	0%	Rectangle Area #6			0 ft	X	0 in	0%
Rectangle Area #7	0 ft	Х	0 ft	Х	0 in	0%	Rectangle Area #7		Х	0 ft	Х	0 in	0%
Rectangle Area #8	0 ft	Х	0 ft	Х	0 in	0%	Rectangle Area #8		X	<mark>0</mark> ft	Х	0 in	0%
						ekey							
			prod	uction s	stem leak - D/	okay MUY PROI	DUCTION DATA REQUIRE	ס					
Average Daily Production:	Oil 0	BBL		BBL		(MCFD)		.0					
							Total Hydrocarbon C	Content in gas:	0%	(percentage)			
Did leak occur before the separ	rator?:		YES	N/A	(place an "X'	")	H2S Content in F	Produced Gas:	0	PPM			
_							H2S Content in	Tank Vapors:	0	PPM			
Amount of Free Liquid Recovered:	0 BB	L		okay			Percentage of Oil	in Free Liquid Recovered:	0%	(percentage)			
Liquid holding factor *:	0.14 gal	per gal			ng when the spill w gallon (gal.) liquid							e pore space of the	
							gal. volume of soil.	* Clay loam = 0.20				oarriers, natural (or n ii	01).
					am soil = 0.14 gal			* Gravelly (caliche					
					.16 gal. liquid per			* Sandy loam = 0.					
Total Solid/Liquid Volume:	9,630 sq.	ft.	803 cu.	. ft.	cu. 1	ft.	Total Free Liquid Volume:	s	q. ft.	cu	. ft.	cu.	ft.
Estimated Volumes	Spilled						Estimated Productio	n Volumes Los	t				
			<u>H2O</u>						-	<u>H2O</u> 0.0 BE		<u>OIL</u> 0.0 BB	
	in Soil: Liquid:		20.0 BB <u>0.0</u> BB	L	0.0 BBL <u>0.0</u> BBL		Estimated Prod	luction Spilled:		0.0 BE	5L	<b>0.0</b> BB	L
	Totals:		20.0 BB	SL.	0.0 BBL	-	Estimated Surfa Surface Area:		q. ft.				
Total Liquid Spill	Liquid:		20.0 BB	L	0.00 BBL	-	Surface Area:	.2211 a	cre				
Recovered Volun	nes						Estimated Weights	<u>, and Volumes</u>					
Estimated oil recovered:	BB	L	с	heck - ok	av		Saturated Soil =	89.880 lt	os	803 cu	ft.	30 cu.	vds.
Estimated water recovered:	BB			heck - ok	· •		Total Liquid =		BL	840 ga	llon	6,992 lbs	
							1			5		-,	
Air Emission from flowl	ine leaks:						Air Emission of Report	ing Requiremer	nts:				
Volume of oil spill:	- BB							New Mexico			xas		
Separator gas calculated:	- MC						HC gas release reportable?			NC			
Separator gas released:	- MC	F					H2S release reportable?	NO		NC	)		
Gas released from oil:	- Ib												
H2S released:	- lb												
Total HC gas released:	- lb	-											
Total HC gas released:	- MC	۲.											



March 6, 2024

District Supervisor Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Additional Site Characterization, Revised Closure Request, and Reclamation Report ConocoPhillips Company (Heritage COG Operating, LLC) Roy Batty Fed Com #3H Release Unit Letter N, Section 11, Township 24 South, Range 33 East Lea County, New Mexico Incident ID# nRM1927338634

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to address the comments provided by the New Mexico Oil Conservation Division (NMOCD) for a denied closure request associated with a historic Heritage COG Operating, LLC release and subsequent remedial actions completed at the Roy Batty Fed Com #3H release site, located on privately-owned land at coordinates 32.226487°, -103.546319°.

### BACKGROUND

According to the State of New Mexico C-141 Initial Report the release was discovered on August 29, 2019. Approximately 60 barrels of produced water was released to the lease road and pasture due to a corroded flowline. A vacuum truck was dispatched to remove all freestanding fluids, recovering around 40 barrels of produced water. The release occurred along the lease road impacting an area measuring approximately 629 feet by 5 feet and migrated north into the pasture impacting an area measuring approximately 89 feet by 26 feet. The NMOCD assigned the release the Incident ID nRM1927338634.

### **CLOSURE REPORT AND NMOCD REJECTION**

Tetra Tech performed soil assessment activities at the release site on October 9, 2019. Based on the results of the soil assessment, soil remediation activities were performed at the site from December 19, 2019 and January 14, 2020. A Closure Report describing the site assessment and remedial activities was submitted to the NMOCD on April 27, 2020 (Attachment B). The closure request was rejected by Robert Hamlet via email on Tuesday, June 23, 2020, with the following comments:

- "When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.
- If you feel the depth to groundwater is >50', a shallow borehole can be drilled to 51' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the driller's log."

### **REVISED SITE CHARACTERIZATION**

In an email to the NMOCD from Sheldon Hitchcock of COG Operating, LLC dated July 31, 2020, Mr. Hitchcock stated that a borehole was installed at the site to a depth of 60 feet below surface and that no groundwater was encountered during the installation. Mr. Hitchcock went on to state that the borehole would be gauged for the presence of groundwater on the morning of July 3, 2020. No further correspondence or information regarding the groundwater borehole are available in the OCD Permitting files. Copies of the regulatory correspondence are included as Attachment B.

This unresolved matter was identified during a recent review of open incidents performed by ConocoPhillips. Following a review of the site files, the driller's log was located for the depth to water (DTW) boring. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as

greater than 50 feet below ground surface (bgs). The borehole coordinates are approximately 32.225714°, - 103.540550°, as indicated in Figure 1. The Tetra Tech boring log and driller's well log are included in Attachment C.

### SITE RECLAMATION

#### **Executive Summary**

Site reclamation activities were performed in accordance with 19.15.29.13 NMAC at the time of the remediation. Remediation and reclamation activities were performed on December 19, 2019 through January 14, 2020. Areas were excavated as shown on Figure 4 of the previously submitted Closure Report (Attachment A). The areas characterized by AH-1, AH-2, and AH-6 were excavated to 4-4.5 feet bgs. The impacted area on the lease road adjacent to the areas of AH-1 and AH-2 was scraped to a depth of 6 inches bgs. A total of thirteen (13) bottom hole composite samples and twenty-two (22) composite sidewall samples were collected every 200 square feet and analyzed for TPH via method 8015 extended, BTEX via method 8021B, and chloride via method SM4500. The confirmation analytical results are presented in Table 1 of the Closure Report (Attachment A).

Confirmation sampling results associated with NSW-1 and NSW-2, which were located beneath the surface pipeline, exceeded the chloride reclamation limit of 600 mg/kg. Therefore, the excavation was expanded in these areas to remove soils impacted above the chloride reclamation limit and results were confirmed with composite bottom hole samples Bottomhole-12 and Bottomhole-13. All final confirmation sampling results were below the reclamation limits for all constituents.

Approximately 480 cubic yards of material were excavated and transported offsite for proper disposal. The area was then backfilled with clean material to surface grade and seeded to establish vegetation.

#### **Revegetation Plan**

A site visit was performed on February 2, 2024 to evaluate current site conditions and monitor the progress of revegetation. At the time of the site visit, the remediated/reclaimed area south of the lease road (characterized by assessment sampling location AH-6 and confirmation sampling location Bottomhole-10) was fully revegetated to predisturbance levels.

The remediated/reclaimed area north of the lease road (characterized by assessment sampling locations AH-1 and AH-2) exhibited vegetative cover that reflects a life-form ratio of less than plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of less than seventy percent of pre-disturbance levels. Photographic documentation from the February 2, 2024 site visit is presented in Attachment D.

The remediated/reclaimed area north of the lease road will be reseeded with BLM Seed Mix #2 in the first favorable growing season. Site inspections will be performed annually to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. A final revegetation report will be submitted to the NMOCD when uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of predisturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds.

### CONCLUSION

ConocoPhillips respectfully requests remediation and reclamation closure of the release based on the requested information in conjunction with the NMOCD rejection for this incident site. The attached boring log demonstrates that the depth to groundwater is greater than 50 feet below surface at the site. A final revegetation report will be prepared and submitted to the NMOCD when uniform vegetative cover has been established in accordance with 19.15.29.13 NMAC.

Received by OCD: 3/7/2024 8:29:54 AM

March 6, 2024

ConocoPhillips

If you have any questions regarding this information, please call me at (512) 739-7874 or Christian at (512) 288-6281.

Sincerely, Tetra Tech, Inc.

Samantha K. Abbott, P.G. Project Manager

cc: Mr. Jacob Laird, GPBU - ConocoPhillips

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Christian M, Llull, P.G. Program Manager

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ConocoPhillips

March 6, 2024

### LIST OF ATTACHMENTS

Figure 1 – Former Release Extent and DTW Boring Location

Attachment A - Closure Report (April 27, 2020)

Attachment B – Regulatory Correspondence

Attachment C – DTW Boring Log

Attachment D – Photographic Documentation (February 2, 2024)

.

## FIGURES



## ATTACHMENT A CLOSURE REPORT (APRIL 27, 2020)

	Report	Type: Clo	osure Repo	ort NRN	/192733	8634	
General Site Info	ormation:						
Site:		Roy Batty Fe	d Com #3H				
Company:		COG Operati	ng LLC				
Section, Townsh	nip and Range	Unit N Sec. 11 T 24S R 33E					
Lease Number:		API No.					
County:		Lea County					
GPS:			32.22630			-103.	5461
Surface Owner:		Private	(1000)(40				
Directions:         From intersection of HWY 18 and HWY 28 in Jal, travel west on HWY 128for approxim           miles, turn north onto lease road for 0.45 mile to the location on the west side of the lease							
Release Data:							
Date Released:		8/29/2019					
Type Release:		Produced wat	er				
Source of Contan	nination:	Flowline					
Fluid Released:	,	60 bbls					
Fluids Recovered		40 bbls					
Official Commun	nication:						
Name:	Ike Tavarez				Clair Gonza	ales	
Company:	COG Operating, LL	С			Tetra Tech		
Address:	One Concho Cente	r			901 West V	Vall Street	
	600 W. Illinois Ave.				Suite 100		
City:	Midland Texas, 797	01			Midland, Te	exas	
Phone number:	<mark>(432) 686-3023</mark>				(432) 687-8	3110	
Fax:	<mark>(432) 684-7137</mark>						
Email:	itavarez@concho	.com			Clair.Gonz	zales@tetrat	ech.com

Site Characterization	
Depth to Groundwater:	60'
Karst Potential:	Low

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



April 27, 2020

Dylan Rose-Coss Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

## Re: Closure Report for the COG Operating, LLC, Roy Batty Fed Com #3H, Unit N, Section 11, Township 24 South, Range 33 East, Lea County, New Mexico. NRM1927338634

### Mr. Rose-Coss:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating, LLC (COG) to assess and remediate a release that occurred at the Roy Batty Fed Com #3H, Unit N, Section 11, Township 24 South, Range 33 East, Lea County, New Mexico (Site). The spill site coordinates are 32.2263°, -103.5461°. The site location is shown on Figures 1 and 2.

### Background

According to the State of New Mexico, C-141 Initial Report the release was discovered on August 29, 2019, and released approximately 60 barrels of produced water due to a corroded flowline. A vacuum truck was dispatched to remove all freestanding fluids, recovering around 40 barrels of produced water. The release occurred along the lease road impacting an area measuring approximately 629' x 5' and migrated north into the pasture impacting an area measuring approximately 89' x 26' The initial 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 1.25 miles northwest of the site, and has a reported depth to groundwater of 22 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 2.26 miles northeast 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 3,628,' and the surface elevation of the 20' well is approximately 3,608. Based on the relative elevation the depth to groundwater is estimated to be approximately 60' below surface. The groundwater data is shown in Appendix B.

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



### Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 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

Tetra Tech personnel were onsite on October 9, 2019, to assess the release area. A total of eight (8) auger holes (AH-1 through AH-8) were installed in the spill footprint to total depths ranging from 0-1' and 7'-7.5' below surface. Selected soil samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by method SM4500. The sampling results are summarized in Table 1. The sample locations are shown in Figure 3.

Referring to Table 1, none of the samples analyzed showed any benzene, total BTEX, or TPH concentrations above the laboratory reporting limits. Additionally, none of the samples collected showed chloride concentrations above the RRALs. However, concentrations above the reclamation standards were detected in the areas of AH-1, AH-2, and AH-6.

### **Remediation Activities**

Tetra Tech personnel were onsite from December 19, 2019, and January 14, 2020, to supervise the remediation activities. The areas were excavated as shown on Figure 4 and highlighted (green) on Table 1. The areas of AH-1 and AH-2 were excavated to 4.0'-4.5', and the area of AH-6 was excavated to 4.5' below surface. Additionally, the impacted area on the lease road adjacent to the areas of AH-1 and AH-2 was scraped to a depth of 6" below surface. A total of thirteen (13) bottom hole composite samples (Bottomhole-1 through Bottomhole-13) and twenty-two (22) composite sidewall samples (NSW-1 through NSW-7, SSW-1 through SSW-7, ESW-1 through ESW-4, and WSW-1 through WSW-4) were collected every 200 square feet to ensure proper removal of the impacted soils. Selected samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by method SM4500. The sampling results are summarized in Table 1. The excavation depths and sample locations are shown in Figure 4.

Referring to Table 1, none of the confirmation samples showed benzene, total BTEX, or TPH chloride concentrations above the RRALs. Additionally, none of the bottom hole samples collected showed chloride concentrations above the RRALs. Except for NSW-1 and NSW-2, which were collected along a surface line, none of the sidewall samples showed chloride concentrations above 600 mg/kg. The areas of NSW-1 and NSW-2 showed chloride concentrations of 1,640 mg/kg and 3,640 mg/kg, respectively. Based on the laboratory data, the areas of NSW-1 and NSW-2, beneath the surface pipeline, were removed, along with SSW-3 and SSW-4. A composite bottom hole sample (Bottomhole-12 and Bottomhole-13) in this area was then collected, as the sidewall between the two excavation areas had been removed and showed a chloride concentration of 64.0 mg/kg and 752 mg/kg.

Approximately 480 cubic yards of material were excavated and transported offsite for proper disposal. The area was then backfilled with clean material to surface grade.



### Conclusion

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

Respectfully submitted, TETRA TECH

ais Clongalos

Clair Gonzales, P.G., Project Manager

-fline

Mike Carmona Geologist

# Figures

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BATTY FED COM #3\MXD\212C-MD-01962 ROY BATTY FED COM #3 FIG. 1.mxd

ROY

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### Page 17 of 144



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ROY BATTY FED COM #3\MXD\212C-MD-01962 ROY BATTY FED COM #3 FIG.

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4/27/2020



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## Tables

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## Table 1 COG Roy Batty Fed Com #3 Lea County, New Mexico

Sounds ID Sample Excavation Soil Status TPH (mg/kg) Benzene Toluene Ethlybe						Ethlyhonzono	thlybenzene Xylene	Total BTEX	Chloride						
Sample ID	Sample Date	Sample Depth (ft)	Bottom (ft)	In-Situ		GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	Xylene (mg/kg)	(mg/kg)	(mg/kg)
AH-1	10/9/2019	0-1	-		Х	<49.9	<49.9	<49.9	<49.9	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	18.7
	"	1-1.5	-		Х	<49.9	<49.9	<49.9	<49.9	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	33.8
	"	2-2.5	-		Х	-	-	-	-	-	-	-	-	-	90.5
	"	3-3.5	-		Х	-	-	-	-	-	-	-	-	-	1,440
	"	3.5-4	-		Х	-	-	-	-	-	-	-	-	-	5,390
AH-2	10/9/2019	0-1	-		Х	<50.0	<50.0	<50.0	<50.0	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	19.3
	"	1-1.5	-		Х	<49.9	<49.9	<49.9	<49.9	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	17.2
	"	2-2.5	-		Х	-	-	-	-	-	-	-	-	-	56.5
	"	3-3.5	-		X	-	-	-	-	-	-	-	-	-	1,420
	"	4-4.5	-	N	Х	-	-	-	-	-	-	-	-	-	319
		5-5.5	-	X		-	-	-	-	-	-	-	-	-	635
	"	6-6.5 7-7.5	-	X X		-	-	-	-	-	-	-	-	-	1,570 184
AH-3	10/0/2010														
	10/9/2019	0-1	-		Х	<49.8	<49.8	<49.8	<49.8	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	13.3
AH-4	10/9/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	23.2
AH-5	10/9/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	80.9
AH-6	10/9/2019	0-1	-		Х	<50.0	<50.0	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	146
	"	1-1.5	-		Х	-	-	-	-	-	-	-	-	-	1,850
AH-7	10/9/2019	0-1	-	Х		<50.0	<50.0	<50.0	<50.0	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	16.1
AH-8	10/9/2019	0-1	-	Х		<49.8	<49.8	<49.8	<49.8	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	7.78
	"	1-1.5	-	Х		-	-	-	-	-	-	-	-	-	20.8
Bottomhole-1	12/19/2019	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	1,760
Bottomhole-2	12/19/2019	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	592
Bottomhole-3	12/19/2019	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	16.0
Bottomhole-4	12/19/2019	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	<16.0
Bottomhole-5	12/19/2019	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	512
Bottomhole-6	12/20/2019	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	1,120
Bottomhole-7	12/20/2019	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	240
Bottomhole-8	12/20/2019	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	6,000
Bottomhole-9	12/20/2019	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	5,680
Bottomhole-10	1/2/2020		4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	16.0
Bottomhole-11	1/3/2020		0.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	176
Bottomhole-12	1/13/2020	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	64.0
Bottomhole-13	1/13/2020	-	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	752

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## Table 1 COG Roy Batty Fed Com #3 Lea County, New Mexico

Sample ID	Sample Date	Sample	Excavation	Soil	Status		TPH (	mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
•		Depth (ft)	Bottom (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NSW-1	1/3/2020		-		Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	1,640
NSW-2	1/3/2020		-		Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	3,640
NSW-3	12/19/2019		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	<16.0
NSW-4	12/20/2019		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	32.0
NSW-5	1/2/2020		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	<16.0
NSW-6	"		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	272
NSW-7	1/3/2020		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	192
SSW-1	12/20/2019		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	32.0
SSW-2	12/19/2019		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	288
SSW-3	1/2/2020		-		Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	112
SSW-4	"		-		Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	192
SSW-5	"		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	32.0
SSW-6	"		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	16.0
SSW-7	1/3/2020		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	176
ESW-1	12/19/2019		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	112
ESW-2	12/20/2019		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	192
ESW-3	1/2/2020		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	112
ESW-4	1/3/2020		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	144
WSW-1	12/19/2019		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	384
WSW-2	12/20/2019		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	112
WSW-3	1/2/2020		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	48.0
WSW-4	1/3/2020		-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	112

Not Analyzed

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## Photos

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**TETRA TECH** 

## COG Operating LLC Roy Batty Fed Com #3H Lea County, New Mexico



View West – Areas of AH-1 and AH-2





## COG Operating LLC Roy Batty Fed Com #3H Lea County, New Mexico



View West – Excavated Areas of AH-1 and AH-2



View West - Excavated Areas of AH-1 and AH-2









## View South - Surficial scrape along lease road

## COG Operating LLC Roy Batty Fed Com #3H Lea County, New Mexico



View West - Removal of NSW-1 and NSW-2



## Appendix A

State of New Mexico Energy Minerals and Natural Resources Department

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

)

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

### **Responsible Party**

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

### **Location of Release Source**

Latitude	
Latitude	

(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		

Page	2
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### Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 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:	Date:

Received by OCD: 3/7/2024/8:29:54 AMM Form C-141 State of New Mexico

Oil Conservation Division

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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 <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗌 No

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps

Laboratory data including chain of custody

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

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Page 6

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.

<b><u>Closure Report Attachment Checklist</u>:</b> Each of the following it	tems 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 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 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 regula restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the O Printed Name:	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Signature: <u>AB</u>	Date:
email:	Telephone:
OCD Only Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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# Appendix B

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### Water Well Data Average Depth to Groundwater (ft) Roy Batty Lea County, New Mexico

	23 \$	South		32 East	t		23 \$	South	33	8 East			23	South	3	1	
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
,	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
		400				400	400										
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
								400		225	225						
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
	24	South		32 East	I •	<u> </u>	2/ 9	South	33	B East	<u> </u>	<u> </u>	24	South		34 East	 •
6	5	4	3	2	1	6	5	4	3	2	1 <b>81</b>	6	5	4	3	2	1
,	8	9	10 <b>20</b>	11	12	7	8	9	10 20 22	11 Site	12	7	8	9	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
								415		575	390						
9	20	21	22	23	24	19	20	21	22	23 <b>110</b>	24	19	20	21	22	23	24
										208	<b>16.9</b>						
30	29	28	27	26	25	30	29	28	27	26	25 <b>30</b>	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33 <b>70</b>	34	35	36	31	32	33	34	35	36
		290						93.2									
	25 \$	South	3	32 East	t		25 \$	South	33	B East			25	South	3	84 East	Ł
6	5	4	3	2	1	6	5	4	3 172		1	6	5	4	3	2	1
	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
										140	200						
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
							200	120									
80	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	125 34	35	36	31	32	33	34	35	36
1		33	54	55	50		52	33	54	35	30	31	32	33	34	55	30
	290					257											

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

										<u> </u>				
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	O=orphan C=the file	ied,							E 3=SW					
water right file.)	closed)	DOD	(q	uarte	ers a	re si	nalle	st to la	argest)	(NAD8.	3 UTM in meters)	5)	(In feet)	
		POD Sub-			Q									ater
POD Number C 02308	Code	basin CUB	County	-						X (24052		DepthWellDep 40	pthWater Co 20	
		CUB	LE LE		3		10	24S	33E	634953	3567364*			20
02309					2		25	248	33E	639638	3562994*	60	30	30
02310		CUB	LE		3			24S	33E	634437	3560918*	120	70	50
<u>02311</u>		CUB	LE		3			24S	33E	634437	3560918*	120	70	50
02430		CUB	LE		3		16	24S	33E	633377	3564732*	643	415	228
02431		CUB	LE	4			17	24S	33E	633175	3564728*	525	415	110
02432		CUB	LE	4			17	24S	33E	633175	3564728*	640	415	225
<u>)2563</u>		CUB	LE		4		33	24S	33E	634639	3560923*	120		> 、
<u>02564</u>		CUB	LE	2	4			24S	33E	634839	3560923*	120	$/ \wedge$	
<u>2890</u>		С	LE		2		29	24S	33E	633114	3562012*	500	$\checkmark$	$\mathbb{N}$
<u>03565 POD3</u>		CUB	LE		3		08	24S	33E	632763	3566546	$\land$	1533	$\langle \rangle$
<u>03591 POD1</u>		CUB	LE		1		05	24S	33E	632731	3568518			
03600 POD1		CUB	LE	2	2	1	26	24S	33E	637275	3563023	$\langle \langle \rangle$	$\rightarrow$	
<u>03600 POD2</u>		CUB	LE	4	4	1	25	24S	33E	638824	3562329	$\sim$		
<u>3600 POD3</u>		CUB	LE	3	4	2	26	24S	33E	637784	3562340	///	$\mathbf{X}$	
<u>3600 POD4</u>		CUB	LE	3	3	1	26	24S	33E	636617	3562293		$\searrow$	$\sim$
)3600 POD5		CUB	LE	3	2	4	26	24S	33E	6371857	-3562020			((
3600 POD6		CUB	LE	3	1	4	26	24S	33E	637383	3562026	$\bigvee$	$\frown$	
<u>03600 POD7</u>		CUB	LE	3	1	3	26	24S	33E	636726	3561968	$\sim$		$\langle \rangle$
3601 POD1		CUB	LE	4	4	2	23	24S	33E	638124	3563937	$\diamond$	/ / /	))
<u>3601 POD2</u>		CUB	LE	3	2	4	23	24S	83E	637846	3563588	$\sim$		
<u>3601 POD3</u>		CUB	LE	1	3	3	24	24S	33E	638142	3563413		//>	
<u>03601 POD4</u>		CUB	LE	z	S	)E	24	24S	33E	638162	3561375	$\gg$ (( )	$\geq$	
03601 POD5		CUB	LE	2~	> <sub>4</sub>	4	23	245	33E	637988	3563384	$\langle \wedge \rangle$		
) <u>3601 POD6</u>		CUB	LE	1	4	×	23	248	33E	637834	3563338	$\bigcirc$		
<u>3601 POD7</u>		CUB	LE	Æ	×	¥	23	245	33E	637946	3563170	$\mathcal{N}$		
03602 POD2		CUB	LE	4	A	$\wedge$	25	245	> 33E	638824	3562320	$\mathcal{D}$		
03603 POD1	_	сув	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3	(2(	2	<b>3</b> 5[	$\rightarrow_{24S}$	<sup>33E</sup>	637805	3564225			
<u>03603 POD2</u>	$\langle \rangle$	CUB	LE/	3	J	2	-35	24S	(STE	482550/	3561167			
03603 POD3		COB	LE	À	$\mathbb{N}$	7	35	245	338	636890	3561092			
03603 POD4	$\langle \langle \rangle$	ØUB	LE	-3	2	4	35	245	B3E	637789	3560461			
03603 POD5		CUB	LE	3	3	2	35	24S	358	636745	3560767			
) <u>3603 POD6</u>		CUB	LE	3	1	3	35	24S	33E	636749	3560447			
<u>3662 POD1</u>		С	LE	3	1	2	23	24S	33E	637342	3564428	550	110	44(
<u>3666 POD1</u>		С	LE	2	3	4	13	24S	33E	639132	3565078	650	390	260
<u>3679 POD1</u>		С	ED	1	4	2	14	24S	33E	603567	3581547	700	575	125
<u>3917 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
04014 POD3		CUB	LE	2	4	2	01	24S	33E	639497	3569007	95	87	8
)4014 POD4		CUB	LE	3	4	2	01	24S	33E	639295	3568859	96	86	10
04014 POD5		CUB	LE	1	4	2	01	24S	33E	639284	3569086	95	85	10
04339 POD1		CUB	LE	1	3	3	23	24S	33E	636525	3563309	47		
04339 POD10		CUB	LE	4	1	4	23	24S	33E	637688	3563503	49		
04339 POD2		CUB	LE	2	3	3	23	24S	33E	636789	3563315			
04339 POD3		CUB	LE	2	4	3	23	24S	33E	637273	3563323	38		
4339 POD4		CUB	LE		4			24S		637273	3563323	47		
04339 POD5		CUB	LE		3			24S		637580	3563328	54		
04339 POD6		CUB	LE		1					637340	3564386	60		
			-	,			-				*			

. Released to Imaging: 4/17/2024 2:26:52 PM

ceived by OCD: 3/	7/2024 (8129554 24M)	М		
<u>C 04339 POD7</u>	CUB LE 4 4 2	2 23 248 33E 636473 3	564011 43	
C 04339 POD8	CUB LE 1 1 3	3 23 248 33E 636519 3	563681 30	
<u>C 04339 POD9</u>	CUB LE 3 4 2	2 23 248 33E 637731 3	563913 45	
		Aver	age Depth to Water:	300 feet
			Minimum Depth: Maximum Depth:	20 feet 1533 feet
Record Count: 51				
PLSS Search:				
Township: 24S	Range: 33E			
*UTM location was derived fr				
	ISC and is accepted by the recipient wi ss, reliability, usability, or suitability for	th the expressed understanding that the r any particular purpose of the data.	DSE/ISC make no warranties, e	expressed or implied,
/22/19 9:54 AM			WATER COLUMN TO WATER	V/ AVERAGE DEPTH
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National Water Information System: Mapper





Belliake

**32.2263 -103.5461** 

Co Rd 2-A









NFHL Web Mapping Application	
Data Layers	Mez
3005 R	Search Result Y:32.226300 X:-103.546100
100m 100m 300ft	FEMA   Bureau of Land Management, Texa

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# Appendix C

. Released to Imaging: 4/17/2024 2:26:52 PM

## Analytical Report 639515

for Tetra Tech- Midland

**Project Manager: Mike Carmona** 

**Roy Batty** 

### 14-OCT-19

Collected By: Client



#### 1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142), North Carolina (681)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483) Received by OCD: 3/7/2024 (8:29:54 AM M



14-OCT-19

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

Reference: XENCO Report No(s): 639515 Roy Batty Project Address: Lea Co, NM

#### Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 639515. 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. 639515 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 Vermer

Jessica Kramer Project Assistant

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## Sample Cross Reference 639515

### Tetra Tech- Midland, Midland, TX

Roy Batty

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	10-09-19 00:00	0 - 1 ft	639515-001
S	10-09-19 00:00	1 - 1.5 ft	639515-002
S	10-09-19 00:00	2 - 2.5 ft	639515-003
S	10-09-19 00:00	3 - 3.5 ft	639515-004
S	10-09-19 00:00	3.5 - 4 ft	639515-005
S	10-09-19 00:00	0 - 1 ft	639515-006
S	10-09-19 00:00	1 - 1.5 ft	639515-007
S	10-09-19 00:00	2 - 2.5 ft	639515-008
S	10-09-19 00:00	3 - 3.5 ft	639515-009
S	10-09-19 00:00	4 - 4.5 ft	639515-010
S	10-09-19 00:00	5 - 5.5 ft	639515-011
S	10-09-19 00:00	6 - 6.5 ft	639515-012
S	10-09-19 00:00	7 - 7.5 ft	639515-013
S	10-09-19 00:00	0 - 1 ft	639515-014
S	10-09-19 00:00	0 - 1 ft	639515-015
S	10-09-19 00:00	0 - 1 ft	639515-016
S	10-09-19 00:00	0 - 1 ft	639515-017
S	10-09-19 00:00	1 - 1.5 ft	639515-018
S	10-09-19 00:00	0 - 1 ft	639515-019
S	10-09-19 00:00	0 - 1 ft	639515-020
S	10-09-19 00:00	1 - 1.5 ft	639515-021

AH #1 (0-1')
AH #1 (1-1.5')
AH #1 (2-2.5')
AH #1 (3-3.5')
AH #1 (3.5-4')
AH #2 (0-1')
AH #2 (1-1.5')
AH #2 (2-2.5')
AH #2 (3-3.5')
AH #2 (4-4.5')
AH #2 (5-5.5')
AH #2 (6-6.5')
AH #2 (7-7.5')
AH #3 (0-1')
AH #4 (0-1')
AH #5 (0-1')
AH #6 (0-1')
AH #6 (1-1.5')
AH #7 (0-1')
AH #8 (0-1')
AH #8 (1-1.5')

.



## CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Roy Batty

Project ID: Work Order Number(s): 639515 Report Date: 14-OCT-19 Date Received: 10/09/2019

#### Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3104132 BTEX by EPA 8021B Samples 639515-001, 639515-002, 639515-006, 639515-007, 639515-014, 639515-015, 639515-019, and 639515-020 were diluted due to surfactants.

Batch: LBA-3104147 Inorganic Anions by EPA 300/300.1

Lab Sample ID 639515-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 639515-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019. The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.





Certificate of Analysis Summary 639515

Tetra Tech- Midland, Midland, TX

**Project Name: Roy Batty** 

Date Received in Lab:Wed Oct-09-19 03:46 pmReport Date:14-OCT-19Project Manager:Jessica Kramer

	Lab Id:	639515-0	001	639515-(	002	639515-0	03	639515-0	04	639515-0	005	639515-0	)06
Analysis Requested	Field Id:	AH #1 (0	-1')	AH #1 (1-	1.5')	AH #1 (2-2	2.5')	AH #1 (3-3	3.5')	AH #1 (3.	5-4')	AH #2 (0	-1')
mulysis Requested	Depth:	0-1 ft		1-1.5 f	t	2-2.5 ft	t	3-3.5 ft	t	3.5-4 f	ť	0-1 ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-09-19	00:00	Oct-09-19	00:00	Oct-09-19 0	00:00	Oct-09-19 (	00:00	Oct-09-19	00:00	Oct-09-19 (	00:00
BTEX by EPA 8021B	Extracted:	Oct-11-19	10:40	Oct-11-19	10:40							Oct-11-19	10:40
SUB: T104704219-19-21	Analyzed:	Oct-12-19	06:27	Oct-12-19 (	06:51							Oct-12-19 (	07:15
	Units/RL:	mg/kg	RL	mg/kg	RL							mg/kg	RL
Benzene		< 0.0400	0.0400	< 0.0400	0.0400							< 0.0400	0.0400
Toluene		< 0.0400	0.0400	< 0.0400	0.0400							< 0.0400	0.0400
Ethylbenzene		< 0.0400	0.0400	< 0.0400	0.0400							< 0.0400	0.0400
m,p-Xylenes		< 0.0800	0.0800	< 0.0800	0.0800							< 0.0800	0.0800
o-Xylene		< 0.0400	0.0400	< 0.0400	0.0400							< 0.0400	0.0400
Total Xylenes		< 0.0400	0.0400	< 0.0400	0.0400							< 0.0400	0.0400
Total BTEX		< 0.0400	0.0400	< 0.0400	0.0400							< 0.0400	0.0400
Inorganic Anions by EPA 300/300.1	Extracted:	Oct-11-19	17:30	Oct-11-19 17:30		Oct-11-19 17:30		Oct-11-19 17:30		Oct-11-19 17:30		Oct-11-19 17:	
SUB: T104704400-19-19	Analyzed:	Oct-11-19	19:24	Oct-11-19	19:40	Oct-11-19 1	9:45	Oct-11-19 1	9:50	Oct-11-19 19:56		Oct-11-19 20:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		18.7	5.00	33.8	4.98	90.5	4.99	1440	4.96	5390	50.0	19.3	4.95
TPH By SW8015 Mod	Extracted:	Oct-11-19	11:00	Oct-11-19	11:00							Oct-11-19	11:00
SUB: T104704400-19-19	Analyzed:	Oct-11-19	18:52	Oct-11-19	19:13							Oct-11-19	19:34
	Units/RL:	mg/kg	RL	mg/kg	RL							mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9							<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<49.9	49.9							<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9							<50.0	50.0
Total TPH		<49.9	49.9	<49.9	49.9							<50.0	50.0

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.

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fession kramer

Jessica Kramer Project Assistant

Final 1.000





Certificate of Analysis Summary 639515

Tetra Tech- Midland, Midland, TX Project Name: Roy Batty

Date Received in Lab:Wed Oct-09-19 03:46 pmReport Date:14-OCT-19Project Manager:Jessica Kramer

									4.0				
	Lab Id:	639515-0	007	639515-0	008	639515-0	09	639515-0	010	639515-0	011	639515-0	012
Analysis Requested	Field Id:	AH #2 (1-	1.5')	AH #2 (2-2	2.5')	AH #2 (3-3	3.5')	AH #2 (4-	4.5')	AH #2 (5-	5.5')	AH #2 (6-0	6.5')
mulysis Requested	Depth:	1-1.5 f	ť	2-2.5 f	t	3-3.5 ft	t	4-4.5 f	t	5-5.5 f	t	6-6.5 ft	t
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-09-19 (	00:00	Oct-09-19 (	00:00	Oct-09-19 0	00:00	Oct-09-19 (	00:00	Oct-09-19 (	00:00	Oct-09-19 (	00:00
BTEX by EPA 8021B	Extracted:	Oct-11-19	10:40										
SUB: T104704219-19-21	Analyzed:	Oct-12-19	07:38										
	Units/RL:	mg/kg	RL										
Benzene		< 0.0400	0.0400										
Toluene		< 0.0400	0.0400										
Ethylbenzene		< 0.0400	0.0400										
m,p-Xylenes		< 0.0800	0.0800										
o-Xylene		< 0.0400	0.0400										
Total Xylenes		< 0.0400	0.0400										
Total BTEX		< 0.0400	0.0400										
Inorganic Anions by EPA 300/300.1	Extracted:	Oct-11-19	17:30	Oct-11-19 17:30									
SUB: T104704400-19-19	Analyzed:	Oct-11-192	20:17	Oct-11-19 2	20:22	Oct-11-19 20:27		Oct-11-19 20:33		Oct-11-19 20:38		Oct-11-19 20:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		17.2	5.02	56.5	4.96	1420	5.00	319	4.97	635	5.04	1570	25.0
TPH By SW8015 Mod	Extracted:	Oct-11-19	11:00										
SUB: T104704400-19-19	Analyzed:	Oct-11-19	19:55										
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9										
Diesel Range Organics (DRO)		<49.9	49.9										
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9										
Total TPH		<49.9	49.9										

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fession kramer

Jessica Kramer Project Assistant

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Certificate of Analysis Summary 639515

Tetra Tech- Midland, Midland, TX Project Name: Roy Batty

Date Received in Lab:Wed Oct-09-19 03:46 pmReport Date:14-OCT-19Project Manager:Jessica Kramer

	Lab Id:	639515-0	013	639515-0	014	639515-0	015	639515-0	016	639515-0	017	639515-0	018
Analysis Requested	Field Id:	AH #2 (7-	7.5')	AH #3 (0	-1')	AH #4 (0	-1')	AH #5 (0	)-1')	AH #6 (0	-1')	AH #6 (1-	1.5')
Analysis Kequestea	Depth:	7-7.5 f	t	0-1 ft		0-1 ft		0-1 ft		0-1 ft		1-1.5 ft	t
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-09-19 (	00:00	Oct-09-19 (	00:00	Oct-09-19 (	00:00	Oct-09-19	00:00	Oct-09-19 (	00:00	Oct-09-19 (	00:00
BTEX by EPA 8021B	Extracted:		1	Oct-11-19 1	0:40	Oct-11-19 1	10:40	Oct-11-19	10:40	Oct-11-19	10:40		
SUB: T104704219-19-21	Analyzed:			Oct-12-19 (	08:02	Oct-12-19 (	08:25	Oct-12-19	08:50	Oct-12-19 (	09:13		
	Units/RL:			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene				< 0.0400	0.0400	< 0.0400	0.0400	< 0.0200	0.0200	< 0.0200	0.0200		
Toluene				< 0.0400	0.0400	< 0.0400	0.0400	< 0.0200	0.0200	< 0.0200	0.0200		
Ethylbenzene				< 0.0400	0.0400	< 0.0400	0.0400	< 0.0200	0.0200	< 0.0200	0.0200		
m,p-Xylenes				< 0.0800	0.0800	< 0.0800	0.0800	< 0.0400	0.0400	< 0.0400	0.0400		
o-Xylene				< 0.0400	0.0400	< 0.0400	0.0400	< 0.0200	0.0200	< 0.0200	0.0200		
Total Xylenes				< 0.0400	0.0400	< 0.0400	0.0400	< 0.0200	0.0200	< 0.0200	0.0200		
Total BTEX				< 0.0400	0.0400	< 0.0400	0.0400	< 0.0200	0.0200	< 0.0200	0.0200		
Inorganic Anions by EPA 300/300.1	Extracted:	Oct-11-19 17:30		Oct-11-19 17:30		Oct-11-19 17:30		Oct-11-19 17:30		Oct-11-19 17:30		Oct-11-19 17:30	
SUB: T104704400-19-19	Analyzed:	Oct-11-192	20:59	Oct-11-19 2	21:15	Oct-11-19 21:20		Oct-11-19 21:25		Oct-11-192	21:31	Oct-11-19 21:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		184	4.98	13.3	5.02	23.2	5.00	80.9	5.00	146	5.00	1850	25.2
TPH By SW8015 Mod	Extracted:			Oct-11-19 1	1:00	Oct-11-19 1	1:00	Oct-13-19	12:00	Oct-13-19	2:00		
SUB: T104704400-19-19	Analyzed:			Oct-11-19 2	20:16	Oct-11-19 2	20:37	Oct-14-19	03:20	Oct-14-19 (	03:41		
	Units/RL:			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)	1			<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0		
Diesel Range Organics (DRO)				<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)				<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0		
Total TPH				<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0		

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fession kenner

Jessica Kramer Project Assistant

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Certificate of Analysis Summary 639515

Tetra Tech- Midland, Midland, TX Project Name: Roy Batty

Date Received in Lab:Wed Oct-09-19 03:46 pmReport Date:14-OCT-19Project Manager:Jessica Kramer

	Lab Id:	639515-0	)19	639515-0	20	639515-0	21		
	Field Id:	AH #7 (0	-1')	AH #8 (0	-1')	AH #8 (1-1	.5')		
Analysis Requested	Depth:	0-1 ft		0-1 ft		1-1.5 ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Oct-09-19 (	00:00	Oct-09-19 (	00:00	Oct-09-19 0	0:00		
BTEX by EPA 8021B	Extracted:	Oct-11-19	10:40	Oct-11-19 1	0:40				
SUB: T104704219-19-21	Analyzed:	Oct-12-19 (	09:37	Oct-12-19 1	0:01				
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		< 0.0400	0.0400	< 0.0400	0.0400				
Toluene		< 0.0400	0.0400	< 0.0400	0.0400				
Ethylbenzene		< 0.0400	0.0400	< 0.0400	0.0400				
- Xylenes		< 0.0800	0.0800	< 0.0800	0.0800				
o-Xylene		< 0.0400	0.0400	< 0.0400	0.0400				
Total Xylenes		< 0.0400	0.0400	< 0.0400	0.0400				
Total BTEX		< 0.0400	0.0400	< 0.0400	0.0400				
Inorganic Anions by EPA 300/300.1	Extracted:	Oct-11-19	17:30	Oct-11-19 16:30		Oct-11-19 16:30			
SUB: T104704400-19-19	Analyzed:	Oct-11-192	21:47	Oct-11-19 2	20:07	Oct-11-19 2	0:13		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		16.1	4.96	7.78	5.03	20.8	4.96		
TPH By SW8015 Mod	Extracted:	Oct-13-19	12:00	Oct-13-19 1	2:00				
SUB: T104704400-19-19	Analyzed:	Oct-14-19 (	04:02	Oct-14-19 (	04:23				
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8				
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8				
Total TPH		<50.0	50.0	<49.8	49.8				

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Jessica Kramer Project Assistant

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## **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 Cli	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	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: Roy Batty** 

Work Ord Lab Batch #:	ers: 639515 3104204	5, Sample: 639515-001 / SMP	Batch	Project ID 1: 1 Matrix					
Units:	mg/kg	Date Analyzed: 10/11/19 18:52	SU	RROGATE R	ECOVERY S	STUDY			
	TPH F	3y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1-Chlorooctan	e		92.8	99.8	93	70-135			
o-Terphenyl			50.5	49.9	101	70-135			
Lab Batch #:	3104204	Sample: 639515-002 / SMP	Batch	n: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 10/11/19 19:13	SU	RROGATE R	ECOVERY S	STUDY			
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctan			91.1	99.7	91	70-135			
o-Terphenyl			50.2	49.9	101	70-135			
Lab Batch #:	3104204	Sample: 639515-006 / SMP	Batch			70-155			
Units:	mg/kg	Date Analyzed: 10/11/19 19:34	SURROGATE RECOVERY STUDY						
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes	[-]	[-]	[D]	,			
1-Chlorooctan	e		92.2	99.9	92	70-135			
o-Terphenyl			49.9	50.0	100	70-135			
Lab Batch #:	3104204	Sample: 639515-007 / SMP	Batch	n: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 10/11/19 19:55	SU	RROGATE R	ECOVERY S	STUDY			
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctan		Analytes	00.7	00.7		70-135			
o-Terphenyl			90.7 49.9	99.7 49.9	91	70-135			
Lab Batch #:	3104204	Sample: 639515-014 / SMP	Batch			70-133			
Units:	mg/kg	Date Analyzed: 10/11/19 20:16		RROGATE R		STUDY			
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1-Chlorooctan	e		98.9	99.6	99	70-135			
o-Terphenyl			52.0	49.8	104	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: Roy Batty** 

	r <b>ders :</b> 639515 #: 3104204	5, Sample: 639515-015 / SMP	Project ID: Batch: 1 Matrix: Soil								
Units:	mg/kg	Date Analyzed: 10/11/19 20:37	SUF	ROGATE R	ECOVERY S	STUDY					
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
		Analytes			[D]						
1-Chlorooc	tane		95.5	99.9	96	70-135					
o-Terpheny			50.9	50.0	102	70-135					
Lab Batch	#: 3104132	Sample: 639515-001 / SMP	Batch	: 1 Matrix	: Soil						
Units:	mg/kg	Date Analyzed: 10/12/19 06:27	SUF	ROGATE R	ECOVERY S	STUDY					
		X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
		Analytes									
	orobenzene		0.0877	0.100	88	68-120					
a,a,a-Triflu			3.77	4.00	94	71-121					
	#: 3104132	Sample: 639515-002 / SMP	Batch	: 1 Matrix	: Soil						
Units:	nits: mg/kg Date Analyzed: 10/12/19 06:51 SURROGATE RECOVERY STUD										
	BTEX	( by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
		Analytes			[D]						
4-Bromoflu	orobenzene		0.0832	0.100	83	68-120					
a,a,a-Triflu	orotoluene		3.61	4.00	90	71-121					
Lab Batch	<b>#:</b> 3104132	Sample: 639515-006 / SMP	Batch	: 1 Matrix	: Soil						
Units:	mg/kg	Date Analyzed: 10/12/19 07:15	SUF	RROGATE R	ECOVERY S	STUDY					
		A by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
4-Bromoflu	orobenzene		0.0787	0.100	79	68-120					
a,a,a-Triflu			3.54	4.00	89	71-121					
	#: 3104132	Sample: 639515-007 / SMP	Batch								
Units:	mg/kg	Date Analyzed: 10/12/19 07:38	SUF	ROGATE R	ECOVERY S	STUDY					
BTEX by EPA 8021B			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
		Analytes			[D]						
4-Bromoflu	orobenzene		0.0762	0.100	76	68-120					
a,a,a-Triflu	orotoluene		3.33	4.00	83	71-121					

\* 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



ORATORIES



**Project Name: Roy Batty** 

	<b>ders :</b> 639515 #: 3104132	5, Sample: 639515-014 / SMP	Project ID: Batch: 1 Matrix: Soil									
Units:	mg/kg	<b>Date Analyzed:</b> 10/12/19 08:02	SURROGATE RECOVERY STUDY									
	BTEX	t by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
		Analytes			[D]							
4-Bromoflu	orobenzene		0.0755	0.100	76	68-120						
a,a,a-Trifluo			3.48	4.00	87	71-121						
Lab Batch	#: 3104132	Sample: 639515-015 / SMP	P Batch: 1 Matrix: Soil									
Units:	mg/kg	Date Analyzed: 10/12/19 08:25	SU	JRROGATE R	ECOVERY S	STUDY						
		by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
4-Bromoflu			0.0905	0.100	91	68-120						
a,a,a-Trifluo	orotoluene		3.78	4.00	95	71-121						
Lab Batch	#: 3104132	Sample: 639515-016 / SMP	Bate	h: 1 Matrix	: Soil							
Units:	mg/kg	Date Analyzed: 10/12/19 08:50	SURROGATE RECOVERY STUDY									
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
		Analytes			[D]							
4-Bromoflu	orobenzene		0.0715	0.100	72	68-120						
a,a,a-Trifluc			1.67	2.00	84	71-121						
Lab Batch	#: 3104132	Sample: 639515-017 / SMP	Bate	h: 1 Matrix	: Soil							
Units:	mg/kg	Date Analyzed: 10/12/19 09:13	SU	JRROGATE R	ECOVERY S	STUDY						
		L by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
4-Bromoflu	orobenzene	-	0.0821	0.100	82	68-120						
a,a,a-Trifluc	orotoluene		1.88	2.00	94	71-121						
Lab Batch	#: 3104132	Sample: 639515-019 / SMP	Bate	h: 1 Matrix	: Soil	1						
Units:	mg/kg	Date Analyzed: 10/12/19 09:37	SU	JRROGATE R	ECOVERY S	STUDY						
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag					
		Analytes			[D]							
4-Bromoflu	orobenzene		0.0886	0.100	89	68-120						
a,a,a-Trifluc	orotoluene		3.89	4.00	97	71-121						

\* 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: Roy Batty** 

Work Ord Lab Batch #:	<b>ers :</b> 63951. 3104132	5, Sample: 639515-020 / SMP	Batch	Project ID			
Units:	mg/kg	Date Analyzed: 10/12/19 10:01	SUF	RROGATE R	RECOVERY	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromofluor	obenzene		0.0754	0.100	75	68-120	
a,a,a-Trifluoro	toluene		3.33	4.00	83	71-121	
Lab Batch #:	3104226	Sample: 639515-016 / SMP	Batch	1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 10/14/19 03:20	SUF	ROGATE R	RECOVERY	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chlorooctan	e		72.4	99.9	72	70-135	
o-Terphenyl			35.4	50.0	71	70-135	
Lab Batch #:		Sample: 639515-017 / SMP	Batch	1 Matrix	<b>::</b> Soil		
Units:	mg/kg	Date Analyzed: 10/14/19 03:41	SUF	RROGATE R	RECOVERY	STUDY	
	TPH I	3y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	[11]	[10]	[D]	/01	
1-Chlorooctan	e		70.6	100	71	70-135	
o-Terphenyl			35.4	50.0	71	70-135	
Lab Batch #:	3104226	Sample: 639515-019 / SMP	Batch	1 Matrix	x: Soil		
Units:	mg/kg	Date Analyzed: 10/14/19 04:02	SUF	RROGATE R	RECOVERY	STUDY	
	TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctan	0	Anarytes	71.2	00.0		70.125	
o-Terphenyl			71.3	99.9 50.0	71	70-135	
Lab Batch #:	3104226	Sample: 639515-020 / SMP	35.9 Batch:			/0-133	
Lab Daten #. Units:	mg/kg	<b>Date Analyzed:</b> 10/14/19 04:23					
ошь <b>.</b>	ш5/к5	Datt Analyzeu, 10/14/17/04.23	SUF	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.011		Analytes					
1-Chlorooctan	e		70.8	99.6	71	70-135	
o-Terphenyl			35.6	49.8	71	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: Roy Batty** 

	rders : 639515 #: 3104204	5, <b>Sample:</b> 7687940-1-BLK /	BLK Batch	Project ID n: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 10/11/19 12:16	SU	RROGATE R	ECOVERY	STUDY	
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc			108	100	108	70-135	
o-Terpheny			59.0	50.0	118	70-135	
Lab Batch	#: 3104132	Sample: 7687946-1-BLK / 1	BLK Batch	n: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 10/12/19 01:17	SU	RROGATE R	ECOVERY	STUDY	
		X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4 Due ve e flee	orobenzene	Analytes	0.0007	0.100		60.100	
			0.0827	0.100	83	68-120	
a,a,a-Triflu		9	1.81	2.00	91	71-121	
	#: 3104226	Sample: 7688030-1-BLK /			-		
Units:	mg/kg	Date Analyzed: 10/13/19 21:46	SU	RROGATE R	ECOVERY	STUDY	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		72.5	100	73	70-135	
o-Terpheny	rl		40.9	50.0	82	70-135	
Lab Batch	#: 3104204	Sample: 7687940-1-BKS /	BKS Batch	n: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 10/11/19 12:37	SU	RROGATE R	ECOVERY	STUDY	
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc			124	100	124	70-135	
o-Terpheny			55.9	50.0	1124	70-135	
	#: 3104132	Sample: 7687946-1-BKS /			: Solid	,0155	
Units:	mg/kg	Date Analyzed: 10/11/19 23:40		RROGATE R		STUDY	
		X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
	iorobenzene		0.0776	0.100	78	68-120	
a,a,a-Triflu	orotoluene		1.68	2.00	84	71-121	

\* 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: Roy Batty** 

Work Ord Lab Batch #	lers: 63951: : 3104226	5, <b>Sample:</b> 7688030-1-BKS / 1	BKS Bate	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 10/13/19 22:07	SU	RROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ne		80.8	100	81	70-135	
o-Terphenyl			39.3	50.0	79	70-135	
Lab Batch #	<b>:</b> 3104204	Sample: 7687940-1-BSD / ]	BSD Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 10/11/19 12:57	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-Chloroocta		Analytes	112	100		70.125	
	le		113	100	113	70-135	
o-Terphenyl Lab Batch #	. 210/122	Sample: 7687946-1-BSD / 1	48.6	50.0 h: 1 Matrix	97	70-135	
		-					
Units:	mg/kg	Date Analyzed: 10/12/19 00:04	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	[13]	[0]	[D]	/011	
4-Bromofluor	obenzene		0.0793	0.100	79	68-120	
a,a,a-Trifluor	otoluene		1.68	2.00	84	71-121	
Lab Batch #	: 3104226	Sample: 7688030-1-BSD / 1	BSD Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 10/13/19 22:27	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-Chloroocta	ne		90.3	100	90	70-135	
o-Terphenyl			45.5	50.0	91	70-135	
Lab Batch #	: 3104204	Sample: 639399-001 S / MS					
Units:	mg/kg	<b>Date Analyzed:</b> 10/11/19 13:39		RROGATE R		STUDY	
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ne		106	99.9	106	70-135	
o-Terphenyl			44.2	50.0	88	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: Roy Batty** 

	<b>ders :</b> 63951: #: 3104132	5, Sample: 639685-001 S / MS	Batch	Project ID : 1 Matrix			
Units:	mg/kg	Date Analyzed: 10/12/19 02:04	SUI	RROGATE R	RECOVERY	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromoflu	orobenzene		0.0788	0.100	79	68-120	
a,a,a-Trifluo	orotoluene		1.83	2.00	92	71-121	
Lab Batch	#: 3104226	Sample: 639592-001 S / MS	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 10/13/19 23:09	SUI	RROGATE R	RECOVERY	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 (11)		Analytes					
1-Chlorooct			92.6	99.9	93	70-135	
o-Terpheny			44.1	50.0	88	70-135	
	#: 3104204	Sample: 639399-001 SD / M	SD Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 10/11/19 14:00	SUI	RROGATE R	RECOVERY	STUDY	
	TPH I	3y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	ane		121	99.8	121	70-135	
o-Terpheny	l		51.5	49.9	103	70-135	
Lab Batch	#: 3104132	Sample: 639685-001 SD / M	SD Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 10/12/19 02:29	SUI	RROGATE R	RECOVERY	STUDY	
	ВТЕХ	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene	•	0.0950	0.100	95	68-120	
a,a,a-Trifluc	orotoluene		2.06	2.00	103	71-121	
	#: 3104226	Sample: 639592-001 SD / M					
Units:	mg/kg	<b>Date Analyzed:</b> 10/13/19 23:30	SUI	RROGATE R	RECOVERY	STUDY	
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
r		Analytes			[D]		
1-Chlorooct	ane		76.4	99.6	77	70-135	
o-Terpheny	l		35.8	49.8	72	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: Roy Batty**

Work Order #: 639515								Pro	ject ID:			
Analyst: MIT		D	ate Prepai	red: 10/11/202	19			Date A	nalyzed:	10/11/2019		
Lab Batch ID: 3104132	Sample: 7687946-1	-BKS	Bate	<b>h #:</b> 1					Matrix: S	Solid		
Units: mg/kg			BLAN	K /BLANK	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	ЭY	
	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		< 0.0200	2.00	1.76	88	2.00	1.74	87	1	55-120	20	
Toluene		< 0.0200	2.00	1.78	89	2.00	1.71	86	4	77-120	20	
Ethylbenzene		< 0.0200	2.00	1.89	95	2.00	1.83	92	3	77-120	20	
m,p-Xylenes		< 0.0400	4.00	3.68	92	4.00	3.57	89	3	78-120	20	
o-Xylene		< 0.0200	2.00	1.86	93	2.00	1.81	91	3	78-120	20	
Analyst: CHE		D	ate Prepai	red: 10/11/202	19	•		Date A	nalyzed:	10/11/2019	•	
Lab Batch ID: 3104138	Sample: 7687992-1	-BKS	Batc	<b>h #:</b> 1					Matrix: 3	Solid		
Units: mg/kg			BLAN	K /BLANK	SPIKE / 2	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	ЭY	
Inorganic Anion Analytes	s by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		<0.858	250	247	99	250	247	99	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: Roy Batty**

Work Order #: 639515							Pro	ject ID:			
Analyst: CHE	D	ate Prepar	ed: 10/11/20	19			Date A	nalyzed:	10/11/2019		
Lab Batch ID: 3104147 Sample: 7687993-1	-BKS	Batcl	<b>h #:</b> 1					Matrix:	Solid		
Units: mg/kg		BLAN	K /BLANK	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
Inorganic Anions by EPA 300/300.1 Analytes	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	247	99	250	246	98	0	90-110	20	
Analyst: ARM	D	ate Prepar	ed: 10/11/20	19	1	1	Date A	nalyzed:	10/11/2019	1	1
Lab Batch ID: 3104204 Sample: 7687940-1	-BKS	Batcl	<b>n #:</b> 1					Matrix:	Solid		
Units: mg/kg		BLAN	K /BLANK	SPIKE /	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
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 Range Hydrocarbons (GRO)	<15.0	1000	1190	119	1000	1180	118	1	70-135	20	
Diesel Range Organics (DRO)	<50.0	1000	1150	115	1000	1200	120	4	70-135	20	
Analyst: ARM	D	ate Prepar	ed: 10/13/20	19			Date A	nalyzed:	10/13/2019		
Lab Batch ID: 3104226 Sample: 7688030-1	-BKS	Batcl	<b>n #:</b> 1					Matrix:	Solid		
Units: mg/kg		BLAN	K /BLANK	SPIKE / 2	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
TPH By SW8015 Mod Analytes	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
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	899	90	1000	983	98	9	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	937	94	1000	889	89	5	70-135	20	

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



## Form 3 - MS / MSD Recoveries

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Work Order # :	639515						Project II	<b>)</b> :				
Lab Batch ID:	3104132	QC- Sample ID:	639685-	-001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	10/12/2019	Date Prepared:	10/11/20	019	An	alyst: 1	MIT					
<b>Reporting Units:</b>	mg/kg		М	ATRIX 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>B</b> ]		[D]	[E]		[G]				
Benzene		< 0.0200	2.00	1.79	90	2.00	1.76	88	2	54-120	25	
Toluene		0.00600	2.00	1.78	89	2.00	1.79	89	1	57-120	25	
Ethylbenzene		<0.0200	2.00	1.78	89	2.00	1.91	96	7	58-131	25	
m,p-Xylenes		< 0.0400	4.00	3.49	87	4.00	3.72	93	6	62-124	25	
o-Xylene		< 0.0200	2.00	1.70	85	2.00	1.80	90	6	62-124	25	
Lab Batch ID:	3104138	QC- Sample ID:	639650-	-003 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	10/11/2019	Date Prepared:	10/11/20	019	An	alyst: (	CHE					
<b>Reporting Units:</b>	mg/kg		М	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
_		Parent					1 1					
Inorgai	nic Anions by EPA 300/300.1	Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Inorga	nic Anions by EPA 300/300.1 Analytes		Spike Added [B]			Spike Added [E]		-	RPD %			Flag
Chloride	·	Sample Result	Added	Result	Sample %R	Added	Spiked Sample	Dup. %R		Limits	Limits	Flag
Chloride	·	Sample Result [A]	Added [B] 248	Result [C] 567	<b>Sample</b> % <b>R</b> [ <b>D</b> ] 94	Added [E]	Spiked Sample Result [F]	Dup. %R [G] 94	%	Limits %R	Limits %RPD	Flag
	Analytes	Sample Result [A] 335	Added [B] 248 639662-	Result [C] 567 -001 S	Sample %R [D] 94 Ba	Added [E] 248	Spiked Sample Result [F] 567 1 Matrix	Dup. %R [G] 94	%	Limits %R	Limits %RPD	Flag
Chloride Lab Batch ID: Date Analyzed:	Analytes 3104138	Sample Result [A] 335 QC- Sample ID:	Added [B] 248 639662- 10/11/20	Result [C] 567 -001 S 019	Sample %R [D] 94 Ba An	Added [E] 248 tch #: nalyst: (	Spiked Sample Result [F] 567 1 Matrix	Dup. %R [G] 94 x: Soil	<b>%</b> 0	Limits %R 90-110	Limits %RPD	Flag
Chloride Lab Batch ID: Date Analyzed: Reporting Units:	Analytes 3104138 10/11/2019	Sample Result [A] 335 QC- Sample ID: Date Prepared: Parent Sample	Added [B] 248 639662- 10/11/20 M Spike	Result [C] 567 001 S 019 ATRIX SPIK Spiked Sample Result	Sample %R [D] 94 Ba An E / MAT Spiked Sample	Added [E] 248 tch #: nalyst: ( RIX SPI Spike	Spiked Sample Result [F] 567 1 Matrix CHE KE DUPLICA Duplicate Spiked Sample	Dup. %R [G] 94 x: Soil TE REC Spiked Dup.	% 0 OVERY RPD	Limits %R 90-110 STUDY Control Limits	Limits %RPD 20 Control Limits	Flag
Chloride Lab Batch ID: Date Analyzed: Reporting Units:	Analytes 3104138 10/11/2019 mg/kg	Sample Result [A] 335 QC- Sample ID: Date Prepared: Parent	Added [B] 248 639662- 10/11/20 M	Result         [C]           567         -           -001 S         -           019         -           ATRIX SPIK         -           Spiked Sample         -	Sample %R [D] 94 Ba An E / MAT Spiked	Added [E] 248 tch #: nalyst: ( RIX SPI	Spiked Sample Result [F] 567 1 Matrix CHE KE DUPLICA Duplicate	Dup. %R [G] 94 x: Soil TE REC Spiked	% 0 OVERY	Limits %R 90-110 STUDY Control	Limits %RPD 20 Control	

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.

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## Form 3 - MS / MSD Recoveries

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#### **Project Name: Roy Batty**

Work Order # :	639515						Project II	<b>)</b> :				
Lab Batch ID:	3104147	QC- Sample ID:	639515	-001 S	Ba	tch #:	1 Matrix	<b>x:</b> Soil				
Date Analyzed:	10/11/2019	Date Prepared:	10/11/2	019	An	alyst: (	CHE					
<b>Reporting Units:</b>	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorga	nic Anions by EPA 300/300.1	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	/on D	
Chloride		18.7	250	270	101	250	274	102	1	90-110	20	
Lab Batch ID:	3104147	QC- Sample ID:	639515	-011 S	Ba	tch #:	1 Matrix	<b>k:</b> Soil				
Date Analyzed:	10/11/2019	Date Prepared:	10/11/2	019	An	alyst: (	CHE					
<b>Reporting Units:</b>	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorga	nic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result	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]	<sup>76</sup> K [D]	E]	Kesun [r]	56K [G]	70	70K	70KPD	
Chloride		635	252	859	89	252	857	88	0	90-110	20	Х
Lab Batch ID:	3104204	QC- Sample ID:	639399	-001 S	Ba	tch #:	1 Matrix	<b>x:</b> Soil	•	·	•	
Date Analyzed:	10/11/2019	Date Prepared:	10/11/2	019	An	alyst: A	ARM					
<b>Reporting Units:</b>	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	TPH By SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Range	Hydrocarbons (GRO)	<15.0	999	1190	119	998	1180	118	1	70-135	20	
Diesel Range O	brganics (DRO)	28.8	999	1160	113	998	1140	111	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

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



## Form 3 - MS / MSD Recoveries

#### **Project Name: Roy Batty**

Work Order # :	639515						Project II	D:				
Lab Batch ID:	3104226 Q	C- Sample ID:	639592	-001 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	10/13/2019	Date Prepared:	10/13/2	019	An	alyst: A	ARM					
<b>Reporting Units:</b>	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
T	TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Range I	Hydrocarbons (GRO)	16.9	999	1010	99	996	853	84	17	70-135	20	
Diesel Range Or	ganics (DRO)	<15.0	999	1000	100	996	878	88	13	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

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.

and Custody Record       Normal Service State Service State Service State Service State Service	P, Furce.       any water team anyoe in (except search in the rest anyoe in the search in the search in the search i	P, Furce.       any water team anyoe in (except search in the rest anyoe in the search in the search in the search i	Processor     Subscription       Image: Standing of the function of the second o		CD: 3/7/ elinquished by:	24 elinquished by:	8:29 Brine	542 Alinquished by:										( LAB USE )	LAB #		Comments:	necelving Laboratory.	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	Pag	alysis Rec	
Circle HAND DELIVERED     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X <th< th=""><th>Circle HAND DELIVERED     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     <th< th=""><th>Circle HAND DELIVERED     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     <th< th=""><th>ANALYSIS REQUEST (Circle or Specify Method No.) (Circle or S</th><th></th><th>Date:</th><th>Date:</th><th>+151 6116/01 Dupolur</th><th>AH #2 (4-4.5') Date:</th><th>AH #2 (3-3.5')</th><th>AH #2 (2-2.5')</th><th>AH #2 (1-1.5')</th><th>AH #2 (0-1')</th><th>AH #1 (3.5-4')</th><th>AH #1 (3-3.5')</th><th>AH #1 (2-2.5')</th><th>AH #1 (1-1.5')</th><th>AH #1 (0-1')</th><th></th><th>SAMPLE IDENTIFICATION</th><th></th><th>Run deeper sample if GRO + DRO exceeds 1000 mg/Kg. Ru exceeds 50 mg/Kg.</th><th>Xenco</th><th>COG -</th><th></th><th>Roy Batty</th><th>COG</th><th>l,</th><th>quest of Chain of Custody Record</th></th<></th></th<></th></th<>	Circle HAND DELIVERED     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X <th< th=""><th>Circle HAND DELIVERED     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     <th< th=""><th>ANALYSIS REQUEST (Circle or Specify Method No.) (Circle or S</th><th></th><th>Date:</th><th>Date:</th><th>+151 6116/01 Dupolur</th><th>AH #2 (4-4.5') Date:</th><th>AH #2 (3-3.5')</th><th>AH #2 (2-2.5')</th><th>AH #2 (1-1.5')</th><th>AH #2 (0-1')</th><th>AH #1 (3.5-4')</th><th>AH #1 (3-3.5')</th><th>AH #1 (2-2.5')</th><th>AH #1 (1-1.5')</th><th>AH #1 (0-1')</th><th></th><th>SAMPLE IDENTIFICATION</th><th></th><th>Run deeper sample if GRO + DRO exceeds 1000 mg/Kg. Ru exceeds 50 mg/Kg.</th><th>Xenco</th><th>COG -</th><th></th><th>Roy Batty</th><th>COG</th><th>l,</th><th>quest of Chain of Custody Record</th></th<></th></th<>	Circle HAND DELIVERED     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X <th< th=""><th>ANALYSIS REQUEST (Circle or Specify Method No.) (Circle or S</th><th></th><th>Date:</th><th>Date:</th><th>+151 6116/01 Dupolur</th><th>AH #2 (4-4.5') Date:</th><th>AH #2 (3-3.5')</th><th>AH #2 (2-2.5')</th><th>AH #2 (1-1.5')</th><th>AH #2 (0-1')</th><th>AH #1 (3.5-4')</th><th>AH #1 (3-3.5')</th><th>AH #1 (2-2.5')</th><th>AH #1 (1-1.5')</th><th>AH #1 (0-1')</th><th></th><th>SAMPLE IDENTIFICATION</th><th></th><th>Run deeper sample if GRO + DRO exceeds 1000 mg/Kg. 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Circle HAND DELIVERED     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X <th< td=""><td>Circle HAND DELIVERED     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X 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    X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     <th< td=""><td>ANALYSIS REQUEST (Circle or Specify Method No.) (Circle or S</td><td>ORIGINAL COPY</td><td>Received by:</td><td>Heceived by:</td><td>COLL</td><td>Received by:</td><td>10/9/2019</td><td>10/9/2019</td><td>10/9/2019</td><td>10/9/2019</td><td>10/9/2019</td><td>10/9/2019</td><td>10/9/2019</td><td>10/9/2019</td><td>10/9/2019</td><td></td><td>-</td><td>SAMPLING</td><td>in deeper samples if b</td><td></td><td>Sampler Signature:</td><td>Project #:</td><td></td><td>Site 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	Date: Time:	Vare: Ime:	r marly 10/2/19	: Date: Time:	AH #8 (0-1')	AH #7 (0-1')	AH #6 (0-1) AH #6 (1-1 5')	AH #5 (0-1')	AH #4 (0-1')	AH #3 (0-1')	AH #2 (7-7.5')	AH #2 (6-6.5')	AH #2 (5-5.5')		SAMPLE IDENTIFICATION		Run deeper sample if GRO + DRO exceeds 1000 mg/Kg. Run deeper samples if benzene exceeds 10 mg exceeds 50 mg/Kg.	atory: Xenco	COG - Ike Taverez	" Lea Co, NM	Roy Batty	COG	Tetra Tech, Inc.
	Received by:	Hacewed by:	NOU	Received by:	10/9/2019	10/9/2019	10/9/2019	10/9/2019	10/9/2019	10/9/2019	10/9/2019	10/9/2019	10/9/2019	DATE	YEAR: 2019	SAMPLING	lun deeper samples if	Sampler Signature:		Project #:		Site Manager:	
	Date:	Date:	bloi MM	Date:	×	× >	< ×	×	×	×	×	×	×	WATEI SOIL HCL HNO3	R	MATRIX PRE	benzene exceeds 10	Conner Moehring		Pending		Mike Carmona	901W Wall Street, Ste 100 Midland Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
	Time:	lime:	19 19:44	me:					X 1 N	X 1 N	X 1 N	X 1 N	X 1 N	ICE None # CONT			) mg/Kg or total BTEX	ehring				1	et, Ste 100 s 79705 2-4559 2-3946
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	Rush Cha Special Re	X HUSH: S	÷.	REMARKS:										TCLP Vo TCLP Se RCI GC/MS V GC/MS S	emi Va Vol. 8	latiles 260B /	/ 624	5				ANALYSIS	
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	RP Report	48 hr /2 hr												General Anion/Ca	Wate	r Chei	mistry (s	ee atta	ched li	st)			
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	y: Date: Time:	y: Date: Time:	in morary 10/9/19				AH #8 (1-1.5')		SAMPLE IDENTIFICATION		Run deeper sample if GRO + DRO exceeds 1000 mg/Kg. Run deeper samples if benzene exceeds 10 mg/Kg exceeds 50 mg/Kg.	atory: Xenco	COG - Ike Taverez	" Lea Co, NM	Roy Batty	COG	Tetra Tech, Inc.
	Received by:	Hecewed by:	Received by:				10/9/2019	DATE TIME	YEAR: 2019	SAMPLING	In deeper samples if t	Sampler Signature:		Project #:		Site Manager:	
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(Circle) HAND DELIVERED	4.4	Sample Temperature	いう:イレ LAB USE				1 N	PAH 8 Total M	RED (1 8021B X1005 015M ( 270C etals A	r/N) BTI (Ext to ( GRO	- DRO - Ba Cd Cr	ORO - Pb Se	Hg			(Circ	
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#### IOS Number : **49791**

Date/Time	: 10.09.2019	Created by:	Elizabeth	Mcclellan	Please send report to:	Jessica Kram	ner		
Lab# From	Carlsbad	Delivery Pri	ority:		Address:	1089 N Cana	l Street		
Lab# To:	Lubbock	Air Bill No.	:		E-Mail:	jessica.krame	er@xen	co.com	
Sample Id	Matrix Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	РМ	Analytes	Sign
639515-001	S AH #1 (0-1')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	
639515-002	S AH #1 (1-1.5')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	
639515-006	S AH #2 (0-1')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	
639515-007	S AH #2 (1-1.5')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	
639515-014	S AH #3 (0-1')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	
639515-015	S AH #4 (0-1')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	
639515-016	S AH #5 (0-1')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	
639515-017	S AH #6 (0-1')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	
639515-019	S AH #7 (0-1')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	
639515-020	S AH #8 (0-1')	10.09.2019 00:00	SW8021B	BTEX by EPA 8021B	10.11.2019	10.23.2019	JKR	BR4FBZ BZ BZME EBZ	

#### Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 10.09.2019

Received By:	
-	
Date Received:	
Cooler Temperature:	



Page 1 of 1

#### IOS Number 49840

Lab# From: Carlsbad

Date/Time: 10/10/19 10:19

Created by: Elizabeth Mcclellan

Please send report to: Jessica Kramer

Delivery Priority:

Lab# To: Lubbock

Air Bill No.: FEDEX

Address: 1089 N Canal Street

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	РМ	Analytes	Sign
639515-001	S	AH #1 (0-1')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	
639515-002	S	AH #1 (1-1.5')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	
639515-006	S	AH #2 (0-1')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	
639515-007	S	AH #2 (1-1.5')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	
639515-014	S	AH #3 (0-1')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	
639515-015	S	AH #4 (0-1')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	
639515-016	S	AH #5 (0-1')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	
639515-017	S	AH #6 (0-1')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	
639515-019	S	AH #7 (0-1')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	
639515-020	S	AH #8 (0-1')	10/09/19 00:00	SW8021B	BTEX by EPA 8021B	10/11/19	10/23/19	JKR	BR4FBZ BZ BZME EBZ X	

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 10/10/2019

Received By:	Re
	Ashley Derstine

Date Received: <u>10/11/2019 09:30</u>

Cooler Temperature: 1.9



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Page 1 of 2

## IOS Number 49841

Date/Time: 10/10/19 10:19

Lab# From: Carlsbad

Lab# To: Midland

Created by: Elizabeth Mcclellan

**Delivery Priority:** 

Air Bill No.:

Please send report to: Jessica Kramer

Address: 1089 N Canal Street

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
639515-001	S	AH #1 (0-1')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-001	S	AH #1 (0-1')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-002	S	AH #1 (1-1.5')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-002	S	AH #1 (1-1.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-003	S	AH #1 (2-2.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-004	S	AH #1 (3-3.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-005	S	AH #1 (3.5-4')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-006	S	AH #2 (0-1')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-006	S	AH #2 (0-1')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-007	S	AH #2 (1-1.5')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-007	S	AH #2 (1-1.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-008	S	AH #2 (2-2.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-009	S	AH #2 (3-3.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-010	S	AH #2 (4-4.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-011	S	AH #2 (5-5.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-012	S	AH #2 (6-6.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-013	S	AH #2 (7-7.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-014	S	AH #3 (0-1')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-014	S	AH #3 (0-1')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-015	S	AH #4 (0-1')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-015	S	AH #4 (0-1')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-016	S	AH #5 (0-1')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-016	S	AH #5 (0-1')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-017	S	AH #6 (0-1')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-017	S	AH #6 (0-1')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	



Page 2 of 2

## IOS Number 49841

Date/Time:	10/10/19 10:19	Created by: Elizabeth Mcc	elellan Ple	ease send report to:	Jessica Kramer	
Lab# From:	Carlsbad	Delivery Priority:		Address:	1089 N Canal Street	t
Lab# To:	<b>Midland</b> Air Bill No.:			E-Mail:	jessica.kramer@xen	co.com
				1		

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	РМ	Analytes	Sign
639515-018	S	AH #6 (1-1.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-019	S	AH #7 (0-1')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-019	S	AH #7 (0-1')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-020	S	AH #8 (0-1')	10/09/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	10/11/19	10/23/19	JKR	PHCC10C28 PHCC28C35	
639515-020	S	AH #8 (0-1')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	
639515-021	S	AH #8 (1-1.5')	10/09/19 00:00	E300	Inorganic Anions by EPA 300/300.1	10/11/19	11/06/19	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 10/10/2019

Received By:

Date Received:

Cooler Temperature:

Received by OCD: 3/7/2024 (8:29:54 24MM

ABORATORIES

## **XENCO** Laboratories

## Inter Office Report- Sample Receipt Checklist

Sent To: Lubbock IOS #: 49840

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

Sent By:	Elizabeth McClellan	Date Sent:	10/10/2019 10:19 AM
Received By:	Ashley Derstine	Date Received:	10/11/2019 09:30 AM

#### Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.9
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

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

NonConformance:

**Corrective Action Taken:** 

Nonconformance Documentation					
Contact:		Contacted by :	Date:		
	Checklist reviewed by:	ARC	Date: 10/11/2019		

Ashley Derstine

Date: <u>10/11/2019</u>

Received by OCD: 3/7/2024 (8:29:54 AMM

XENCO

## **XENCO** Laboratories

## Inter Office Report- Sample Receipt Checklist

Sent To: Midland IOS #: 49841			Acceptable Temperature Ran Air and Metal samples Accep Temperature Measuring devi	table Range: Ambient
Sent By:	Elizabeth McClellan	Date Sent:	10/10/2019 10:19 AM	
Received By	:	Date Received:		
		Sample Rec	eipt Checklist	Comments
#1 *Temper	ature of cooler(s)?			
#2 *Shipping	g container in good conditi	on?		
#3 *Sample	s received with appropriate	e temperature?		
#4 *Custody	/ Seals intact on shipping	container/ cooler?		
#5 *Custody	/ Seals Signed and dated f	or Containers/coole	rs	
#6 *IOS pres	sent?			
	sing/extra samples?			
-	es with sample label(s)/m	atrix?		
-	matrix/ properties agree wi			
-	es in proper container/ bott			
•	es properly preserved?			
-	container(s) intact?			
-	nt sample amount for indic	cated test(s)?		
	ples received within hold t			
* Must be co	mpleted for after-hours o	delivery of sample	s prior to placing in the refrigerat	or
NonConforma	ance:			
Corrective Ac	tion Taken:			
		Nonconfor	mance Documentation	
Contact:		Contacted by :		Date:
	Checklist reviewed by:		Date:	

.

Received by OCD: 3/7/2024 (8:129:54 24MM



## **XENCO** Laboratories



#### Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 10/09/2019 03:46:00 PM Temperature Measuring device used : T-NM-007 Work Order #: 639515 Comments Sample Receipt Checklist 4.4 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6\*Custody Seals Signed and dated? Yes #7 \*Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when 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)? Yes BTEX samples subbed to Lubbock. TPH and CL subbed to Midland. #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: Elizabeth McClellan

Date: 10/09/2019

Checklist reviewed by: Jession Veramer

Jessica Kramer

Date: 10/09/2019

. Released to Imaging: 4/17/2024 2:26:52 PM



December 20, 2019

MIKE CARMONA TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: ROY BATTY FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 12/19/19 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager


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

Received:	12/19/2019	Sampling Date:	12/19/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

## Sample ID: BOTTOMHOLE #1 (4' BEB) (H904253-01)

BTEX 8021B	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2019	ND	2.02	101	2.00	4.82	
Toluene*	<0.050	0.050	12/20/2019	ND	2.00	100	2.00	6.43	
Ethylbenzene*	<0.050	0.050	12/20/2019	ND	2.07	104	2.00	2.60	
Total Xylenes*	<0.150	0.150	12/20/2019	ND	6.12	102	6.00	2.52	
Total BTEX	<0.300	0.300	12/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	12/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2019	ND	215	108	200	1.64	
DRO >C10-C28*	<10.0	10.0	12/20/2019	ND	216	108	200	0.0223	
EXT DRO >C28-C36	<10.0	10.0	12/20/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	,						
Surrogate: 1-Chlorooctadecane	112 9	37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2019	Sampling Date:	12/19/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

#### Sample ID: BOTTOMHOLE #2 (4' BEB) (H904253-02)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2019	ND	2.02	101	2.00	4.82	
Toluene*	<0.050	0.050	12/20/2019	ND	2.00	100	2.00	6.43	
Ethylbenzene*	<0.050	0.050	12/20/2019	ND	2.07	104	2.00	2.60	
Total Xylenes*	<0.150	0.150	12/20/2019	ND	6.12	102	6.00	2.52	
Total BTEX	<0.300	0.300	12/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2019	ND	215	108	200	1.64	
DRO >C10-C28*	<10.0	10.0	12/20/2019	ND	216	108	200	0.0223	
EXT DRO >C28-C36	<10.0	10.0	12/20/2019	ND					
Surrogate: 1-Chlorooctane	95.2	% 41-142							
Surrogate: 1-Chlorooctadecane	101 9	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2019	Sampling Date:	12/19/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

## Sample ID: EAST 1 SIDEWALL (H904253-03)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2019	ND	2.02	101	2.00	4.82	
Toluene*	<0.050	0.050	12/20/2019	ND	2.00	100	2.00	6.43	
Ethylbenzene*	<0.050	0.050	12/20/2019	ND	2.07	104	2.00	2.60	
Total Xylenes*	<0.150	0.150	12/20/2019	ND	6.12	102	6.00	2.52	
Total BTEX	<0.300	0.300	12/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2019	ND	215	108	200	1.64	
DRO >C10-C28*	<10.0	10.0	12/20/2019	ND	216	108	200	0.0223	
EXT DRO >C28-C36	<10.0	10.0	12/20/2019	ND					
Surrogate: 1-Chlorooctane	107 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	113 9	37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2019	Sampling Date:	12/19/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

#### Sample ID: WEST 1 SIDEWALL (H904253-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2019	ND	2.02	101	2.00	4.82	
Toluene*	<0.050	0.050	12/20/2019	ND	2.00	100	2.00	6.43	
Ethylbenzene*	<0.050	0.050	12/20/2019	ND	2.07	104	2.00	2.60	
Total Xylenes*	<0.150	0.150	12/20/2019	ND	6.12	102	6.00	2.52	
Total BTEX	<0.300	0.300	12/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2019	ND	215	108	200	1.64	
DRO >C10-C28*	<10.0	10.0	12/20/2019	ND	216	108	200	0.0223	
EXT DRO >C28-C36	<10.0	10.0	12/20/2019	ND					
Surrogate: 1-Chlorooctane	107	% 41-142							
Surrogate: 1-Chlorooctadecane	112 9	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2019	Sampling Date:	12/19/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

#### Sample ID: BOTTOMHOLE #3 ( 4' BEB ) (H904253-05)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2019	ND	2.02	101	2.00	4.82	
Toluene*	<0.050	0.050	12/20/2019	ND	2.00	100	2.00	6.43	
Ethylbenzene*	<0.050	0.050	12/20/2019	ND	2.07	104	2.00	2.60	
Total Xylenes*	<0.150	0.150	12/20/2019	ND	6.12	102	6.00	2.52	
Total BTEX	<0.300	0.300	12/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2019	ND	215	108	200	1.64	
DRO >C10-C28*	<10.0	10.0	12/20/2019	ND	216	108	200	0.0223	
EXT DRO >C28-C36	<10.0	10.0	12/20/2019	ND					
Surrogate: 1-Chlorooctane	107 9	% 41-142							
Surrogate: 1-Chlorooctadecane	113 9	37.6-14	7						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2019	Sampling Date:	12/19/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

#### Sample ID: BOTTOMHOLE #4 (4' BEB) (H904253-06)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2019	ND	2.02	101	2.00	4.82	
Toluene*	<0.050	0.050	12/20/2019	ND	2.00	100	2.00	6.43	
Ethylbenzene*	<0.050	0.050	12/20/2019	ND	2.07	104	2.00	2.60	
Total Xylenes*	<0.150	0.150	12/20/2019	ND	6.12	102	6.00	2.52	
Total BTEX	<0.300	0.300	12/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2019	ND	215	108	200	1.64	
DRO >C10-C28*	<10.0	10.0	12/20/2019	ND	216	108	200	0.0223	
EXT DRO >C28-C36	<10.0	10.0	12/20/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142							
Surrogate: 1-Chlorooctadecane	114 9	% 37.6-14	7						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2019	Sampling Date:	12/19/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

#### Sample ID: BOTTOMHOLE #5 (4' BEB) (H904253-07)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2019	ND	2.02	101	2.00	4.82	
Toluene*	<0.050	0.050	12/20/2019	ND	2.00	100	2.00	6.43	
Ethylbenzene*	<0.050	0.050	12/20/2019	ND	2.07	104	2.00	2.60	
Total Xylenes*	<0.150	0.150	12/20/2019	ND	6.12	102	6.00	2.52	
Total BTEX	<0.300	0.300	12/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2019	ND	215	108	200	1.64	
DRO >C10-C28*	<10.0	10.0	12/20/2019	ND	216	108	200	0.0223	
EXT DRO >C28-C36	<10.0	10.0	12/20/2019	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142							
Surrogate: 1-Chlorooctadecane	110 9	37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2019	Sampling Date:	12/19/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

#### Sample ID: SOUTH 2 SIDEWALL (H904253-08)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2019	ND	2.02	101	2.00	4.82	
Toluene*	<0.050	0.050	12/20/2019	ND	2.00	100	2.00	6.43	
Ethylbenzene*	<0.050	0.050	12/20/2019	ND	2.07	104	2.00	2.60	
Total Xylenes*	<0.150	0.150	12/20/2019	ND	6.12	102	6.00	2.52	
Total BTEX	<0.300	0.300	12/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2019	ND	215	108	200	1.64	
DRO >C10-C28*	<10.0	10.0	12/20/2019	ND	216	108	200	0.0223	
EXT DRO >C28-C36	<10.0	10.0	12/20/2019	ND					
Surrogate: 1-Chlorooctane	107 9	% 41-142							
Surrogate: 1-Chlorooctadecane	113 9	37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2019	Sampling Date:	12/19/2019
Reported:	12/20/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

#### Sample ID: NORTH 3 SIDEWALL (H904253-09)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2019	ND	2.02	101	2.00	4.82	
Toluene*	<0.050	0.050	12/20/2019	ND	2.00	100	2.00	6.43	
Ethylbenzene*	<0.050	0.050	12/20/2019	ND	2.07	104	2.00	2.60	
Total Xylenes*	<0.150	0.150	12/20/2019	ND	6.12	102	6.00	2.52	
Total BTEX	<0.300	0.300	12/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2019	ND	215	108	200	1.64	
DRO >C10-C28*	<10.0	10.0	12/20/2019	ND	216	108	200	0.0223	
EXT DRO >C28-C36	<10.0	10.0	12/20/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142							
Surrogate: 1-Chlorooctadecane	114 9	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received	by	<b>OCD</b> :	3/	7/2024	(8:12)9:54	<b>24M</b> M
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Received by O	CD: 3/2	7/2024	( <b>8 12</b> /9 55/4	12 <b>A</b> M	M																		Ра	ř.	3 of 144
	Relinquished by:	Relinquished by:	Relinquished by	4	19	1	5	(n_	F (	(J)	И	-	( ONLY )	LAB #	Centrality	112011052	Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	F	Analysis Requ	Page 12 of 12
e	y: Date: Time:	r Date: Time:	ustur Flores 12-1.	NORTH 3 Sidewall	Side	Botom Hole# 3 (4' BEB)		Hol		Fast I side Wall	Bottom Hole #2 (4'BEB)	Rottom Hole #1 (4'BEB)		SAMPLE IDEN IIFICATION			à	ary: Cardinal	COG - Ike Tavrez	Lea Co, NM	Roy Batty Federal Com 3H (8.29.19)	Concho	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record	
ORIGINAL COPY	Received by:	negerved by.	11			-						61-61-61		ATE ME	YEAR: 2019	SAMPLING			Sampler Signature:		D 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	Site Manager.			
~	Date: Time:		Date: Time:						X	×	X		S( H H	ATER OIL CL NO <sub>3</sub> CE	1	MATRIX METHOD	1			212C-MD-01962		Mike Carmona	Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946		
	-		[19 16:SD						1 N	IN.	IN I		F		ED (\	ERS Y/N)	TEX 820	10100	luctin Elorne						
(Circle) HAND DELIVERED	170	Sample Temperature	ONLY						XX	-		< >	Т (Т Р Т	PH 80 PAH 82 Total Me TCLP M	(1005 15M 270C etals	i (Ext ( GR Ag As Ag A	to C35) O - DRO s Ba Cd As Ba Cd	- OR Cr Pb	Se Hg	))		(Circle	8		
FEUEX UFS Having	Special Report	Rush Charges Authorized	STANDARD H: Same Day 24 hr	REMARKS:						X	×	× ;	T F 0 F F X 0	GC/MS PCB's NORM PLM (A Chlorid Chlorid Genera	Vol. Semi 8082 asbest e Je	/olatil 8260 i. Vol / 608 tos) Sulfa	DB / 624 I. 8270C 3 I. 8270C Chemistr	S	e attach	ed list)		or Specify Method No.)	ANALYSIS REQUEST		Page
. Released to In		4/17/2	48 hr 72 hr 2024 2:2	26:52	PM									Anion/ Hold								-			ç.



December 23, 2019

MIKE CARMONA TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: ROY BATTY FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 12/20/19 15:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/20/2019	Sampling Date:	12/20/2019
Reported:	12/23/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

## Sample ID: BOTTOMHOLE #6 (4' BEB) (H904264-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.02	
Toluene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.46	
Ethylbenzene*	<0.050	0.050	12/21/2019	ND	1.91	95.6	2.00	9.93	
Total Xylenes*	<0.150	0.150	12/21/2019	ND	5.67	94.5	6.00	9.73	
Total BTEX	<0.300	0.300	12/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	12/23/2019	ND	400	100	400	3.92	QM-07
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2019	ND	225	112	200	1.87	
DRO >C10-C28*	<10.0	10.0	12/21/2019	ND	219	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	12/21/2019	ND					
Surrogate: 1-Chlorooctane	115 9	% 41-142							
Surrogate: 1-Chlorooctadecane	124 9	37.6-142	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/20/2019	Sampling Date:	12/20/2019
Reported:	12/23/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: BOTTOMHOLE #7 (4' BEB) (H904264-02)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.02	
Toluene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.46	
Ethylbenzene*	<0.050	0.050	12/21/2019	ND	1.91	95.6	2.00	9.93	
Total Xylenes*	<0.150	0.150	12/21/2019	ND	5.67	94.5	6.00	9.73	
Total BTEX	<0.300	0.300	12/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/23/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2019	ND	225	112	200	1.87	
DRO >C10-C28*	<10.0	10.0	12/21/2019	ND	219	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	12/21/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142							
Surrogate: 1-Chlorooctadecane	116 9	37.6-14	7						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/20/2019	Sampling Date:	12/20/2019
Reported:	12/23/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: BOTTOMHOLE #8 (4' BEB) (H904264-03)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.02	
Toluene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.46	
Ethylbenzene*	<0.050	0.050	12/21/2019	ND	1.91	95.6	2.00	9.93	
Total Xylenes*	<0.150	0.150	12/21/2019	ND	5.67	94.5	6.00	9.73	
Total BTEX	<0.300	0.300	12/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	12/23/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2019	ND	225	112	200	1.87	
DRO >C10-C28*	<10.0	10.0	12/21/2019	ND	219	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	12/21/2019	ND					
Surrogate: 1-Chlorooctane	120	% 41-142							
Surrogate: 1-Chlorooctadecane	128	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/20/2019	Sampling Date:	12/20/2019
Reported:	12/23/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: BOTTOMHOLE #9 (4' BEB) (H904264-04)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.02	
Toluene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.46	
Ethylbenzene*	<0.050	0.050	12/21/2019	ND	1.91	95.6	2.00	9.93	
Total Xylenes*	<0.150	0.150	12/21/2019	ND	5.67	94.5	6.00	9.73	
Total BTEX	<0.300	0.300	12/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	12/23/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2019	ND	225	112	200	1.87	
DRO >C10-C28*	<10.0	10.0	12/21/2019	ND	219	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	12/21/2019	ND					
Surrogate: 1-Chlorooctane	119 9	% 41-142							
Surrogate: 1-Chlorooctadecane	130 \$	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/20/2019	Sampling Date:	12/20/2019
Reported:	12/23/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: SOUTH 1 SIDEWALL (H904264-05)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.02	
Toluene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.46	
Ethylbenzene*	<0.050	0.050	12/21/2019	ND	1.91	95.6	2.00	9.93	
Total Xylenes*	<0.150	0.150	12/21/2019	ND	5.67	94.5	6.00	9.73	
Total BTEX	<0.300	0.300	12/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2019	ND	225	112	200	1.87	
DRO >C10-C28*	<10.0	10.0	12/21/2019	ND	219	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	12/21/2019	ND					
Surrogate: 1-Chlorooctane	120 9	% 41-142							
Surrogate: 1-Chlorooctadecane	128 9	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/20/2019	Sampling Date:	12/20/2019
Reported:	12/23/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: NORTH 4 SIDEWALL (H904264-06)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.02	
Toluene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.46	
Ethylbenzene*	<0.050	0.050	12/21/2019	ND	1.91	95.6	2.00	9.93	
Total Xylenes*	<0.150	0.150	12/21/2019	ND	5.67	94.5	6.00	9.73	
Total BTEX	<0.300	0.300	12/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2019	ND	225	112	200	1.87	
DRO >C10-C28*	<10.0	10.0	12/21/2019	ND	219	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	12/21/2019	ND					
Surrogate: 1-Chlorooctane	118 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	127	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/20/2019	Sampling Date:	12/20/2019
Reported:	12/23/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: WEST 2 SIDEWALL (H904264-07)

BTEX 8021B	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.02	
Toluene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.46	
Ethylbenzene*	<0.050	0.050	12/21/2019	ND	1.91	95.6	2.00	9.93	
Total Xylenes*	<0.150	0.150	12/21/2019	ND	5.67	94.5	6.00	9.73	
Total BTEX	<0.300	0.300	12/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 :	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/23/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2019	ND	225	112	200	1.87	
DRO >C10-C28*	<10.0	10.0	12/21/2019	ND	219	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	12/21/2019	ND					
Surrogate: 1-Chlorooctane	118 9	% 41-142							
Surrogate: 1-Chlorooctadecane	125	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/20/2019	Sampling Date:	12/20/2019
Reported:	12/23/2019	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: EAST 2 SIDEWALL (H904264-08)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.02	
Toluene*	<0.050	0.050	12/21/2019	ND	1.92	96.0	2.00	9.46	
Ethylbenzene*	<0.050	0.050	12/21/2019	ND	1.91	95.6	2.00	9.93	
Total Xylenes*	<0.150	0.150	12/21/2019	ND	5.67	94.5	6.00	9.73	
Total BTEX	<0.300	0.300	12/21/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/23/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2019	ND	225	112	200	1.87	
DRO >C10-C28*	<10.0	10.0	12/21/2019	ND	219	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	12/21/2019	ND					
Surrogate: 1-Chlorooctane	96.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Page 94 of 144

# Received by OCD: 3/7/2024(8:129:5424MM

	Relinquished by:	Relinquished by:	8	2	6	5	-	(U)	N	-	LAB USE	HONDIN	Receiving Laboratory: Comments:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	5
	Date: Time:	Mortuny 12/20/19 Date: Time:	EA6T 2 Sidemaall	2 2	NORTH BAN 4 SIdewall	South 1 Sidewall	Bothern Holder (4:8EB)	B. How H. L. 48 (4. 8E8)	3. then How #7 (4' BEB)	Bottom Hole # 6 (4' BEB)	SAMPLE IDENTIFICATION		Cardinal	COG - Ike Tavrez	Lea Co, NM	Roy Batty Federal Com 3H (8.29.19)	Cancho	Tetra Tech, Inc.
ORIGINAL COPY	Received by:	Received/by:	<							12/20/4	DATE 2019	SAMPLING	Sampler Signature:		Project #:		Site Manager:	
COPY		era Mala	- 4						-	×	TIME WATER SOIL	ING MATRIX			212		Mike C	901V
	35	Date: Time:							-	×	HCL HNO <sub>3</sub> ICE None	X PRESERVATIVE METHOD	Conner Moehring / J		212C-MD-01962		Carmona	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
6		19 IS:W									# CONTAINE FILTERED (\ BTEX 8021B	RS 7/N)	ustin Flores					
(Circle) HAND DELIVERED	Sample Temperature 2. 20 #A7 Correcteef 2.60		<							×	TPH TX1005 TPH 8015M ( PAH 8270C Total Metals A TCLP Metals A	(Ext to GRO og As E Ag As	Sector and the sector sector	lg				
ED FEDEX UPS	Bush Charges Authorized	REMARKS: STANDARD									TCLP Volatile: TCLP Semi Vo RCI GC/MS Vol. 8 GC/MS Semi. PCB's 8082 /	260B Vol. 8	624			or specity	ANALYSIS RE	
Tracking #:	orized		4			-			-	×	NORM PLM (Asbesto Chloride Chloride Su	s) Ilfate	TDS nistry (see attac	hed list	t)			r age
	нерол Imaging: 4/	48 hr 72 hr									Anion/Cation		and the second s					_ _

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January 03, 2020

MIKE CARMONA TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: ROY BATTY FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/02/20 16:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/02/2020	Sampling Date:	01/02/2020
Reported:	01/03/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

# Sample ID: SOUTH 3 SIDEWALL (H000010-01)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2020	ND	1.94	97.0	2.00	2.82	
Toluene*	<0.050	0.050	01/03/2020	ND	1.98	99.0	2.00	1.69	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.99	99.8	6.00	1.65	
Total BTEX	<0.300	0.300	01/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/03/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	216	108	200	0.935	
DRO >C10-C28*	<10.0	10.0	01/03/2020	ND	232	116	200	0.240	
EXT DRO >C28-C36	<10.0	10.0	01/03/2020	ND					
Surrogate: 1-Chlorooctane	102 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	114 9	37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/02/2020	Sampling Date:	01/02/2020
Reported:	01/03/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: SOUTH 4 SIDEWALL (H000010-02)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2020	ND	1.94	97.0	2.00	2.82	
Toluene*	<0.050	0.050	01/03/2020	ND	1.98	99.0	2.00	1.69	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.99	99.8	6.00	1.65	
Total BTEX	<0.300	0.300	01/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/03/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	216	108	200	0.935	
DRO >C10-C28*	<10.0	10.0	01/03/2020	ND	232	116	200	0.240	
EXT DRO >C28-C36	<10.0	10.0	01/03/2020	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142							
Surrogate: 1-Chlorooctadecane	118 9	37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/02/2020	Sampling Date:	01/02/2020
Reported:	01/03/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: BOTTOMHOLE #10 (4'-4.5' BEB) (H000010-03)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2020	ND	1.94	97.0	2.00	2.82	
Toluene*	<0.050	0.050	01/03/2020	ND	1.98	99.0	2.00	1.69	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.99	99.8	6.00	1.65	
Total BTEX	<0.300	0.300	01/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/03/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	216	108	200	0.935	
DRO >C10-C28*	<10.0	10.0	01/03/2020	ND	232	116	200	0.240	
EXT DRO >C28-C36	<10.0	10.0	01/03/2020	ND					
Surrogate: 1-Chlorooctane	104	% 41-142							
Surrogate: 1-Chlorooctadecane	119 9	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/02/2020	Sampling Date:	01/02/2020
Reported:	01/03/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: NORTH 5 SIDEWALL (H000010-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2020	ND	1.94	97.0	2.00	2.82	
Toluene*	<0.050	0.050	01/03/2020	ND	1.98	99.0	2.00	1.69	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.99	99.8	6.00	1.65	
Total BTEX	<0.300	0.300	01/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/03/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	216	108	200	0.935	
DRO >C10-C28*	<10.0	10.0	01/03/2020	ND	232	116	200	0.240	
EXT DRO >C28-C36	<10.0	10.0	01/03/2020	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	,						
Surrogate: 1-Chlorooctadecane	121	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/02/2020	Sampling Date:	01/02/2020
Reported:	01/03/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: NORTH 6 SIDEWALL (H000010-05)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2020	ND	1.94	97.0	2.00	2.82	
Toluene*	<0.050	0.050	01/03/2020	ND	1.98	99.0	2.00	1.69	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.99	99.8	6.00	1.65	
Total BTEX	<0.300	0.300	01/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/03/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	216	108	200	0.935	
DRO >C10-C28*	<10.0	10.0	01/03/2020	ND	232	116	200	0.240	
EXT DRO >C28-C36	<10.0	10.0	01/03/2020	ND					
Surrogate: 1-Chlorooctane	112 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	125 9	% 37.6-14	7						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/02/2020	Sampling Date:	01/02/2020
Reported:	01/03/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: SOUTH 5 SIDEWALL (H000010-06)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2020	ND	1.94	97.0	2.00	2.82	
Toluene*	<0.050	0.050	01/03/2020	ND	1.98	99.0	2.00	1.69	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.99	99.8	6.00	1.65	
Total BTEX	<0.300	0.300	01/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/03/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	216	108	200	0.935	
DRO >C10-C28*	<10.0	10.0	01/03/2020	ND	232	116	200	0.240	
EXT DRO >C28-C36	<10.0	10.0	01/03/2020	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	119 9	37.6-14	7						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/02/2020	Sampling Date:	01/02/2020
Reported:	01/03/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: SOUTH 6 SIDEWALL (H000010-07)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2020	ND	1.94	97.0	2.00	2.82	
Toluene*	<0.050	0.050	01/03/2020	ND	1.98	99.0	2.00	1.69	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.99	99.8	6.00	1.65	
Total BTEX	<0.300	0.300	01/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/03/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	216	108	200	0.935	
DRO >C10-C28*	<10.0	10.0	01/03/2020	ND	232	116	200	0.240	
EXT DRO >C28-C36	<10.0	10.0	01/03/2020	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	,						
Surrogate: 1-Chlorooctadecane	117 9	% 37.6-14	7						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/02/2020	Sampling Date:	01/02/2020
Reported:	01/03/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

## Sample ID: EAST 3 SIDEWALL (H000010-08)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2020	ND	1.94	97.0	2.00	2.82	
Toluene*	<0.050	0.050	01/03/2020	ND	1.98	99.0	2.00	1.69	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.99	99.8	6.00	1.65	
Total BTEX	<0.300	0.300	01/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/03/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	216	108	200	0.935	
DRO >C10-C28*	<10.0	10.0	01/03/2020	ND	232	116	200	0.240	
EXT DRO >C28-C36	<10.0	10.0	01/03/2020	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	120 9	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/02/2020	Sampling Date:	01/02/2020
Reported:	01/03/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: WEST 3 SIDEWALL (H000010-09)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2020	ND	1.94	97.0	2.00	2.82	
Toluene*	<0.050	0.050	01/03/2020	ND	1.98	99.0	2.00	1.69	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.99	99.8	6.00	1.65	
Total BTEX	<0.300	0.300	01/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/03/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	216	108	200	0.935	
DRO >C10-C28*	<10.0	10.0	01/03/2020	ND	232	116	200	0.240	
EXT DRO >C28-C36	<10.0	10.0	01/03/2020	ND					
Surrogate: 1-Chlorooctane	77.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.6	% 37.6-14	7						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Received by OCD: 3/7/2024(8:29:54 24MM

Page 106 of 144 Z1 jo Z1 ebed

	Helinquished by:	duranda	Felinquished by		0 East	-	6 South	S NORTH	4 NORTH	3 Bottor	Z Sonth	1 South	( LAB USE )	HODDO/O		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	7	Analysis Reques
	Date: Time:		orter 1/2/20 1635		3 510	1.	the Sidewall	STA 6 Sidewar'l	2TH S Sidewall	en Hole # 10 (+- u.S. BEB)	th 4 Sidemail	th 3 Sidewall		SAMPLE IDENTIFICATION			Cardinal	COG - Ike Tavrez	Lea Co, NM	Roy Batty Federal Com 3H (8.29.19)	Concho	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	Received by:	neceived by.	Beceived by:		<			_				1/2/20	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
PΥ	Date:	Jaire	ra Walder		<							×	WATEF SOIL HCL	3	MATRIX		Conner Moehring /		212C-MD-01962		Mike Carmona	901W Wall Street, Ste 100 Midland,Texas 78705 Tel (432) 682-4559 Fax (432) 682-3946	
	Time:	- IIIIe	11mer	1 <								X	HNO <sub>3</sub> ICE None # CONT,	AINE	METHOD R		Justin		-01962		la	eet, Ste 100 aas 79705 82-4559 382-3946	
(Circle)		Samp	1635					_			1		FILTERE	)21B	BTE	X 8260B	Flores						
IE) HAND DELIVERED	4.0.70	le Tempe	ONLY								-	×	TPH TX TPH 801 PAH 827 Total Met TCLP Me	5M ( 70C tals A	GRO - g As B	DRO - C a Cd Cr F	Pb Se H	łg					
FEDEX	Specie	Rush											TCLP Vo TCLP Se RCI GC/MS V	latiles mi Vo	latiles					e or speci	ANAL		
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<b>#</b>	Special Report Limits or TRRP Report	48 Nr											Chloride Chloride General <sup>1</sup> Anion/Ca	Wate			e attac	ched lis	t)	d NO.)			ge 🥠
. Released to		g: 4/1		:26:5	2 - PA	1-						_	Hold										으.



January 06, 2020

MIKE CARMONA TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: ROY BATTY FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/03/20 14:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/03/2020	Sampling Date:	01/03/2020
Reported:	01/06/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

# Sample ID: BOTTOMHOLE #11 (6" BEB) (H000020-01)

BTEX 8021B	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2020	ND	1.82	90.8	2.00	6.28	
Toluene*	<0.050	0.050	01/04/2020	ND	1.84	91.8	2.00	5.76	
Ethylbenzene*	<0.050	0.050	01/04/2020	ND	1.90	95.0	2.00	5.84	
Total Xylenes*	<0.150	0.150	01/04/2020	ND	5.55	92.4	6.00	5.92	
Total BTEX	<0.300	0.300	01/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2020	ND	201	101	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/04/2020	ND	207	104	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/04/2020	ND					
Surrogate: 1-Chlorooctane	85.9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	89.4	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

Received:	01/03/2020	Sampling Date:	01/03/2020
Reported:	01/06/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

### Sample ID: NORTH 7 SIDEWALL (H000020-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2020	ND	1.82	90.8	2.00	6.28	
Toluene*	<0.050	0.050	01/04/2020	ND	1.84	91.8	2.00	5.76	
Ethylbenzene*	<0.050	0.050	01/04/2020	ND	1.90	95.0	2.00	5.84	
Total Xylenes*	<0.150	0.150	01/04/2020	ND	5.55	92.4	6.00	5.92	
Total BTEX	<0.300	0.300	01/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2020	ND	201	101	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/04/2020	ND	207	104	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/04/2020	ND					
Surrogate: 1-Chlorooctane 86.5 % 41-142									
Surrogate: 1-Chlorooctadecane	89.2	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/03/2020	Sampling Date:	01/03/2020
Reported:	01/06/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

### Sample ID: SOUTH 7 SIDEWALL (H000020-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2020	ND	1.82	90.8	2.00	6.28	
Toluene*	<0.050	0.050	01/04/2020	ND	1.84	91.8	2.00	5.76	
Ethylbenzene*	<0.050	0.050	01/04/2020	ND	1.90	95.0	2.00	5.84	
Total Xylenes*	<0.150	0.150	01/04/2020	ND	5.55	92.4	6.00	5.92	
Total BTEX	<0.300	0.300	01/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2020	ND	201	101	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/04/2020	ND	207	104	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/04/2020	ND					
Surrogate: 1-Chlorooctane	84.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	<i>89.3</i>	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/03/2020	Sampling Date:	01/03/2020
Reported:	01/06/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

### Sample ID: WEST 4 SIDEWALL (H000020-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2020	ND	1.82	90.8	2.00	6.28	
Toluene*	<0.050	0.050	01/04/2020	ND	1.84	91.8	2.00	5.76	
Ethylbenzene*	<0.050	0.050	01/04/2020	ND	1.90	95.0	2.00	5.84	
Total Xylenes*	<0.150	0.150	01/04/2020	ND	5.55	92.4	6.00	5.92	
Total BTEX	<0.300	0.300	01/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	16.0 01/06/2020		416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2020	ND	201	101	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/04/2020	ND	207	104	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/04/2020	ND					
Surrogate: 1-Chlorooctane	90.8 % 41-14.								
Surrogate: 1-Chlorooctadecane	94.2	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/03/2020	Sampling Date:	01/03/2020
Reported:	01/06/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

### Sample ID: EAST 4 SIDEWALL (H000020-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2020	ND	1.82	90.8	2.00	6.28	
Toluene*	<0.050	0.050	01/04/2020	ND	1.84	91.8	2.00	5.76	
Ethylbenzene*	<0.050	0.050	01/04/2020	ND	1.90	95.0	2.00	5.84	
Total Xylenes*	<0.150	0.150	01/04/2020	ND	5.55	92.4	6.00	5.92	
Total BTEX	<0.300	0.300	01/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/06/2020 ND		416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2020	ND	201	101	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/04/2020	ND	207	104	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/04/2020	ND					
Surrogate: 1-Chlorooctane	Surrogate: 1-Chlorooctane 86.7 % 41-142								
Surrogate: 1-Chlorooctadecane	88.8	% 37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

		Relinquished by:	- All	Relinquished by:	Relinquished by:				1	5 EAST 4	WEST	3 SOUTH	2 NORTH	1 Bottom		HO00020		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:		Analysis Request (
	a ac	Date: lime:		CDate: Time:	Date: Time: 1/3/20					SIDEWALL.	4 SIDEWALL	7 SIDEWALL	7 SIDEWALL	Hole # 11 ( 6"828)		SAMPLE IDENTIFICATION			Cardinal	COG - Ike Tavrez	Lea Co, NM	Roy Batty Federal Com 3H (8.29.19)	Concho	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
, ,	ORIGINAL COPY	Heceived by:		Received by:	Received by:					1/3/20	1/3/20	1/3/20	1/3/20	1/3/20	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
.t.	~			Date: Time:	ra Allaber 1-3.					×	×		×	×	WATEF SOIL HCL HNO <sub>3</sub> ICE None	3	MATRIX PRESERVATIVE METHOD		Conner Moehring / Ju		212C-MD-01962		Mike Carmona	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
	(Circle)	10	#		-20 J445	_				- Z X	- Z ×	- Z ( ×	- Z ( X		# CONT	ED (Y 021B 1005	RS //N) BTI (Ext to	EX 8260							s.
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	FEDEX UPS Tracking #:	al Repor	Rush Charges Authorized	X RUSH: Same Day											RCI GC/MS V GC/MS S PCB's 8 NORM PLM (As	Vol. 8 Semi. 082 /	3260B Vol. 1 608	/ 624	25				ANALYSIS REQUEST		Page
	1#:	or TRRP Report	rized	24 hr 48 hr 72 hr											Chloride Chloride General Anion/C	e Si Wate		emistry (	see att	ached	list)		d No.)	11 12 - 22	ge / of
. Releas	sed to 1	Imagin	g: 4/	(17/2	2024-2	:26:.	52 PN	1							Hold										~

# Received by OCD: 3/7/2024(8:129:54:24MM

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Page 114 of 144



January 08, 2020

MIKE CARMONA TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: ROY BATTY FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/06/20 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/06/2020	Sampling Date:	01/03/2020
Reported:	01/08/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

### Sample ID: NORTH 1 SIDEWALL (H000035-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
Benzene*	<0.050	0.050	01/08/2020	ND	1.93	96.7	2.00	10.9					
Toluene*	<0.050	0.050	01/08/2020	ND	1.96	98.0	2.00	11.0					
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	2.02	101	2.00	11.0					
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.91	98.5	6.00	11.2					
Total BTEX	<0.300	0.300	01/08/2020	ND									
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9										
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
Chloride	1640	16.0	01/08/2020	ND	432	108	400	0.00					
TPH 8015M	mg/	/kg	Analyze	d By: MS									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	191	95.4	200	6.89					
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	220	110	200	2.66					
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND									
Surrogate: 1-Chlorooctane	ctane 74.5 % 41-14												
Surrogate: 1-Chlorooctadecane	76.8	% 37.6-14	7										

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/06/2020	Sampling Date:	01/03/2020
Reported:	01/08/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

### Sample ID: NORTH 2 SIDEWALL (H000035-02)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.93	96.7	2.00	10.9	
Toluene*	<0.050	0.050	01/08/2020	ND	1.96	98.0	2.00	11.0	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	2.02	101	2.00	11.0	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	5.91	98.5	6.00	11.2	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	% 73.3-12	9							
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	01/08/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	191	95.4	200	6.89	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	220	110	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane 71.5 %		% 41-142	,						
Surrogate: 1-Chlorooctadecane	73.1	% 37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.								
ND	Analyte NOT DETECTED at or above the reporting limit								
RPD	Relative Percent Difference								
**	Samples not received at proper temperature of 6°C or below.								
***	Insufficient time to reach temperature.								
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C								
	Samples reported on an as received basis (wet) unless otherwise noted on report								

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Received by OCD: 3/7/2024(8:129:542AMM

Page 119 of 144

Project Manager: Company Name:

MIKE CARMONA

P.O. #:

BILL

10

ANALYSIS

REQUEST

Tetra Tecn

(575) 393-2326 FAX (575) 393-2476

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Page 5 of 101 East Marland, Hobbs, NM 88240 ARDIN aboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Corrected Temp. °C

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4720



January 16, 2020

MIKE CARMONA TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: ROY BATTY FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/15/20 16:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/15/2020	Sampling Date:	01/13/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

### Sample ID: BOTTOMHOLE #12 ( 4-4.5' BEB ) (H000144-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2020	ND	1.72	86.0	2.00	16.1	
Toluene*	<0.050	0.050	01/16/2020	ND	1.75	87.7	2.00	15.4	
Ethylbenzene*	<0.050	0.050	01/16/2020	ND	1.77	88.3	2.00	16.8	
Total Xylenes*	<0.150	0.150	01/16/2020	ND	5.15	85.9	6.00	16.9	
Total BTEX	<0.300	0.300	01/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/16/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2020	ND	219	110	200	18.0	
DRO >C10-C28*	<10.0	10.0	01/16/2020	ND	239	119	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	01/16/2020	ND					
Surrogate: 1-Chlorooctane	Surrogate: 1-Chlorooctane 103 % 41-142								
Surrogate: 1-Chlorooctadecane	114	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/15/2020	Sampling Date:	01/13/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01962 (8.29.19)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

### Sample ID: BOTTOMHOLE #13 ( 4-4.5' BEB ) (H000144-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2020	ND	1.72	86.0	2.00	16.1	
Toluene*	<0.050	0.050	01/16/2020	ND	1.75	87.7	2.00	15.4	
Ethylbenzene*	<0.050	0.050	01/16/2020	ND	1.77	88.3	2.00	16.8	
Total Xylenes*	<0.150	0.150	01/16/2020	ND	5.15	85.9	6.00	16.9	
Total BTEX	<0.300	0.300	01/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/16/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2020	ND	219	110	200	18.0	
DRO >C10-C28*	<10.0	10.0	01/16/2020	ND	239	119	200	8.99	
EXT DRO >C28-C36	<10.0	10.0	01/16/2020	ND					
Surrogate: 1-Chlorooctane	104	% 41-142							
Surrogate: 1-Chlorooctadecane	115 9	37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by		3/7/20	24 (8:129	5542	fM M		 T		1					Т					Pa	ge 124 of
	Tellinguisried by:			Relinquished by:				2		ONLY	LAB #		* Aesu	Heceiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:		Analysis Rec
	Date: lime:		mpaling 1/15/2020 17	Date: Time:				± 13 (0-00.	Bottom Hoic # 12 (4,4.5 BEB)		SAMPLE IDENTIFICATION		uts to mike only t	iory: CARDINAL	Loc rougerens Cos . IKE	LEA COINM	TOY BATTY FED LOW	CONCHO	Tetra Tech, Inc.	ge 124 of Analysis Request of Chain of Custody Record
ORIGINAL COPY	Received by:		Booing her				02 51 1		1/13/20	DATE	YEAR: 2019 2020	SAMPLING		Sampler Signature:	TAVAREZ	Project #:	3H (8.29.14)	Site Manager:	ľ	
	Date: Time:		81	$\square$			×		X	WATEI SOIL HCL HNO <sub>3</sub> ICE None		MATRIX PRESERVATIVE METHOD		Conner Moehring		212C-MD-01962		Mike Carmona	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
(Circle) HA	X	Sample Temperature	14:10				- 2 X		Z X	трн тх	ED (Y 021B 1005 (	/N) BTE (Ext to	X 8260B C35) DRO - C		/RO)	2				
HAND DELIVERED FEDEX UPS Tracking #:	L, D & Special Report Limits or TRRP Report	Rush Charges Authorized	)							PAH 82 Total Me TCLP Me TCLP Vo TCLP Se RCI GC/MS V GC/MS S PCB's 80 NORM PLM (Asi Chloride Chloride	70C tals A etals A latiles mi Vo fol. 82 Semi. 1 082 / 6 D82 / 6 Setos	g As Ba ag As E latiles 260B / /ol. 82 308	a Cd Cr F 3a Cd Cr	Pb Se H Pb Se	łg Hg		Circle or specify internod No.)	ANALYSIS REQUEST		Page
eleased to		48 hr 72 hr		2:26:	·52 P)					Anion/Ca										of L

# ATTACHMENT B REGULATORY CORRESPONDENCE

# Hamlet, Robert, EMNRD

From:	Hamlet, Robert, EMNRD
Sent:	Tuesday, June 23, 2020 10:44 AM
То:	'Brittany Esparza'
Cc:	Bratcher, Mike, EMNRD; Venegas, Victoria, EMNRD; Eads, Cristina, EMNRD
Subject:	Closure Denied - COG - Roy Batty Fed Com #3H - (Incident #NRM1927338634) (1RP-5707)
Attachments:	Closure Denied - COG - Roy Batty Fed Com #3H.pdf

### Brittany,

We have received your closure report and final C-141 for Incident #NRM1927338634 Roy Batty Fed Com #3H, thank you. This closure is denied.

- When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.
- If you feel the depth to groundwater is >50', a shallow borehole can be drilled to 51' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the driller's log.

Please let me know if you have any further questions.

Regards,

Robert J Hamlet State of New Mexico Energy, Minerals, and Natural Resources Oil Conservation Division 811 S. First St., Artesia NM 88210 (575) 748-1283 Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From:	Sheldon Hitchcock
To:	Eads, Cristina, EMNRD
Cc:	<u>Enviro, OCD, EMNRD; Jennifer Knowlton; Ike Tavarez; Dakota Neel; Jacqui Harris; Brittany Esparza</u>
Subject:	[EXT] Re: [External] RE: (Depth to Water Confirmation) Roy Batty Com #003H (30-025-41333) 8/29/2019 (NRM2013929857) 1RP-5707
Date:	Monday, August 3, 2020 8:49:51 AM

### Christina,

Sorry I must have copied the wrong incident number. The boring is at the Roy Batty #3.

### Sent from my iPhone

On Aug 3, 2020, at 8:46 AM, Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us> wrote:

\*\*\*\* External email. Use caution. \*\*\*\*
Mr. Hitchcock,
Can you clarify at which site the boring was drilled?
Two incidents were referenced in this email. 1RP-5707 which has the incident #
NRM1927338634, and NRM2013929857 which is PICKELHAUBE STATE CTB and does not have an associated RP#.

Thanks,

### Cristina Eads | 505-670-5601

From: Sheldon Hitchcock <SLHitchcock@concho.com>Sent: Friday, July 31, 2020 8:50 AMTo: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>Cc: Jennifer Knowlton <jknowlton@concho.com>; Ike Tavarez <itavarez@concho.com>; Dakota Neel <DNeel2@concho.com>; Jacqui Harris <JHarris2@concho.com>; BrittanyEsparza <besparza@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>Subject: [EXT] (Depth to Water Confirmation) Roy Batty Com #003H (30-025-41333)8/29/2019 (NRM2013929857) 1RP-5707

To Whom It May Concern,

A borehole was installed at the above referenced site in order to demonstrate that depth to groundwater is greater than 50-feet BGS in the project area. On July 30, 2020, COG Operating, LLC installed a soil boring to a depth of 60' and no groundwater was encountered during the installation. Two (2) inch casing and screen was installed in the borehole and left open. As OCD recommends, the borehole will remain open for 72 hours prior to gauging the borehole for the presence of groundwater. We are schedule to gauge the borehole Monday morning (7/3/20). Once gauged, the borehole

will be plugged by the licensed driller. Let us know if you would like to be present to witness the gauging.

Thank you,

Sheldon L. Hitchcock HSE Coordinator COG Operating LLC 1401 Commerce Drive | Carlsbad, NM 88220 Cell: 575-703-6475 | Office: 575-748-1553 slhitchcock@concho.com

<image001.jpg>

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information herein, is prohibited. If you received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

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# ATTACHMENT C DTW BORING LOG

212C-M	D-02847	Ŧŧ		RATE	сн				LOG OF BORING DTW	Page 1 of 1
Project Name: Roy Batty Federal Com #003H Flange Release										
Borehole	LocationGPS	6 Coordinate	es: 32.2	225714	°, -103.	54055	0°		Surface Elevation: 3612 ft	
orehole	Number:DT	N					Bo	oreho	ole ter (in ): 8 Date Started: 7/30/2020 Date Finishe	ed: 7/30/2020
t) ION TYPE	Number:DT		SAMPLE RECOVERY (%) MOISTURE CONTENT (%)			PLASTICITY INDEX	MINUS NO. 200 (%)		WATER LEVEL OBSERVATIONS	DRY_ft REMARKS
55 - ( (									5555	
	_								Bottom of borehole at 55.0 feet.	
Sampler Types:	Split Spoon Shelby Bulk Sample Grab Sample	Var	etate Lir ne Shea crete mple st Pit		Opera Types	Mud Rota	tinuous nt Auge	r	Hand Auger Air Rotary Direct Push	on Google

Received by OCD: 3/7/2024 8:29:54 AM

# SCARBOROUGH DRILLING, INC. TEST HOLES · WATER WELLS

P.O. Box 305 - Ph. 806-872-3285 or 872-9349 LAMESA, TEXAS 79331 2001 South Hwy. 87

		WELL LOG
From	То	FORMATION
0	1	Caliche Prod
No.		TOD SAIL
14	many the strength	Caliche
23	4-7	Sand
47	55	Red Shalo
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### WELL LOG

**Released to Imaging: 4/17/2024 2:26:52 PM** 

# ATTACHMENT D PHOTOGRAPHIC DOCUMENTATION







TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north of approximate release area. Polylines and subsurface pipeline.	5
212C-MD-03244	SITE NAME	Roy Batty Federal Com #003H Release	2/2/2024

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 321083

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	321083
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

### QUESTIONS Droroguioitoo

Incident ID (n#)	nRM1927338634	
Incident Name	NRM1927338634 ROY BATTY FEDERAL COM #003H @ 0	
Incident Type	Produced Water Release	
Incident Status	Reclamation Report Received	
Incident Facility	[fDHR1915541470] ROY BATTY FEDERAL COM #001H FLOWLINE	

### Location of Release Source

Please answer all the questions in this group.			
Site Name	ROY BATTY FEDERAL COM #003H		
Date Release Discovered	08/29/2019		
Surface Owner	Private		

### Incident Details

Please answer all the questions in this group.			
Incident Type	Produced Water Release		
Did this release result in a fire or is the result of a fire	No		
Did this release result in any injuries	No		
Has this release reached or does it have a reasonable probability of reaching a watercourse	Νο		
Has this release endangered or does it have a reasonable probability of endangering public health	No		
Has this release substantially damaged or will it substantially damage property or the environment	No		
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No		

Nature and Volume of Release Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission Crude Oil Released (bbls) Details Not answered. Cause: Corrosion | Flow Line - Injection | Produced Water | Released: 60 BBL | Recovered: Produced Water Released (bbls) Details 40 BBL | Lost: 20 BBL Is the concentration of chloride in the produced water >10,000 mg/l Yes Condensate Released (bbls) Details Not answered. Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. Are there additional details for the questions above (i.e. any answer containing Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

Page 137 of 144

QUESTIONS, Page 2

Action 321083

**QUESTIONS** (continued) Operator: OGRID: COG OPERATING LLC 229137 600 W Illinois Ave Action Number Midland, TX 79701 321083 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.		
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes		
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.			

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ol ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of avaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 03/07/2024

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### District III

Operator:

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Midland, TX 79701

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

QUESTIONS, Page 3

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Action 321083

QUESTIONS (contin	nued)
	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:

321083

[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

Action Type:

### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date. st depth to groundwater beneath the area affected by the What is the aballa

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	d the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

### Remediation Plan

Please answer all the questions t	hat apply or are indicated. This information must be provided to	o the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	emonstrating the lateral and vertical extents of soil contaminatio	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertic	al extents of contamination been fully delineated	Yes
Was this release entirely c	contained within a lined containment area	No
Soil Contamination Sampling	g: (Provide the highest observable value for each, in m	illigrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	5390
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11		0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 which includes the anticipated tin	NMAC unless the site characterization report includes complete	
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) t	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) t On what date will (or was)	NMAC unless the site characterization report includes complete melines for beginning and completing the remediation. ill the remediation commence the final sampling or liner inspection occur	ad efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 12/19/2019 01/13/2020
Per Subsection B of 19.15.29.11 which includes the anticipated tim On what estimated date w On what date will (or did) t On what date will (or was) What is the estimated surf	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence the final sampling or liner inspection occur the remediation complete(d)	ad efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA           12/19/2019           01/13/2020           01/14/2020
Per Subsection B of 19.15.29.11 which includes the anticipated tim On what estimated date w On what date will (or did) t On what date will (or was) What is the estimated surf What is the estimated volu	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence the final sampling or liner inspection occur the remediation complete(d) face area (in square feet) that will be reclaimed	ad efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA           12/19/2019           01/13/2020           01/14/2020           2270
Per Subsection B of 19.15.29.11 which includes the anticipated tim On what estimated date w On what date will (or did) t On what date will (or was) What is the estimated surf What is the estimated volu What is the estimated surf	NMAC unless the site characterization report includes complete melines for beginning and completing the remediation. ill the remediation commence the final sampling or liner inspection occur the remediation complete(d) face area (in square feet) that will be reclaimed ime (in cubic yards) that will be reclaimed	ad efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA           12/19/2019           01/13/2020           01/14/2020           2270           2270

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 321083

QUESTIONS (continued)	
Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	321083
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Roy Batty Fed Com CTB Battery [fAPP2203859468]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Νο
(In Situ) Soil Vapor Extraction	Νο
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Νο
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efi which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
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.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/07/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 321083

QUESTIONS (continued)	
Operator: COG OPERATING LLC	OGRID: 229137
600 W Illinois Ave Midland, TX 79701	Action Number: 321083
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	

### Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	No	

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

QUESTIONS, Page 6

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Action 321083

QUESTIONS (continued)	
Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	321083
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	321091
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/19/2019
What was the (estimated) number of samples that were to be gathered	13
What was the sampling surface area in square feet	200

**Remediation Closure Request** 

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	6400	
What was the total volume (cubic yards) remediated	480	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	0	
What was the total volume (in cubic yards) reclaimed	0	
Summarize any additional remediation activities not included by answers (above)	Spill off pad, dig and haul remediation, will reclaim/revegetate during P/A.	
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 (in .pdf format) 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.		
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed no notification to the OCD when reclamation and re-vegetation are complete.	

	Name: Brittany Esparza
I hereby agree and sign off to the above statement	Title: Environmental Technician
Thereby agree and sign on to the above statement	Email: brittany.Esparza@ConocoPhillips.com
	Date: 03/07/2024

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

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QUESTIONS, Page 7

Action 321083

**QUESTIONS** (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	321083
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	2270	
What was the total volume of replacement material (in cubic yards) for this site	480	
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.		
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	05/01/2024	
Summarize any additional reclamation activities not included by answers (above)	N/A reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form	
of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevan NMAC.	t field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.		
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/07/2024	

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

QUESTIONS, Page 8

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Action 321083

QUESTIONS (continued)	
Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	321083
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

Revegetation Report

Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied

Requesting a restoration complete approval with this submission

No Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

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Action 321083

CONDITIONS

DGRID:
229137
ction Number:
321083
ction Type:
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### CONDITIONS

Created By		Condition Date
scwells	None	4/17/2024