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December 10, 2018

Christina Hernandez New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1625 French Drive Hobbs, NM 88240

Ryan Mann Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso Street, Suite 117 Hobbs, NM 88240

Re: Remediation Summary and Closure Report White Falcon 16 State #023H API No.30-025-43699 GPS: Latitude 32.13689 Longitude -103.377934 UL "D", Sec. 16, T25S, R35E Lea County, NM NMOCD Ref. No. 1RP-4881

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this Remediation Summary and Closure Report for the Release Site known as the **White Falcon 16 State #023H.** Details of the release are summarized below:

		RELEAS	E DETAILS		
Tupo of Polosco	Broducod Mator		Volume of Release:	53 bbls	
Type of Release.			Volume Recovered:	15 bbls	
Source of Release:	Flowline		Date of Release: 11/18/17	Date of Discovery:	11/18/17
Was Immediate Notice Give	n? Yes		If, YES, to Whom?	NMOCD District I/NN	/ISLO
Was a Watercourse Reached	!? No		If YES, Volume Impacting t	he Watercourse:	NA
Surface Owner:	State		Mineral Owner:	State	

Describe Cause of Problem and Remedial Action Taken:

A third party contractor struck a buried poly flowline coming from the White Falcon 16 State #00I H Battery while digging. The line was repaired and put back in service.

Topographical and Aerial Maps are provided as Attachments #1 and #2. General Site Photographs are provided as Attachment #8. A Copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) is provided as Attachment #9.

REGULATORY FRAMEWORK

Surface impacts from unauthorized releases of crude oil, gases, produced water, condensate or other oil field waste which occur during normal oilfield operations are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment, remediation and closure procedures based on the type and volume of the release and site characterizations, including proximity to sensitive receptors and depth to groundwater, which may be used to determine a Total Ranking Score as follows:

Site Characteristics	
Approximate Depth to Groundwater	~125 ft - 150 ft
Within 300 ft. of any continuously flowing or significant watercourse?	Yes 🗸 No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	🗌 Yes 🗹 No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	🗌 Yes 🗹 No
Within 500 ft. of a spring or private, domestic fresh water well?	Yes 🗸 No
Within 1,000 ft. of any fresh water well?	Yes 🗸 No
Within the incorporated municipal boundaries or within a municipal well field?	Yes 🗸 No
Within 300 ft. of a wetland?	Yes 🗸 No
Within the area overlying a subsurface mine?	🗌 Yes 🗹 No
Within an unstable area?	Yes 🗸 No
Within a 100-year floodplain?	🗌 Yes 🗹 No

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within a 1 Mile radius of the Release Site and identify any registered water wells within a 1/2 Mile of the Release Site. If none were identified, the approximate depth to groundwater was extrapolated from a Depth to Groundwater Map utilized by the NMOCD. Depth to groundwater information is provided as Attachment #4.

Based on the approximate depth to groundwater and site characteristics, the NMOCD Closure Criteria are as follows:

Closure	Table I Closure Criteria for Soils Impacted by a Release										
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**								
	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg								
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg								
≥ 100 ft	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg								
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg								
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg								

INITIAL SITE ASSESSMENT

On June 25, 2018, an initial site investigation was conducted at the Site. During the initial site investigation, seven (7) soil samples were collected from three (3) locations (SP-1 through SP-3) within the release margins in an effort to determine the vertical extent of soil impact. In addition, one (1) soil sample was collected from the inferred southern edge of the release margins in an effort to determine the horizontal extent of soil impact. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of chloride concentrations. Laboratory analytical results indicated soil was affected above the NMOCD Closure Criteria at sample point SP-3 at eight (8) ft. bgs. On August 17, 2018, a geoprobe was utlized to collect three (3) additional soil samples from the area characterized by sample point SP-3. In addition, three (3) soil samples were collected from the remaining inferred edges of the release margins. The collected soil samples were submitted to an NMOCD-approved laboratory analytical results from soil samples were submitted to an NMOCD-approved soil samples were submitted to an NMOCD-approved laboratory for analysis of chloride soil samples from the area characterized by sample point SP-3. In addition, three (3) soil samples were collected from the remaining inferred edges of the release margins. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of chloride. A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided below:

		Con	centrati	ons of B	ГЕХ, ТРН	and/or	Chloride	in Soil			
				SW 846	SW 846 8021B SW 846 8015M Ext.						E 300
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₅ (mg/kg)	TPH C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
SP-1 @1'	6/25/2018	1'	In-Situ	-	-	-	-	-	-	-	836
SP-1 @4'	6/25/2018	4'	In-Situ	-	-	-	-	-	-	-	3,060
SP-1 @8'	6/25/2018	8'	In-Situ	-	-	-	-	-	-	-	193
SP-2 @1'	6/25/2018	1'	In-Situ	-	-	-	-	-	-	-	65.3
SP-3 @ 1'	6/25/2018	1'	In-Situ	-	-	-	-	-	-	-	1,550
SP-3 @4'	6/25/2018	4'	In-Situ	-	-	-	-	-	-	-	1,580
SP-3 @8'	6/25/2018	8'	In-Situ	-	-	-	-	-	-	-	11,400
S @ 6"	6/25/2018	6"	In-Situ	-	-	-	-	-	-	-	251
SB-1 @ 8'	8/17/2018	8'	In-Situ	-	-	-	-	-	-	-	6,540
SB-1 @ 10'	8/17/2018	10'	In-Situ	-	-	-	-	-	-	-	314
SB-1 @ 12'	8/17/2018	12'	In-Situ	-	-	-	-	-	-	-	7.14
N @ 6"	8/17/2018	6"	In-Situ	-	-	-	-	-	-	-	5.17
W @ 6"	8/17/2018	6"	In-Situ	-	-	-	-	-	-	-	25.1
E @ 6'	8/17/2018	6"	In-Situ	-	-	-	-	-	-	-	<4.95
CI	Closure Criteria				50	-	-	1,000	-	2,500	20,000

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #5. Laboratory analytical reports are provided as Attachment #6.

REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, COG proposed the following remediation activities designed to advance the Release Site toward an NMOCD approved closure:

•Utilizing mechanical equipment, excavate impacted soil within the release margins in the area characterized by sample points SP-1, SP-3 and SB-1 to a depth of approximately four (4) ft. bgs, or until laboratory analytical results from confirmation soil samples indicate concentrations of chloride are below the applicable NMOCD Closure Criteria.

•Excavate impacted soil within the release margins in the area characterized by sample point SP-2 to a depth of approximately one (1) ft. bgs, or until laboratory analytical results from confirmation soil samples indicated concentrations of chloride are below the applicable NMOCD Closure Criteria.

• Excavated soil will be temporarily stockpiled on-site, atop a poly liner, pending transportation under manifest to a NMOCD-approved disposal facility.

• Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria) excavated areas will be backfilled with locally sourced, non-impacted "like" material, at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls **in each cardinal direction**, representing no more than **50 linear ft**. A minimum of one (1) representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **600 square feet**. Additional "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

SUMMARY OF FIELD ACTIVITIES

Impacted soil within the release margins was excavated and temporarily stockpiled on-site, atop an impermeable liner, pending final disposition. The floor and sidewalls of the excavation were advanced in accordance with the approved workplan. Upon excavating impacted soil from within the release margins, fifteen (15) confirmation soil samples were collected from the floor and sidewalls of the excavated area representing no more than 600 SqFt. The collected soil samples were submitted to the laboratory for analysis of chloride concentrations. Upon receiving laboratory analytical results exhibiting concentrations below NMOCD RRAL, the impacted soil was transported to a NMOCD-approved facility and the excavated area was backfilled with locally sourced, non-impacted "like" material. Additionally, as per the approved workplan stipulation, one (1) soil bore was collected in the area represented by sample point SP-3 and submitted to the laboratory for analysis of chloride concentrations, in an effort to determine the extent of vertical impact. TRC revistied the Site on 10/24/2018 and collected additional surface samples to determine concentrations of BTEX and TPH. Figure 3 depicts the locations of confirmation soil samples. A table summarizing laboratory analytical results from confirmation soil samples is provided below:

		Cor	ncentrati	ons of B	ГЕХ, ТРН	and/or	Chloride	in Soil			
				SW 846	5 8021B		SW	846 8015M E	xt.		E 300
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	EXT DRO C ₂₈ -C ₃₅ (mg/kg)	TPH C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
SP-1B @ Surface	10/24/2018	Surf.	Excavated	<0.050	<0.300	<10.0	20.1	20.1	<10.0	20.1	-
SP-2B @ Surface	10/24/2018	Surf.	Excavated	<0.050	<0.300	<10.0	286	286	12.4	298.4	-
SP-3B @ Surface	10/24/2018	Surf.	Excavated	<0.050	<0.300	<10.0	112	112	<10.0	112	-
FL 1	11/13/2018	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FL 2	11/13/2018	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FL 3	11/13/2018	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FL 4	11/13/2018	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FL 5	11/13/2018	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP-3 NSW	11/13/2018	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SP-3 SSW	11/13/2018	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SP-3 ESW	11/13/2018	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-3 WSW	11/13/2018	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SP-2 NSW	11/13/2018	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SP-2 SSW	11/13/2018	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SP-1 NSW	11/13/2018	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SP-1 SSW	11/13/2018	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SP-1 ESW	11/13/2018	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SP-1 WSW	11/13/2018	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
Closure Criteria				10	50	-	-	1,000	-	2,500	20,000

A Photographic Log is provided as Attachment #8

SITE CLOSURE REQUEST

Based on laboratory analytical results from confirmation soil samples collected during the remediation activities, impacted soil within the release margins was determined below the Table I of 19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release. TRC on behalf of COG, respectfully requests the NMOCD and New Mexico State Land Office (NMSLO) grant closure approval for the White Falcon 16 State #023H, which occured on November 17, 2017.

RESTORATION, RECLAMATION AND RE-VEGETATION

Areas affected by the Release and associated remediation activities will be substantially restored to the condition which existed prior to the Release to the maximum extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with "Homesteaders" seed mixture during the first favorable growing season, following closure of the site, in accordance with the applicable regulatory agency.

If you have any questions, or if additional information is required, please feel free to contact Becky Haskell or either of the undersigned by phone or email.

Respectfully,

Zachary Conder		Curt Stanley
Operations Mana	ger	Senior Project Manager
zconder@trcsolut	tions.com	cdstanley@trcsolutions.com
(432) 234-5084		(432) 559-3296
Attachments:	Attachment #1- Attachment #2-	Figure 1 - Topographical Map Figure 2 - Aerial Map

Attachment #2-	Figure 2 - Aerial Map
Attachment #3-	Figure 3 - Site & Confirmation Sample Location Map
Attachment #4-	Depth to Groundwater Information
Attachment #5-	Field Data
Attachment #6-	Laboratory Analytical Reports
Attachment #7-	Soil Profile
Attachment #8-	General Site Photographs
Attachment #9-	Release Notification and Corrective Action (FORM C-141)











Released to Imaging: 11/9/2022 12:05:09 PM

Site Name: While Falcon 14 State #02311

Date: 8/17/2018

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## **Field Observation Log**

ID	Cl-	Odor/PID				
5B-106"	72,000	Wone				
5B-108	72,600	None				
5B-1010'	260	None				
48-1P12'	2120	None				
GPS:						

ID		Cl-	Odor/PID			
NPG	97	1120	Now			
	:					
GPS:						

ID	Cl-	Odor/PID
WP6-	L170	Nove
GPS:		

ID		Cl-	Odor/PID
EP 6'	¢	2170	None
		-	
GPS:			

ID	CI-	Odor/PID
:		
		1
GPS:		1

ID	Cl-	Odor/PID
		1

]	ID	Cl-	Odor/PID
			1
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GPS:

U	U-	Udor/PID
Ee 6"	2170	None
	-	
GPS:		

ID	Cl-	Odor/PID
GPS:		

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ID	Cl-	Odor/PID
GPS:	-	

Site N	ame: _	White Fab	<u>n 16 Stute</u> Fiel	<u>#02</u> 34 d Observ	ation Log	Date:		-/3 - /8	
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		575-10		54 0 - 0					
						E	N		
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		5P3-59W		SP2-5	W	58	1- 550		
	1								10
ID	Cl-	Odor/PID	ID	Cl-	Odor/Pll	D	ID	CI-	Odor/PID
FL1	205	None	Allanten	Bare	udsm.	_			-
FLZ FL3	348	None	SP1-55W	379	None	-			
FL 4	262	None	S/I-ESW	212	None				
GPS:			GPS:				GPS:		
	CI-	Odor/PID		CI-	Odor/PI			CL	Oder/DID
FL5	141	None	SPI-WSW	259	None	-		CI	GUOI/PID
5\$3-N5W	139	None	-						
583-550	171	None				_	-		
GPS:		100010	GPS:			-	GPS:		
ID	CI-	Odor/PID	ID	CI-	Odor/PI	D	ID	Cl-	Odor/PID
5/3-454 7	182	None				_			
12-NSW 14	89	Made							
102-30 2		0000							
RECEIPT 1			GPS:				GPS:		

## Analytical Report 590553

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

White Falcon 16 State 023H

## 02-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098) Received by OCD: 11/9/2022 12:01:12 PM



02-JUL-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **590553** White Falcon 16 State 023H Project Address: Lea Co., NM

## Joel Lowry:

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) 590553. 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. 590553 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,

Julian Martinez Odessa Laboratory Director

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

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## Sample Cross Reference 590553



## TRC Solutions, Inc, Midland, TX

White Falcon 16 State 023H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @1'	S	06-25-18 15:00	1 ft	590553-001
SP-1 @4'	S	06-25-18 15:10	4 ft	590553-002
SP-1 @8'	S	06-25-18 15:20	8 ft	590553-003
SP-2 @1'	S	06-25-18 15:30	1 ft	590553-004
SP-3 @1'	S	06-25-18 15:40	1 ft	590553-005
SP-3 @4'	S	06-25-18 15:50	4 ft	590553-006
SP-3 @8'	S	06-25-18 16:00	8 ft	590553-007
SP @ 6"	S	06-25-18 16:10	6 ft	590553-008



## CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: White Falcon 16 State 023H

Project ID: Work Order Number(s): 590553

BORATORIES

Report Date:02-JUL-18Date Received:06/27/2018

## Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

## Analytical non conformances and comments:

Batch: LBA-3055169 Inorganic Anions by EPA 300

Lab Sample ID 590553-001 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: 590553-001, -002, -003, -004, -005, -006, -007, -008.

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



Project Id: Contact: Joel Lowry

Project Location: Lea Co., NM

## Certificate of Analysis Summary 590553

TRC Solutions, Inc, Midland, TX Project Name: White Falcon 16 State 023H



Date Received in Lab:Wed Jun-27-18 10:15 amReport Date:02-JUL-18Project Manager:Kelsey Brooks

	Lab Id:	590553-0	01	590553-0	002	590553-0	003	590553-0	004	590553-0	)05	590553-0	006
Analysis Requested	Field Id:	SP-1 @	1'	SP-1 @4'		SP-1 @8'		SP-2 @1'		SP-3 @	1'	SP-3 @	4'
Analysis Requested	Depth:	1- ft		4- ft		8- ft		1- ft		1- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Jun-25-18 15:00		Jun-25-18 15:10		Jun-25-18 15:20		Jun-25-18 15:30		Jun-25-18 15:40		Jun-25-18	15:50
Chloride by EPA 300	Extracted:	Jun-29-18 1	0:30	Jun-29-18 10:30		Jun-29-18 1	0:30	Jun-29-18	0:30	Jun-29-18 1	10:30	Jun-29-18	10:30
	Analyzed:	Jun-29-18 1	Jun-29-18 13:13		13:29	Jun-29-18 1	3:34	Jun-29-18	3:40	Jun-29-18 1	13:45	Jun-29-18	14:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		836	4.99	3060	24.9	193	4.94	65.3	4.97	1550	24.8	1580	24.9

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

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

Julian Martinez Odessa Laboratory Director



Project Id:Contact:Joel LowryProject Location:Lea Co., NM

Certificate of Analysis Summary 590553

TRC Solutions, Inc, Midland, TX Project Name: White Falcon 16 State 023H



Date Received in Lab:Wed Jun-27-18 10:15 amReport Date:02-JUL-18Project Manager:Kelsey Brooks

	Lab Id:	590553-007		590553-0	008		
Analysis Requested	Field Id:	SP-3 @8'		SP @ 6	"		
marysis Requesieu	Depth:	8- ft		6- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Jun-25-18 16:0	Jun-25-18 16:00		6:10		
Chloride by EPA 300	Extracted:	Jun-29-18 10:3	Jun-29-18 10:30		0:30	1	
	Analyzed:	Jun-29-18 14:0	Jun-29-18 14:07		4:12		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		11400	99.4	251	4.92		

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Julian Martinez Odessa Laboratory Director

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## **Flagging Criteria**



Page 20 of 72

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

SMP Clier	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	atory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



## **BS / BSD Recoveries**



Page 21 of 72

## Project Name: White Falcon 16 State 023H

Work Order	·#: 590553							Pro	ject ID:			
Analyst:	SCM	<b>Date Prepared:</b> 06/29/2018					<b>Date Analyzed:</b> 06/29/2018					
Lab Batch ID	: 3055169 Sample: 76	<b>Sample:</b> 7657603-1-BKS <b>Batch #:</b> 1			Matrix: Solid							
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUI	ЭY	
Analy	Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		<4.99	250	250	100	250	246	98	2	90-110	20	

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



## Form 3 - MS / MSD Recoveries

## Project Name: White Falcon 16 State 023H



Work Order # :	590553						Project II	):				
Lab Batch ID:	3055169	QC- Sample ID:	590546	-003 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	06/29/2018	Date Prepared:	06/29/2	018	Ar	alyst: S	SCM					
<b>Reporting Units:</b>	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	IKE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	E]	Kesuit [F]	%K [G]	70	% <b>K</b>	%KPD	
Chloride		<4.92	246	247	100	246	243	99	2	90-110	20	
Lab Batch ID:	3055169	QC- Sample ID:	590553	-001 S	Ba	tch #:	1 Matri	<b>x:</b> Soil				
Date Analyzed:	06/29/2018	Date Prepared:	06/29/2	018	Ar	alyst: S	SCM					
<b>Reporting Units:</b>	mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	IKE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Kesult [F]	%R [G]	<b>%</b>	%R	%RPD	
Chloride		836	250	1020	74	250	1020	74	0	90-110	20	X

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

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

Page 9 of 12

## San Antonio, Texas (210-509-3334) CHAIN OF CUSTODY Page 1 Of 1

				WWW	v.xenco	.com	1													Xenc	40 C 0	*		거	2050	<b>ر</b> ً
																Ana	ytical	Info	mati	ă						Matrix Codes
Client / Reporting Information			Project	Informa	ation																					
Company Name / Branch: TRC Environmental Cornoration	5 9	oject Name/Nu /hite Falcon 1	mber: A State 023	Ē																		<u></u>	—			W = Water
Company Address:	P	oject Location:	0 01010 010	-																						GW =Ground Water
2057 Commerce Drive Midland TX 79703		a Co, NM																								DW = Drinking Water
Email: Phone No:	5	voice To:																								r - riouuct SW = Surface water
ilowry@trcsolutions.com 432-466-4450	0	DG Operating C	)/O Becky Has	skell													·									SL = Sludge
Project Contact: Joel Lowry	51	voice	-											xt												WI = Wipe
Samplers's Name Joel Lowry														ΛE	300	B										U = ∪II WW= Waste Water
		Collection				*								5 N	E 3	211										A = Air
		CONSCREDE						0110	- eser	100	-	- "		015	de E	802										
No. Field ID / Point of Collection	Sample				# 약	 	etate	03	 				NE	РН 8	nloric	TEX										
	nden	Uate	Time N	hatrix b	ottles	H	Ad	H					-	T	C	F	╞				Г	┢	┢	L	Ę	ield Comments
1 SP-1 @ 1'	4	6/25/2018	3:00	s		_									×											
2 SP-1 @ 4'	4.	6/25/2018	3:10	ø	د 										×											
3 SP-1 @ 8'	œ	6/25/2018	3:20	s	-										×											
4 SP-2 @ 1'	4	6/25/2018	3:30	s					-				_		<u>×</u>											
5 SP-3 @ 1'	4.	5/25/2018	3:40	s				_							×								-			
6 SP-3 @ 4'	4.	6/25/2018	3:50	s	1								_		<u>×</u>		_					-+				
7 SP-3 @ 8'	8	6/25/2018	4:00	s	1								_		×											
8 S@6"	6 <u>,</u>	6/25/2018	4:10	s	-										×											
9																										
10																										
	-			Dat	a Delive	rable in	format	ōn											Votes:							
Same Day TAT 5 Day TAT			Level	ll Std Q	õ			Ū	eve	N (F	uli D	ita P	kg /ra	iw dat	5		<u></u>	VIMO	@trc	soluti	ons.	om				bcooper@trcsolutions.com
Next Day EMERGENCY			Level	III Std Q	)C+ For	Suu	_		TRRP	Leve	ž						-	hask		onch	10.CO	B				
2 Day EMERGENCY X Contract TAT			Level	3 (CLP	Forms)				UST /	RG	11						IN	cond	ler@	rcso	ution	s.cor				
3 Day EMERGENCY		_	TRRP	Checkli	İst												10	neel	2@cc	oncho	.con					
TAT Starts Day received by Lab, if received by 5:0	0 pm																_	mo-m	U/X	PS: T	rack	ng #		2	× U/V	WNULTIC
Relinguished by Sampler: \ \	Date Time:	DCUMENTED B	Becow EACH	TIME SA	MPLES	CHAN	SE POS	SESS	ION, IN	ICL U	DING		R	DELIVE	_ ₹							Ψ	N.			
TB - CHART	12/26/	18 J. A		WON :	6	7		N 7	- Indi		<b>NPA</b>	9	5	7		11 <b>31</b>	o ne:	4.2	và.	Rgei 2		∭¥;	Ŵ,	$\gamma$	N/	(e/27/18/05
3 Relinquished by:	Date Time:		Recĕived B _j 3	2				<b>K</b> 4	ellaqu	lišhe	dBy				6	ate Ti	10: 10:		0	Rec	Hved	By:	(	1	m	
6 Relinquished by:	Date Time:		Received By	<del>ر</del>				0	ustod	y Se	2] #				reser			pplic	able			29	$\overline{1}$		Cooler Temp.	PS 0.0
<ul> <li>request values organisation or una valuation and rearrequisation or samples or solution any losses or expenses incrured by the Client if such losses are due to circumsta terms will be enforced unless previously negotiated under a fully executed client</li> </ul>	nces beyond the contract.	citase Gruer control of Xend	m cilem compa 30. A minimum	charge o	nco, its a of \$75 wil	l be app	and su plied to a	each pr	roject.	it ass Xenco	igns s iat	ility w	rd ten	ns and limited	condia to the c	ons or ost of :	ample	s. Anj	/ samp	be lia	ble or iceive	d by X	(enco	but n	tot analyzed will be i	not assume any responsibility tor invoiced at \$5 per sample. These
territa will be enforced diffeest breatonsis heighting ed under a funk executed citelit	CONTRACT.																									

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Dailas Texas (214-902-0300) Stafford, Texas (281-240-4200)

Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)



Received by OCD: 11/9/2022 12:01:12 PM



## **XENCO** Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Date/ Time Received: 06/27/2018 10:15:00 AM Work Order #: 590553 Comments Sample Receipt Checklist .2 #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? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? No

#18 Water VOC samples have zero headspace?

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

Analyst:

PH Device/Lot#:

Date: 06/27/2018

N/A

Checklist completed by: Market Katie Lowe Checklist reviewed by: Market Kelsey Brooks

Date: 06/29/2018

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

## Analytical Report 596453

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

White Falcon 16 #23H

## 27-AUG-18

Collected By: Client





## 1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



27-AUG-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **596453 White Falcon 16 #23H** Project Address: Lea Co.,NM

## Joel Lowry:

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) 596453. 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. 596453 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,

Huns hoah

Kelsey Brooks Project Manager

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

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





## Sample Cross Reference 596453



## TRC Solutions, Inc, Midland, TX

White Falcon 16 #23H

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	08-17-18 12:00	8 ft	596453-001
S	08-17-18 12:15	10 ft	596453-002
S	08-17-18 12:30	12 ft	596453-003
S	08-17-18 12:45	6 In	596453-004
S	08-17-18 13:00	6 In	596453-005
S	08-17-18 13:15	6 In	596453-006
	Matrix S S S S S S S	MatrixDate CollectedS08-17-18 12:00S08-17-18 12:15S08-17-18 12:30S08-17-18 12:45S08-17-18 13:00S08-17-18 13:15	MatrixDate CollectedSample DepthS08-17-18 12:008 ftS08-17-18 12:1510 ftS08-17-18 12:3012 ftS08-17-18 12:456 InS08-17-18 13:006 InS08-17-18 13:156 In



Page 29 of 72

Client Name: TRC Solutions, Inc Project Name: White Falcon 16 #23H

Project ID: Work Order Number(s): 596453 Report Date: 27-AUG-18 Date Received: 08/21/2018

## Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Project Id: Contact:

Contact:Joel LowryProject Location:Lea Co.,NM

## Certificate of Analysis Summary 596453

TRC Solutions, Inc, Midland, TX Project Name: White Falcon 16 #23H



Date Received in Lab:Tue Aug-21-18 10:35 amReport Date:27-AUG-18Project Manager:Kelsey Brooks

	Lab Id:	596453-0	01	596453-0	02	596453-0	003	596453-0	04	596453-0	005	596453-0	)06
Analysis Requested	Field Id:	SB-1 @8	3'	SB-1 @ 1	10'	SB-1 @ 1	12'	N @ 6'	,	W @ 6	"	E @ 6	"
Analysis Requested	Depth:	8- ft		10- ft		12- ft		6- In		6- In		6- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Aug-17-18 1	2:00	Aug-17-18	12:15	Aug-17-18	12:30	Aug-17-18	12:45	Aug-17-18	13:00	Aug-17-18	13:15
Chloride by EPA 300	Extracted:	Aug-21-18 1	7:30	Aug-21-18	15:00	Aug-21-18	15:00	Aug-21-18	15:00	Aug-22-18	09:00	Aug-22-18	09:00
	Analyzed:	Aug-21-18 2	23:13	Aug-21-18 2	20:02	Aug-21-18 2	20:07	Aug-21-18 2	20:13	Aug-22-18	10:38	Aug-22-18	12:05
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6540	49.9	314	4.99	7.14	4.97	5.17	4.95	25.1	4.95	<4.95	4.95

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

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Kms Boah

Kelsey Brooks Project Manager



## **Flagging Criteria**



Page 31 of 72

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

SMP Clie	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	atory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



## **BS / BSD Recoveries**



Page 32 of 72

## **Project Name:** White Falcon 16 #23H

Work Order	r #: 596453							Pro	ject ID:			
Analyst:	SCM	D	ate Prepar	ed: 08/21/20	18			Date A	nalyzed: (	08/21/2018		
Lab Batch ID	<b>Sample:</b> 766084	5-1-BKS	Batcl	<b>h #:</b> 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE / 2	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
Analy	Chloride by EPA 300 ytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		<5.00	250	274	110	250	273	109	0	90-110	20	
Analyst:	SCM	D	ate Prepar	ed: 08/21/20	18			Date A	nalyzed: (	08/21/2018		
Lab Batch ID	<b>Sample:</b> 766085	7-1-BKS	Batcl	<b>h #:</b> 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE / 2	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
Analy	Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	,	<5.00	250	250	100	250	249	100	0	90-110	20	
Analyst:	SCM	D	ate Prepar	ed: 08/22/20	18			Date A	nalvzed: (	)8/22/2018		
Lab Batch ID	<b>Sample:</b> 766089	2-1-BKS	Batcl	<b>h #:</b> 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE / 2	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
Analy	Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	<i>y</i> •••>											

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



## Form 3 - MS / MSD Recoveries

## **Project Name: White Falcon 16 #23H**



.

<b>Work Order # :</b> 596453						Project II	):				
Lab Batch ID: 3060815	QC- Sample ID:	596446	-001 S	Ba	tch #:	1 Matri	<b>x:</b> Soil				
<b>Date Analyzed:</b> 08/21/2018	Date Prepared:	08/21/2	018	An	alyst: S	SCM					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Chloride by EPA 300	Parent Sample Besult	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]	[C]	/0K [D]	[E]	Kesun [F]	[G]	/0	701	70KI D	
Chloride	943	248	1140	79	248	1140	79	0	90-110	20	X
Lab Batch ID: 3060815	QC- Sample ID:	596446	-005 S	Ba	tch #:	1 Matri	<b>k:</b> Soil				
<b>Date Analyzed:</b> 08/21/2018	Date Prepared:	08/21/2	018	An	alyst: S	SCM					
Reporting Units: mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	123	248	368	99	248	370	100	1	90-110	20	
Lab Batch ID: 3060822	QC- Sample ID:	596446	-008 S	Ba	tch #:	1 Matri	<b>x:</b> Soil				
<b>Date Analyzed:</b> 08/21/2018	Date Prepared:	08/21/2	018	An	alyst: S	SCM					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%к [D]	Added [E]	Kesult [F]	%к [G]	<b>%</b>	%K	%KPD	
Chloride	351	250	584	93	250	586	94	0	90-110	20	

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

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

Page 8 of 12



## Form 3 - MS / MSD Recoveries

## **Project Name: White Falcon 16 #23H**



.

Work Order # :	596453						Pr	oject ID	:				
Lab Batch ID:	3060822	QC- Sample ID:	596449	-002 S	Ba	tch #:	1	Matrix	: Soil				
Date Analyzed:	08/21/2018	Date Prepared:	08/21/2	018	An	alyst: S	SCM						
<b>Reporting Units:</b>	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	IKE DU	PLICAT	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Posult	Spike	Spiked Sample Result	Spiked Sample	Spike	Dup Spiked	licate Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Kesu	ut[F]	%K [G]	<b>%</b> 0	%K	%RPD	
Chloride		74.4	248	325	101	248	3	24	101	0	90-110	20	
Lab Batch ID:	3060861	QC- Sample ID:	596453	-005 S	Ba	tch #:	1	Matrix	: Soil				
Date Analyzed:	08/22/2018	Date Prepared:	08/22/2	018	An	alyst: S	SCM						
<b>Reporting Units:</b>	mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	IKE DU	PLICAT	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Dup Spiked	licate Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Resu	ilt [F]	%R [G]	%	%R	%RPD	
Chloride		25.1	248	288	106	248	2	86	105	1	90-110	20	
Lab Batch ID:	3060861	QC- Sample ID:	596453	-006 S	Ba	tch #:	1	Matrix	: Soil				
Date Analyzed:	08/22/2018	Date Prepared:	08/22/2	018	An	alyst: S	SCM						
<b>Reporting Units:</b>	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	IKE DU	PLICAT	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Posult	Spike	Spiked Sample Result	Spiked Sample	Spike	Dup Spiked	licate Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%к [D]	Added [E]	Kesu	ուլեյ	%к [G]	70	~0K	%KPD	

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.

Page 9 of 12

## Setting the Standard since 1990 Stafford, Texas (281-240-4200)

# CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Received by OCD:	11/9/2022	12:01:12	PM	
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Dailas Texas (214-902-0300)		Midland, Tex	(as (432-704	-5251) ww	w.xenco	o.com												Xen	to Job	*		X	P	5	Ą	1	1			
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Client / Reporting Information			Projec	tinform	lation										$\neg$															
Company Name / Branch: TRC Environmental Corporation		Project Name/N White Falcon	lumber: 16 #23H																						·	"" V = V	Vater		-	
Company Address:		Project Locatio	n:															*****							<b>.</b> .	GW ⊒	Groun	d Wat	ër	
2057 Commerce Drive Midland, TX 79703		Lea Co, NM																							<b>.</b> -		Drink	ing W	ater	
Email: Pho ilowny@trcsolutions.com 432	ne No: -466-4450	Invoice To: COG Operating	C/O Becky Ha	skell																						SL = S	Surfa	ce wa	ter	
Project Contact: Joel Lowry		Invoice:																							_	N ≦ 5	Nipe	0000	T A L A	
Samplers's Name Becky Griffin												E		3											-	0=0	Ĭ		i	
Samplers's Name Becky Grimin		 Collection			maanaan		lumbe	of pro	Serve	d bott	8			021B											_	A = A	Vaste	e Wat	ř	
No. Field ID / Point of Collection	Sample				*	)H/7n	late	04	н	SO4	ж			FX 8																
	Depth	Date	Time	Matrix	bottles	HCI	Ace	HNG H25	NaC	Nał	ME			B	-	┢──		+	╉	┢──	┢─	┢──			Field	1 Com	ments	ľ		L
1 SB-1 @ 8'	8ft	8/17/2018	12:00	s	<u> </u>		<u> </u>	. :						<u> </u>																
2 SB-1 @ 10'	10ft	8/17/2018	12:15	s	-								~																	
3 SB-1 @ 12'	12ft	8/17/2018	12:30	s	-								~	<u> </u>																
4 N@6"	6in	8/17/2018	12:45	s	1									<u> </u>																
5 W@6"	6in	8/17/2018	1:00	s									~	<u> </u>																
6 E@6"	- 6in	8/17/2018	1:15	s									~	<u> </u>																
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Notce: Notce: Signature of this document and relinquishment of any losses or expenses incurred by the Client if such loses are do terms will be enforced unless previously neootiated under a fully.	<ul> <li>samples constitutes a valid ue to circumstances beyon executed client contract</li> </ul>	t purchase order fr the control of Xe	om client comp nco. A minimun	any to Xo 1 charge	enco, its of \$75 wi	affiliates II be app	and sut	bach pro	ject. Xe	assigns Inco's li	ability v	vill be li	nited to	ondition the co	ns of se st of sa	mples.	(enco v Any sa	rill be li mples	iable o receive	nly for id by X	thế co (enco	st of s but not	amples analyz	ed will	hall not be invo	assum piced at	t\$5 per	esponsi	bility for . These	
terms will be enforced unless previously negotiated under a fully	executed client contract.																													



Final 1.000
Received by OCD: 11/9/2022 12:01:12 PM





Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 08/21/2018 10:35:00 AM Temperature Measuring device used : R8 Work Order #: 596453 Comments Sample Receipt Checklist .3 #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? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

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

Analyst:

PH Device/Lot#:

Date: 08/21/2018

N/A

N/A

Checklist completed by: Bianna Teel Checklist reviewed by: Markoath Kelsey Brooks

Date: 08/21/2018



October 25, 2018

REBECCA HASKELL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: WHITE FALCON 16 #023H

Enclosed are the results of analyses for samples received by the laboratory on 10/24/18 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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



COG OPERATING REBECCA HASKELL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/24/2018	Sampling Date:	10/24/2018
Reported:	10/25/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16 #023H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: SP - 1B @ SURFACE (H803056-01)

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	10/25/2018	ND	2.05	102	2.00	0.757	
Toluene*	<0.050	0.050	10/25/2018	ND	1.95	97.5	2.00	0.0918	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.94	97.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.84	97.3	6.00	0.672	
Total BTEX	<0.300	0.300	10/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2 %	69.8-142							
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	10/25/2018	ND	194	96.9	200	1.34	
DRO >C10-C28*	20.1	10.0	10/25/2018	ND	207	103	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	10/25/2018	ND					
Surrogate: 1-Chlorooctane	84.4 %	% 41-142							
Surrogate: 1-Chlorooctadecane	82.9 %	37.6-147							

### **Cardinal Laboratories**

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING **REBECCA HASKELL** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE Received: 10/24/2018 Sampling Date: 10/24/2018 Reported: 10/25/2018 Sampling Type: Soil Project Name: WHITE FALCON 16 #023H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker Project Location: NOT GIVEN

### Sample ID: SP - 2B @ SURFACE (H803056-02)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	2.05	102	2.00	0.757	
Toluene*	<0.050	0.050	10/25/2018	ND	1.95	97.5	2.00	0.0918	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.94	97.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.84	97.3	6.00	0.672	
Total BTEX	<0.300	0.300	10/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.7 9	69.8-142	?						
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	10/25/2018	ND	194	96.9	200	1.34	
DRO >C10-C28*	286	10.0	10/25/2018	ND	207	103	200	2.01	
EXT DRO >C28-C36	12.4	10.0	10/25/2018	ND					
Surrogate: 1-Chlorooctane	87.6 9	6 41-142							
Surrogate: 1-Chlorooctadecane	99.5 %	37.6-147	7						

### **Cardinal Laboratories**

*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING **REBECCA HASKELL** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE Received: 10/24/2018 Sampling Date: 10/24/2018 Reported: 10/25/2018 Sampling Type: Soil Project Name: WHITE FALCON 16 #023H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker Project Location: NOT GIVEN

### Sample ID: SP - 3B @ SURFACE (H803056-03)

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	10/25/2018	ND	2.05	102	2.00	0.757	
Toluene*	<0.050	0.050	10/25/2018	ND	1.95	97.5	2.00	0.0918	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.94	97.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.84	97.3	6.00	0.672	
Total BTEX	<0.300	0.300	10/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	69.8-14	2						
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	10/25/2018	ND	194	96.9	200	1.34	
DRO >C10-C28*	112	10.0	10/25/2018	ND	207	103	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	10/25/2018	ND					
Surrogate: 1-Chlorooctane	92.8	% 41-142							
Surrogate: 1-Chlorooctadecane	92.0	37.6-14	7						

### **Cardinal Laboratories**

*=Accredited Analyte

Celecz 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



Sampler - UPS - Bus - Other: $0.8^{\circ}$ $tfor for the condition of the con$	Relinguished By: Date: Received By: CULLUT COULTY 2 CONDEL BCOOPEL Time: Time: BRAZIEL	Fax Result: E	analyses. All dams including those for negligence and any other cause whatsoever shall be deemed waived unknown working and exervise diverselved by Cardinal within 3 does were an exervise. In no event shall Cardinal be liable for incidental or consequential damages, including without all incident to the period be service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profis incurred by client, its substaintes, affiliates or successors arising out of or related to the enformance services. Frequences of whether such daim is based upon any of the above stated reasons or otherwise. In the enformance services because the conserved by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. In the conserved services because the conserved by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. In the conserved services because the conserved by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise.			3 SP-3B @ Sur & IX X V 1:10 X	259-26 @ Sur 61 K K 6 1:05 K 1	1 SP-18@ SUN 6 1 X 10-24-18 1:00 X	(G)RAI # CON GROU WASTI SOIL OIL SLUDC OTHEI ACID/E ICE / C OTHEI TIME	Sample I.D. B OR (C)OMF TAINERS NDWATER EWATER BASE: COOL R:	FOR LAB USE ONLY	Sampler Name: 1Cy/c Schwaidt Fax #:	Project Location: Phone #:	Project Name: While Falcon 16 # 02.3H State: Zip:	Project #: Project Owner: City:	Phone #: 432-466-4450 Fax #: Address:	city: Midland State: TX Zip: 79705 Attn:	Address: 10 Desta Drive Suite 150E Company: COG	Project Manager: Joel Lowry P.O. #:	Company Name: TRC Solutions	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
ELL@ CONCHO, CON	FINE TRE SOLUTIONS, COM		le ☐ Yes ☐ No   Addd'l Phone #:				8													ANALYSIS REQUEST	

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aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6



November 16, 2018

ZACH CONDER TRC 10 DESTA DR. SUITE 150 E MIDLAND, TX 79705

**RE: WHITE FALCON 16** 

Enclosed are the results of analyses for samples received by the laboratory on 11/14/18 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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



TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: FL 1 (H803305-01)

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	11/15/2018	ND	2.34	117	2.00	9.59	
Toluene*	<0.050	0.050	11/15/2018	ND	2.29	114	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.20	110	2.00	10.9	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.84	114	6.00	10.5	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	160	16.0	11/15/2018	ND	416	104	400	12.2	
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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	108 9	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	37.6-14	7						

### Cardinal Laboratories

### *=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: FL 2 (H803305-02)

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	11/15/2018	ND	2.34	117	2.00	9.59	
Toluene*	<0.050	0.050	11/15/2018	ND	2.29	114	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.20	110	2.00	10.9	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.84	114	6.00	10.5	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 % 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	256	16.0	11/15/2018	ND	416	104	400	12.2	
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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	105	% 41-142							
Surrogate: 1-Chlorooctadecane	102	37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TRC
ZACH CONDER
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: FL 3 (H803305-03)

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	11/15/2018	ND	2.34	117	2.00	9.59	
Toluene*	<0.050	0.050	11/15/2018	ND	2.29	114	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.20	110	2.00	10.9	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.84	114	6.00	10.5	
Total BTEX	<0.300	0.300	11/15/2018	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	256	16.0	11/15/2018	ND	416	104	400	12.2	
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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	106	% 41-142							
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: FL 4 (H803305-04)

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	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	128	16.0	11/15/2018	ND	416	104	400	12.2	
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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	107 9	% 41-142							
Surrogate: 1-Chlorooctadecane	103 9	37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: FL 5 (H803305-05)

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	11/15/2018	ND	416	104	400	12.2	
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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	110 9	% 41-142							
Surrogate: 1-Chlorooctadecane	104	37.6-14	7						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	TRC		
	ZACH CONDER		
	10 DESTA DR. SUITE 150 E		
	MIDLAND TX, 79705		
	Fax To:		
11/14/2018		Sampling Date:	
		a 11 <b>-</b>	

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: SP 3 - NSW (H803305-06)

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	64.0	16.0	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142							
Surrogate: 1-Chlorooctadecane	99.2	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	TRC	
	ZACH CONDER	
	10 DESTA DR. SUITE 150 E	
	MIDLAND TX, 79705	
	Fax To:	
11/14/2018		Sampling Date:

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: SP 3 - SSW (H803305-07)

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 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	336	16.0	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	106 %	6 41-142							
Surrogate: 1-Chlorooctadecane	101 %	6 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: SP 3 - ESW (H803305-08)

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	99.5 9	37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



NONE GIVEN

COG

Tamara Oldaker

Sample Received By:

### Analytical Results For:

		TRC		
		ZACH CONDER		
		10 DESTA DR. SUITE 150 E		
		MIDLAND TX, 79705		
		Fax To:		
Received:	11/14/2018		Sampling Date:	11/13/2018
Reported:	11/16/2018		Sampling Type:	Soil
Project Name:	WHITE FALCON 16		Sampling Condition:	Cool & Intact

### Sample ID: SP 3 - WSW (H803305-09)

Project Number:

Project Location:

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	224	16.0	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	106 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	101 9	37.6-14	7						

### **Cardinal Laboratories**

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To: 11/14/2018 Sampling Date:

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: SP 2 - NSW (H803305-10)

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 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	128	16.0	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	100 %	6 41-142							
Surrogate: 1-Chlorooctadecane	96.3 9	37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



WHITE FALCON 16

NONE GIVEN

COG

Sampling Condition:

Sample Received By:

11/13/2018

Cool & Intact

Tamara Oldaker

Soil

### Analytical Results For:

	TRC		
	ZACH CONDER		
	10 DESTA DR. SUITE 150 E		
	MIDLAND TX, 79705		
	Fax To:		
11/14/2018		Sampling Date:	
11/16/2018		Sampling Type:	

### Sample ID: SP 2 - SSW (H803305-11)

Received:

Reported:

Project Name:

Project Number:

Project Location:

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 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	304	16.0	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	107 %	6 41-142							
Surrogate: 1-Chlorooctadecane	100 %	6 37.6-14	7						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: SP 1 - NSW (H803305-12)

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	96.0	16.0	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142							
Surrogate: 1-Chlorooctadecane	96.0	% 37.6-14	7						

### **Cardinal Laboratories**

### *=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To: 11/(14/2018

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: SP 1 - SSW (H803305-13)

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	11/15/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/15/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	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	160	16.0	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	109 %	6 41-142							
Surrogate: 1-Chlorooctadecane	104 %	6 37.6-142	7						

### Cardinal Laboratories

### *=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



NONE GIVEN

COG

Tamara Oldaker

Sample Received By:

### Analytical Results For:

	TRC		
	ZACH CONDER		
	10 DESTA DR. SUITE 150 E		
	MIDLAND TX, 79705		
	Fax To:		
11/14/2018		Sampling Date:	11/13/2018
11/16/2018		Sampling Type:	Soil
WHITE FALCON 16		Sampling Condition:	Cool & Intact

### Sample ID: SP 1 - ESW (H803305-14)

Received:

Reported:

Project Name:

Project Number:

Project Location:

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	11/16/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/16/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/16/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/16/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/16/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	6 73.3-129	)						
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	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	109 9	% 41-142							
Surrogate: 1-Chlorooctadecane	101 9	37.6-147	7						

### Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	TRC	
	ZACH CONDER	
	10 DESTA DR. SUITE 150 E	
	MIDLAND TX, 79705	
	Fax To:	
11/14/2018		Sampling Date:
11/16/2010		Compling Type

Received:	11/14/2018	Sampling Date:	11/13/2018
Reported:	11/16/2018	Sampling Type:	Soil
Project Name:	WHITE FALCON 16	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

### Sample ID: SP 1 - WSW (H803305-15)

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	11/16/2018	ND	2.35	117	2.00	8.91	
Toluene*	<0.050	0.050	11/16/2018	ND	2.24	112	2.00	7.80	
Ethylbenzene*	<0.050	0.050	11/16/2018	ND	2.17	109	2.00	7.53	
Total Xylenes*	<0.150	0.150	11/16/2018	ND	6.75	113	6.00	7.33	
Total BTEX	<0.300	0.300	11/16/2018	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	128	16.0	11/15/2018	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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142							
Surrogate: 1-Chlorooctadecane	99.6	% 37.6-14	7						

### Cardinal Laboratories

*=Accredited Analyte

Celez 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

## **ARDINAL** aboratories

Page 61 o<del>f 7</del>2

Page 18 of 19

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1052

### 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: TRC		BILLT			ANALYSIS REQUEST
Project Manager: Zacil Candor		P.O. #:			
Address: 10 Desta Dr. S. le 150	E	Company: CoC			
City: Midland State: TX :	Zip:	Attn:			
Phone #: Fax #:		Address:			
Project #: Project Owner:		City:			
Project Name: While Fulcon 16		State: Zip:			
Project Location:		Phone #:			
Sampler Name: Kule Schart of		Fax #:			
FOR LAB USE ONLY	MA	TRIX PRESERV. SAM	IPLING		
Lab I.D. Sample I.D.	or (C)omf Ainers Dwater Water	E SE: DOL		'H TEX	
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any analyses. All claims including those for negligence and any other cause whatsower shall be de service. In no event shall Cardinal be liable for incidental or consequent admages, including wi atfiliates or successors arisino out of or related to the performance of services hereinner the Care atfiliates or successors arisino and for related to the performance of services hereinner the Care atfiliates or successors arisino and for related to the performance of services hereinner the Care atfiliates or successors arisino and for related to the performance of services hereinner the Care atfiliates or successors arisino and for related to the performance of services hereinner the Care atfiliates or successors at the care of the related to the performance of services hereinner the Care atfiliates or successors at the care of the related to the performance of services hereinner the Care atfiliates or successors at the care of the related to the performance of services hereinner at the services at the services of the related to the performance of services hereinner at the services at the service of the related to the performance of services hereinner at the services at the services at the service of the related to the performance of services hereinner at the services at the service of the servic	claim arising whether base amed waived unless made in thout limitation, business int linal repartless of whether	d in contract or tort, shall be limited to the amoun n writing and received by Cardinal within 30 days terruptions, loss of use, or loss of profits incurred such folge is based upon any of the option of the	nt paid by the client for the s after completion of the app d by client, its subsidiaries,		
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Sample Condition Cool Intact

CHECKED BY: (Initials)

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## aboratories 101 East Marland, Ho (575) 393-2326 FAX

Page 62 of 72

Page 19 of 19

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	CHAIN-(	<b>DF-CUSTODY AND ANALYSIS REQUEST</b>
obbs, NM 88240		
	3/4510	ANALYSIS REQUEST
dar	P.O. #:	
Suite 150E	Company: CO6	
State: 7/K Zip:	Attn:	3

P.O. #:			
Company: COG			
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Date: 8/17/2019

### Soil Profile

Description	ft. bgs
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Photo 1 - View of affected area prior to delineation activities, facing Northwest.



Photo 2 - View of affected area prior to remediation activities, facing West.



Photo 3 - View of affected area during initial investigation, facing East.



Photo 4 - View of affected area during Geoprobing activities, facing South.



Photo 5 - View of affected area after excavation activities, facing East.



Photo 6 - View of affected area after excavation activities, facing West.



Photo 8 - View of affected area after backfill activities, facing North.

### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action											
						<b>OPERA</b>	ГOR	🛛 Ini	tial Report		Final Report
Name of Co	ompany: C	OG Operat	ing, LLC	C (OGRID# 229	137)	Contact: Ro	bert McNeill				
Address: 60	0 West Ill	linois Avenu	ie, Midla	nd TX 79701		Telephone I	No.: 432-683-74	43			
Facility Na	me: White	Falcon 16	State #02	3H		Facility Typ	e: Well				
Surface Ow	ner: State			Mineral C	Dwner:	State		APIN	lo.: 30-025-	43699	
				LOCA	TIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County		
	10	235	355	220		North	812	West		Lea	
			Lat	itude: 32.13689	) Longi	itude: -103.:	377934 NA	AD83			
				NAT	URE	OF REL	EASE				
Type of Rele	ase: Produc	ed Water				Volume of	Release:	Volume	Recovered:		
Course of De	lasses Flass					53bbls		15bbls	111 CD'		
Source of Ke	elease: Flow	line				Date and Hour of Occurrence: Date and Hour of Discovery:		*			
Was Immediate Notice Given?				If YES, To	Whom?						
		$\boxtimes$	Yes	No 🗌 Not Re	equired	Olivia Yu-NMOCD					
By Whom? I	Rehecca Has	skell				Date and F	oves-NMSLO	5-19nm			
Was a Watercourse Reached?				olume Impacting t	he Watercourse.						
			Yes 🛛	No							
If a Watercon	urse was Im	pacted, Descr	ibe Fully. ⁴	k		F	RECEIVE	D			
						B	v Olivia V	- u at 8:31 :	m Nov	28	2017
Describe Cau	use of Proble	em and Reme	dial Action	n Taken.*			y Onvia T	u at 0.01 (	,	20,	2011
A third party back into ser	A third party contractor struck a buried poly flowline coming from the White Falcon 16 State #001H Battery while digging. The line was repaired and put back into service.										
								_			
Describe Are	a Affected a	and Cleanup /	Action Tak	ten.*							
The release v	vas containe	ed to a 66' x 3	0' area on	the north edge of	the loc	ation. A vacu	um truck was disr	atched to the site	to recover fr	eestand	ing fluids
Concho will	have the spi	ill area evalua	ted for any	possible impact	from the	e release and	we will present a	remediation worl	plan to the N	MOCI	) for
approval pric	approval prior to any significant remediation activities.										

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

	OIL CONSERVATION DIVISION		
Signature: Staldan Atim	- A		
Printed Name: Sheldon L. Hitchcock	Approved by Environmental Specialist:		
Title: HSE Coordinator	Approval Date: 11/28/2017 Expiration Date:		
E-mail Address: slhitchcock@concho.com	Conditions of Approval:		
Date: 11/20/2017 Phone: 575-746-2010	see attached directive		
Attach Additional Sheets If Necessary			

|1RP-4881

nOY1733228951 pOY1733231352

Released to Imaging: 11/9/2022 12:05:09 PM

Form C-141	State of New Mexico	Incident ID	
Page 3	Oil Conservation Division	District RP	1RP-4881
		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 discover date.

What is the shallowest depth to groundwater beneath the area affected by the release?	125	-150	(ft	bgs)
Did this release impact groundater 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	1	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinarly high-water mark)?		Yes	7	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?		Yes	<b>v</b>	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	7	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?		Yes	$\checkmark$	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?		Yes	$\checkmark$	No
Are the lateral extents of the release within 300 feet of a wetland?		Yes	7	No
Are the lateral extents of the release overlying a subsurface mine?		Yes	~	No
Are the laterial extents of the release overlying an unstable area such as karst geology?		Yes	$\checkmark$	No
Are the lateral extents of the release within a 100-year floodplain?		Yes	7	No
Did the release impact areas not on an exploration, development, production or storage site?		Yes	$\checkmark$	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
- Determination of water sources and significant watercourses within 1/2-mile of the laterial 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 volument of material to be remediated, the proposed remediation technigue, proposed sampling plan and methods, anticipated timelines for beginning and completing th remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modifies by site- and release-specific parameters.

Received by OCD: 11/9/2022 12:01:12 PM

Form C-141	State of New Mexico	Incident ID	
Page 4	Oil Conservation Division	District RP	1RP-4881
		Facility ID	
		Application ID	

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

Printed Name:	Ike Tavarez	Title:	Senior HSE Supervisor	_
Signature:	MBS	Date:	12/28/18	
email:	<u>itavarez@concho.com</u>	Telephone:	(432) 701-8630	-
OCD Only				
Received by:		Date:		

Form C-141	State of New Mexico	Incident ID	
Page 6	Oil Conservation Division	District RP	1RP-4881
		Facility ID	

### Closure

Application ID

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

**<u>Closure Report Attachment Checklist:</u>** Each of the following items must be included in the closure report.

- ☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must notified 2 days prior to liner inspection)
- Iz Laboratory analyses of final sampling (Note: appropriate OCD Distric office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name:	Ike Tavarez	Title:	Senior HSE Supervisor	
Signature:	1475	Date:	12/28/18	
email:	<u>itavarez@concho.com</u>	Telephone:	(432) 701-8630	_
OCD Only				

Received by:

Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment not does not relieve the responsible party of compliance with any other federal, state or local laws and/or regulations.

Signature: Hall	Date: 11/9/2022

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

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	157369
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

### CONDITIONS

Created By	Condition	Condition Date
bhall	None	11/9/2022

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