

#### **CLOSURE REQUEST**

### KAISER-FRANCIS OIL COMPANY

Created for submission to New Mexico Oil Conservation Division on 07/20/2022

ASHLEY GIOVENGO Project Environmental Scientist

**ENERGIZING AMERICA** 

July 20, 2022

#### Chad Hensley, Bradford Billings, Robert Hamlet, Jennifer Nobui, and/or Nelson Velez

State of New Mexico
Energy, Minerals, and Natural Resources
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

#### RE: CLOSURE REQUEST

**COMPANY** Kaiser-Francis Oil Company

**LOCATION** Red Hills Federal 203H Facility Pad 5

**API** 30-025-47208

PLSS Unit D Sec 31 T25S R33E

**GPS** 32.0934908, -103.616627

INCIDENT ID nAPP22005249980

#### BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Closure Request on behalf of Kaiser-Francis Oil Company, hereafter referred to as KFOC, regarding the release at the Red Hills Federal 203H Facility Pad 5 (Site) located in Unit D, Section 31, Township 25 South and Range 33 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.0934908 and West -103.616627. Surface owner of the Site is Limestone Basin Properties. The Site falls within New Mexico Oil Conservation Division (NMOCD), District 1 Hobbs.

On February 7, 2022, an Oilfield Water Logistics (OWL) free water knockout (FWKO) slop tank overflowed inside the tank containment. A small amount of fluid traveled down the catwalk stairs and onto the caliche pad. This failure resulted in the release of 10 barrels (bbls) of produced water and 1 barrel (bbl) of crude. KFOC immediately isolated the source of the leak and five bbls of produced water and 0.5 bbls of oil were recovered. KFOC immediately isolated the source of the leak. The spill area is located on the East side of the tank containment as shown in Figure 1.

A liner inspection was conducted on March 03, 2022, to verify that the liner inside the tank containment remained intact. Horizontal and vertical delineation sampling of the on-pad spill area was completed by Wescom personnel on March 28, 2022. Aaron Daniels of KFOC submitted an extension request to NMOCD on April 25, 2022, due to the ongoing facility expansion and onsite construction. On April 26, 2022, Robert

Hamlet of the NMOCD approved the extension request until August 07, 2022. We com personnel returned to the Site on June 23, 2022, to begin remediation of the on-pad spill area and to collect confirmation samples.

#### SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is 280 feet below ground surface (bgs) and is 1.18 miles Southeast of the Site. No playas or lakes are located within a one-mile radius of this Site (Attachment C).

#### KARST POTENTIAL

According to data from the Bureau of Land Management, this Site is located within medium karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

#### TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. This Site is in the medium karst potential zone and therefore, the applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX), 100 ppm Total Petroleum Hydrocarbons (TPH), and a chloride concentration at or below 600 mg/kg (ppm).

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Red Hills Facility Pad 5 — 32.093491, -103.616627						
Depth to Groundwater		Closure Criteria (unites in mg/kg)				
		Chloride * numberical limit or background, whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
No water data within 0.5 mile radius		600	100		50	10
less than 50 ft bgs		600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs	280 ft	20000	2500	1000	50	10
Surface Water	Yes or No		If ye	s, then		
< 300 feet from continuously flowing watercourse or other significant watercourse?	No					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics

#### SITE ASSESSMENT AND DELINEATION

On March 03, 2022, Wescom personnel competent in conducting inspections of on-site equipment and facilities, visited the Site to visually inspect the integrity of the liner. Prior to conducting the inspection, the NMOCD was provided with a 48-hour liner inspection notification on April 26, 2022 (Attachment F). Wescom personnel verified that there was no visual evidence of a breach in the containment liner. It was determined that the liner remains intact and had the ability to contain the leak in question. Photographs taken during the liner inspection are included in Attachment B.

KFOC contracted Wescom to conduct on-site delineation activities and to determine the horizontal and vertical extent of the spill area on March 28, 2022. A total of five samples were jarred and sent to Envirotech, Inc, for laboratory analysis and all samples were below the applicable RRALs for the Site. Delineation sample locations are presented in Figure 1; laboratory analysis results are presented in Table 1 and laboratory analytical reports are included in Attachment E.

#### REMEDIATION ACTIVITES

Beginning on June 23, 2022, Wescom personnel arrived on-site to oversee the removal of impacted soils and to perform confirmation sampling. A backhoe was used to remove approximately 180 cubic yards of contaminated soil from the spill area. A total of 13 composite confirmation samples were collected over the two-day sampling and excavation period. All the confirmation samples were below the applicable RRALs for the Site (see Table 2).

All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. Confirmation sample locations are presented in Figure 2; laboratory analysis results are presented in Table 2 and laboratory analytical reports are included in Attachment E. Impacted material was disposed of at an approved disposal facility.

The required 48-hour confirmation sampling notification was sent on June 20, 2022, to Chad Hensley, Bradford Billings, Mike Bratcher, Robert Hamlet, Jennifer Nobui, and Nelson Velez, with the NMOCD in Santa Fe, New Mexico and is included in Attachment H.

### REQUEST FOR CLOSURE

On behalf of KFOC, Wescom hereby requests closure for the release associate with incident number nAPP2205249980 based on the logic below.

- The release has been horizontally and vertically delineated.
- All confirmation areas and samples are below applicable RRALs for the Site.
- Impacted material was removed and properly disposed of at an approved facility.

If you have any questions or comments, please do not hesitate to call Mrs. Ashley Giovengo at (505) 382-1211.

Sincerely,

Wescom, Inc.

#### Ashley Giovengo

Project Environmental Scientist

cc: Aaron Daniels, Kaiser-Francis Oil Company

Hutton Andrew, Kaiser-Francis Oil Company

Chad Hensley, NMOCD

Bradford Billings, NMOCD

Robert Hamlet, NMOCD

Jennifer Nobui, NMOCD

Nelson Velez, NMOCD

## REFERENCE MATERIALS

#### FIGURES

FIGURE 1. Delineation Sampling

FIGURE 2. Confirmation Sampling

#### TABLES

TABLE 1. Laboratory Analysis Results: Delineation Samples

TABLE 2. Laboratory Analysis Results: Confirmation Samples

#### ATTACHMENTS

**ATTACHMENT A.** C-141

**ATTACHMENT B.** Site Photos

**ATTACHMENT C.** Closure Criteria Supporting Documents

ATTACHMENT D. Karst Map



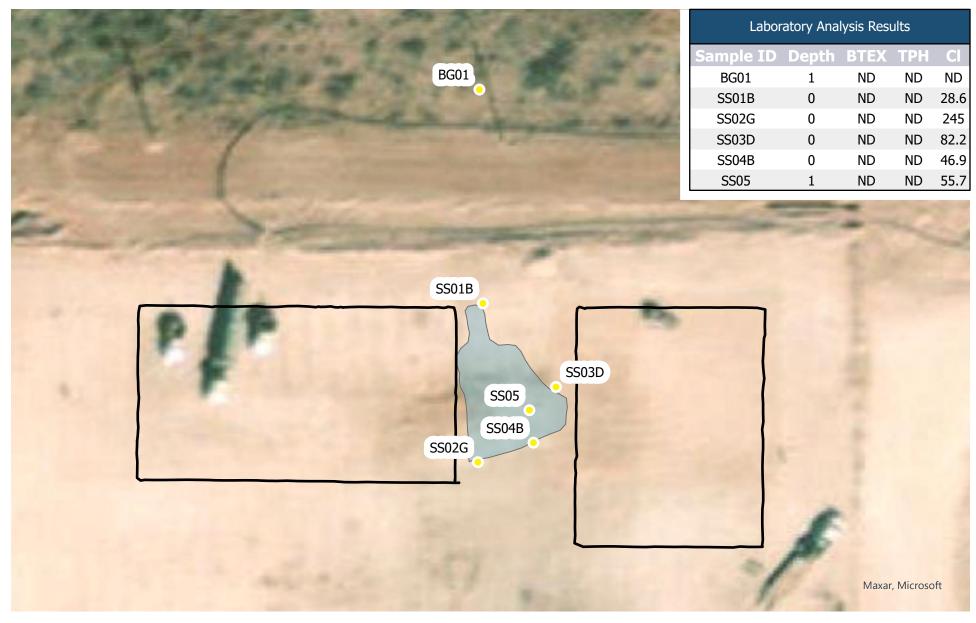
**Energizing America** 

**ATTACHMENT E.** Envirotech Inc. Laboratory Analysis Reports **ATTACHMENT F.** 48-hour Liner Inspection Notification Email

ATTACHMENT G. Extension Request Email

ATTACHMENT H. 48-hour Confirmation Sampling Notification Email

## **FIGURES**



#### FIGURE 1. DELINEATION SAMPLING

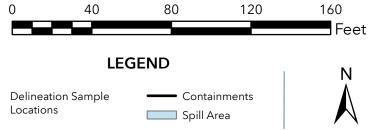
Red Hills Federal 203H - Facility Pad 5 Incident ID: nAPP2205249980

API: 30-025-47208

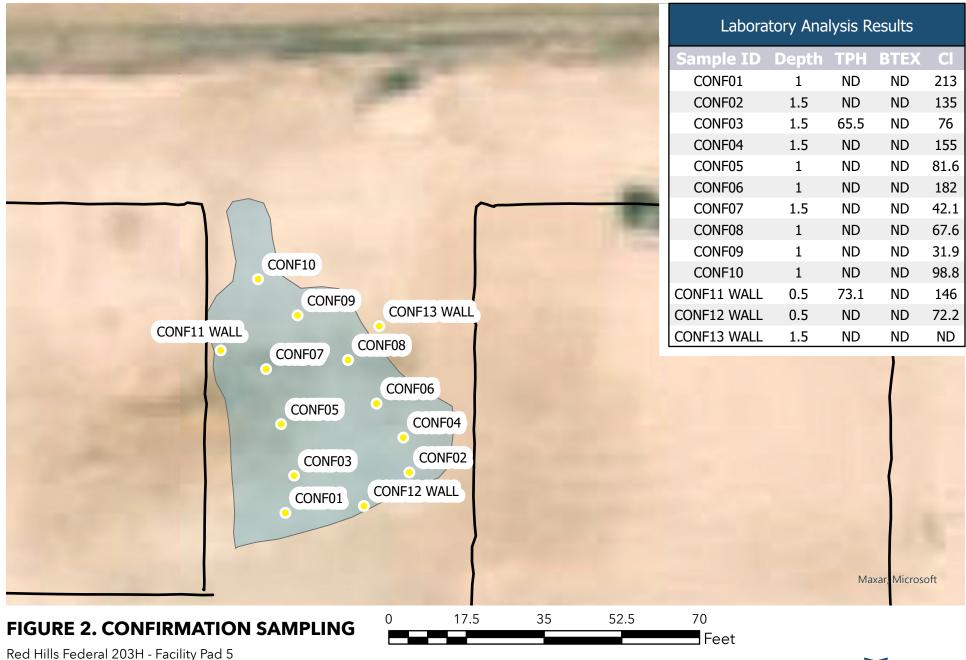
GPS Coordinates: 32.0934908, -103.616627

Lea County, New Mexico

Released to Imaging: 1/28/2022 3:31:20 PM







**LEGEND** 

Containments

Spill Area

Confirmation Sample

Locations

Red Hills Federal 203H - Facility Pad 5 Incident ID: nAPP2205249980

API: 30-025-47208

GPS Coordinates: 32.0934908, -103.616627

Lea County, New Mexico Kaiser-Francis Oil Company

Released to Imaging: 7/28/2022 3:31:20 PM

## **TABLES**

Red Hi	ills Fede	ral 203H	Facility	Pad 5	nAPP22	205249980
Kaiser-Francis Oil Company   07.18.2022						
Tab	le 1. Labo	ratory Ana	alysis Re	sults: De	lineation S	Samples
Sample Description			Petroleum Hydrocarbons			Inorganic
			Vol	atile	Extractable	
				BTEX		
			Benzene	(total)	TPH	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Cl	osure Crite	ria	10	50	100	600
SS01B	0	3/28/2022	ND	ND	ND	28.6
SS02G	0	3/28/2022	ND	ND	ND	245
SS03D	0	3/28/2022	ND	ND	ND	82.2
SS04B	0	3/28/2022	ND	ND	ND	46.9
SS05	1	3/28/2022	ND	ND	ND	55.7
BG01	0	3/28/2022	ND	ND	ND	ND
BG01	1	3/28/2022	ND	ND	ND	ND
ABBREVIAT	IONS					
BTEX — Benze	ne, Toluene, Eth	nylene, Xylene		GRO — Gaso	line Range Orga	nics
DRO — Diesel	DRO — Diesel Range Organics ND — Non-detect					
ft. — Feet	ft. — Feet mg/kg — Milligrams per Kilogram			gram		
TPH — Total Petroleum Hydrocarbons						
Notes						
Bold Red - Results are above closure criteria						
Gray Highlight - Background Samples						

#### Red Hills Federal 203H Facility Pad 5 | nAPP2205249980 Kaiser-Francis Oil Company | 07.18.2022 **Table 2. Laboratory Analysis Results: Confirmation Samples Sample Description Petroleum Hydrocarbons Inorganic** Volatile Extractable **BTEX** Chloride Benzene (total) TPH Sample ID Date (mk/kg) (mk/kg) (mk/kg) (mk/kg) Depth (ft.) 10 **Closure Criteria 50** 100 600 CONF01 6/24/2022 ND ND ND 213 CONF02 1.5 6/24/2022 ND ND ND 135 CONF03 1.5 6/24/2022 ND ND 76 65.5 CONF04 1.5 6/24/2022 ND ND ND 155 CONF05 1 6/24/2022 ND ND ND 81.6 CONF06 1 6/24/2022 ND ND ND 182 CONF07 1.5 6/24/2022 ND ND ND 42.1 CONF08 1 6/24/2022 ND ND ND 67.6 CONF09 1 6/24/2022 ND ND ND 31.9 CONF<sub>10</sub> 1 6/24/2022 ND ND ND 98.8 CONF11 Wall 0.5 6/24/2022 ND ND 73.1 146 CONF12 Wall 72.2 0.5 6/24/2022 ND ND ND 0.5 ND ND CONF13 Wall 6/24/2022 ND ND **ABBREVIATIONS** BTEX — Benzene, Toluene, Ethylene, Xylene GRO — Gasoline Range Organics DRO — Diesel Range Organics ND — Non-detect

ft. — Feet

mg/kg — Milligrams per Kilogram

TPH — Total Petroleum Hydrocarbons

**Notes** 

**Bold Red** - Results are above closure criteria

Gray Highlight - Background Samples

## ATTACHMENT A

Signed C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2205249980
District RP	
Facility ID	
Application ID	

#### **Release Notification**

#### **Responsible Party**

Responsible Party: Kaiser-Francis Oil Company	OGRID
Contact Name: Aaron Daniels	Contact Telephone: 918-491-4352
Contact email: aarond@kfoc.net	Incident # (assigned by OCD) nAPP2205249980
Contact mailing address: 6733 S. Yale, Tulsa, OK 74136	

#### **Location of Release Source**

Latitude 32,0934908

Longitude -103.616627

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Red Hills Federal 203H Facility Pad 5	Site Type: Tank Battery
	API# (if applicable) 30-025-47208

Unit Letter	Section	Township	Range	County
D	31	25S	33E	Lea

#### Nature and Volume of Release

Materia	al(s) Released (Select all that apply and attach calculations or specif	ic justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0.5
☑ Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
override on RH 203H ES		nent & a small amount went onto the ground. Manual ow to OWL FWKO slop tank, when OWL FWKO high wledged, but issue was not addressed.

Page 2

Oil

Maria		1 180 10
State of New Mexico	Incident ID	nAPP2205249980
Conservation Division	District RP	
	Facility ID	
	Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes 🏻 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environt failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to •CD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Aaron Da	niels Title: Sr. EHS Representative
Signature: Atory	5 Date: 421/22
email; aarond@kfoc.net	Telephone: 918-491-4352
OCD Only	
Received by:	Date:

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Incident ID nAPP2205240080

Incident ID	nAPP2205249980
District RP	
Facility ID	
Application ID	

### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>280 (</u> ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
<ul> <li>         \infty         Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well         \infty         Field data     </li> </ul>	ls.			
Data table of soil contaminant concentration data				
Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release				
Boring or excavation logs				
<ul> <li>☒ Boring or excavation logs</li> <li>☒ Photographs including date and GIS information</li> <li>☒ Topographic/Aerial maps</li> </ul>				
🔀 Topographic/Aeriai maps				

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

Form C-141

Page 4

## State of New Mexico Oil Conservation Division

Incident ID	nAPP2205249980
District RP	
Facility ID	
Application ID	

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: Hutton Andrew

Title: EHS Representative

Date: 05/06/2022

email: huttona@kfoc.net

Telephone: 918-491-4615

OCD Only

Received by: Jocelyn Harimon

Date: 07/27/2022

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

Form C-141 Page 6

#### State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: 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

Incident ID	nAPP2205249980
District RP	
Facility ID	
Application ID	

#### Closure

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

	i i							
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office							
☐ Laboratory analyses of final sampling (Note: appropriate ODC D	istrict 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 and regulations all operators are required to report and/or file certain remay endanger public health or the environment. The acceptance of a C should their operations have failed to adequately investigate and remed human health or the environment. In addition, OCD acceptance of a C compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conditaccordance with 19.15.29.13 NMAC including notification to the OCD	C-141 report by the OCD does not relieve the operator of liability liate contamination that pose a threat to groundwater, surface water, 2-141 report does not relieve the operator of responsibility for ns. The responsible party acknowledges they must substantially tions that existed prior to the release or their final land use in							
Printed Name: Hutton Andrew Title	Title: EHS Representative							
Signature: Dat	te: 05/06/2022							
email: huttona@kfoc.net Tele	ephone: 918-491-4615							
OCD Only								
Received by:Jocelyn Harimon	Date: _07/27/2022							
	liability should their operations have failed to adequately investigate and ter, human health, or the environment nor does not relieve the responsible regulations.							
Closure Approved by:	Date: 07/28/2022							
Printed Name: Jennifer Nobui	Title: Environmental Specialist A							

## ATTACHMENT B

Site Photos



Tank Containment Liner Inspection South Side





Liner Inspection Southwest Side



Liner Inspection Northeast Side



Spill Area



Delineation Sample Point SS01



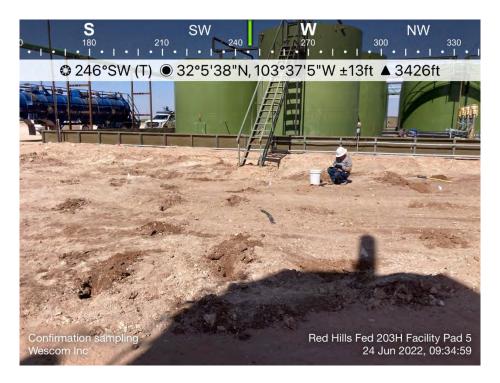
Excavation of Spill Area with Backhoe



Excavation of Spill Area with Backhoe



Excavated Spill Area



Confirmation Sampling

### ATTACHMENT C

Closure Criteria Supporting Documents

Received by OCD: 7/27/2022 6:20:09 AM



### New Mexico Office of the State Engineer

### **Wells with Well Log Information**

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

(R=POD has been replaced, O=orphaned, C=the file is

(quarters are 1=NW 2=NE 3=SW 4=SE)

water right	closed)		(quarters are smallest to largest)				t)	(NAD83 UTM in meters)				(in feet)					
		POD			qqq								Log File	Depth	Depth		License
POD Number	Code	Subbasin	County	Source	64164	Sec	Tws	Rng	X	Y	Distance Start Date	Finish Date	Date	Well	Water	Driller	Number
<u>C 04537 POD1</u>		С	LE	Shallow	4 4 4	31	25S	33E	631847	3550243	1909 06/11/2021	06/12/2021	06/21/2021	500		WALLACE, BRYCE J.LEE.NER	1706
C 04485 POD1		CUB	LE		4 1 1	12	26S	32E	629039	3548125	3818 10/05/2020	10/06/2020	11/19/2020	55		HAMMER, RODNEY S.WARDENER	1186
C 04547 POD1		CUB	LE	Shallow	2 4 4	07	26S	33E	631686	3547262	4521 07/15/2021	07/15/2021	08/02/2021	112		ATKINS, JACKIE D.UELENER	1249
C 04549 POD1		CUB	LE		1 1 1	11	26S	32E	627111	3548316	4771 07/14/2021	07/14/2021	08/02/2021	0		ATKINS, JACKIE D.UELENER	1249

Record Count: 4

**UTMNAD83 Radius Search (in meters):** 

Easting (X): 630539.78 **Northing (Y):** 3551635.92 Radius: 5000

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

7/20/22 11:25 AM WELLS WITH WELL LOG INFORMATION



### New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

X

20E6C

C 04537 POD1

4.00

31 25S 33E

631847 3550243



**Driller License: 1706 Driller Company:** ELITE DRILLERS CORPORATION

**Driller Name:** WALLACE, BRYCE J.LEE.NER

**Drill Start Date:** 06/11/2021

**Drill Finish Date:** 

Plug Date: 06/12/2021

Log File Date: 06/21/2021 **PCW Rcv Date:** 

Source:

Shallow

**Pump Type: Casing Size:**  Pipe Discharge Size: **Depth Well:** 

500 feet

**Depth Water:** 

Estimated Yield: 5 GPM

280 feet

Water Bearing Stratifications:

**Top Bottom Description** 

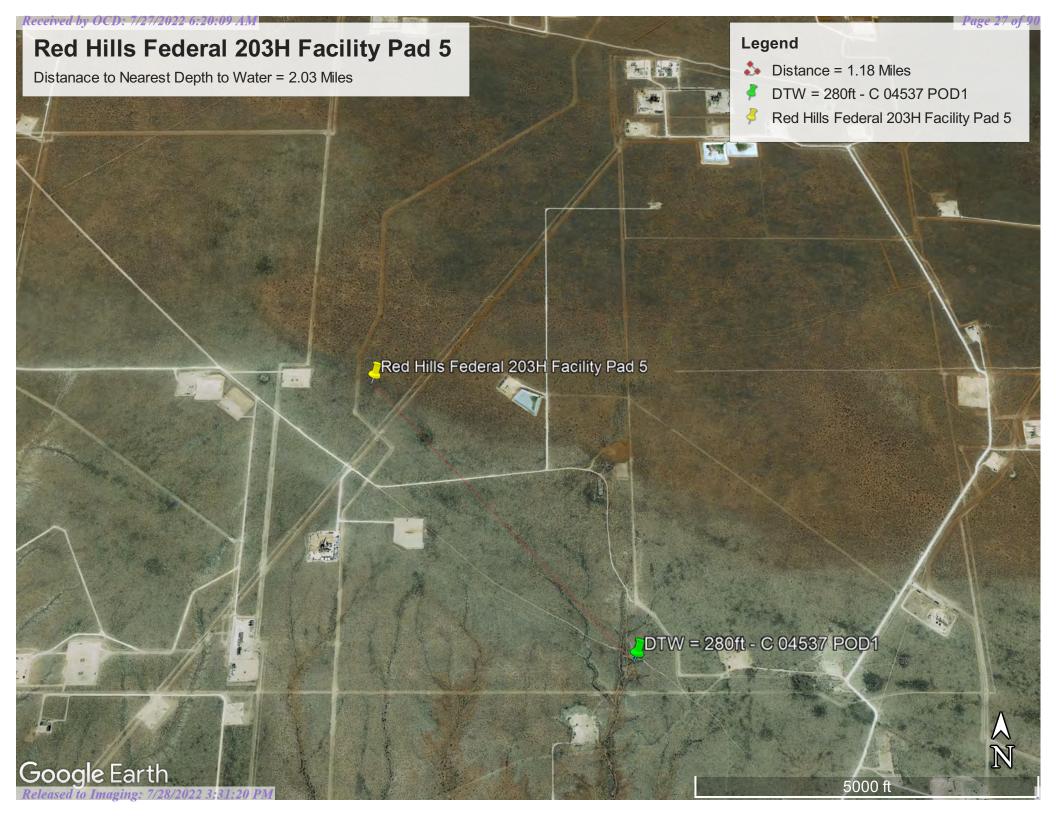
220

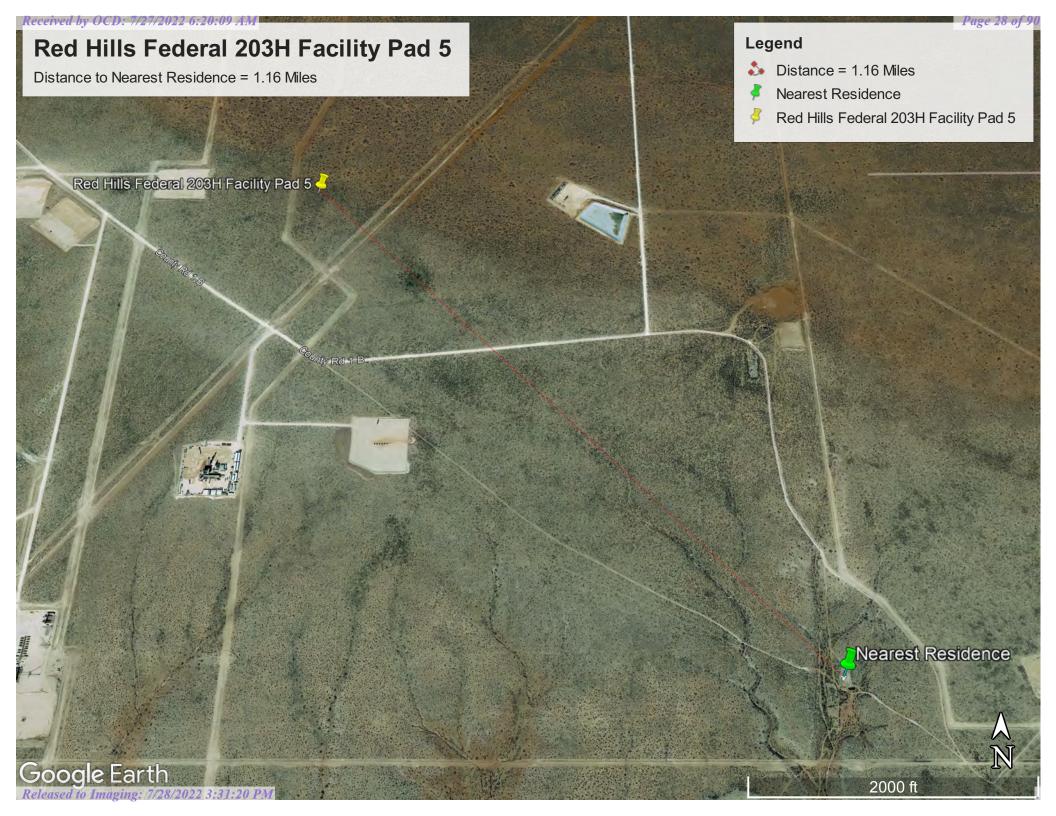
340 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

300 500







### Red Hills Fed 203H Facility Pad 5 -Wetland 1,331 Ft



February 23, 2022

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake

Other

Freshwater Forested/Shrub Wetland

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



### Red Hills Fed 203H Facility Pad 5 -Riverine 4,041 Ft



February 23, 2022

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



### Red Hills Federal 203H Facility Pad 5 -FW Pond 1.43 Miles



July 20, 2022

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Riverine

Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

OReleas 250 Im 5 9 Ang: 7/28/2022 9.991:20 PM

# National Flood Hazard Layer FIRMette



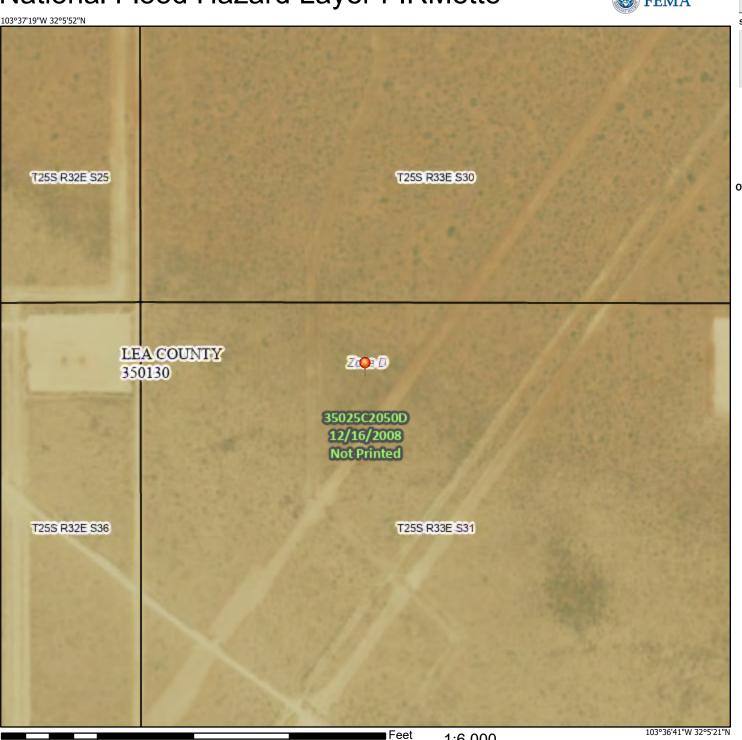


SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary**  — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

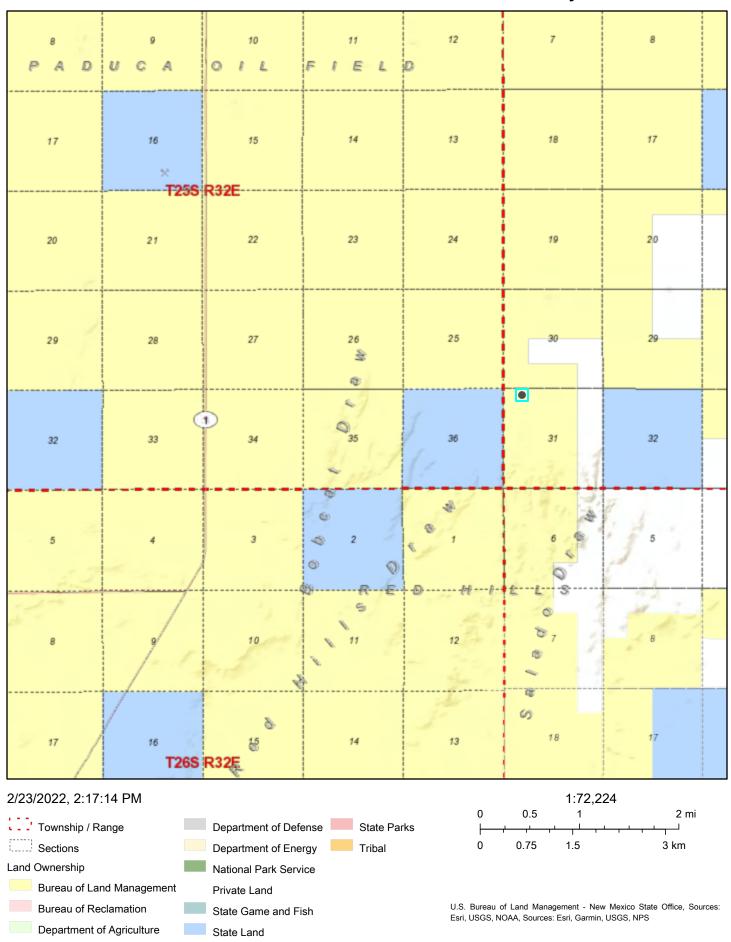
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/23/2022 at 4:39 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

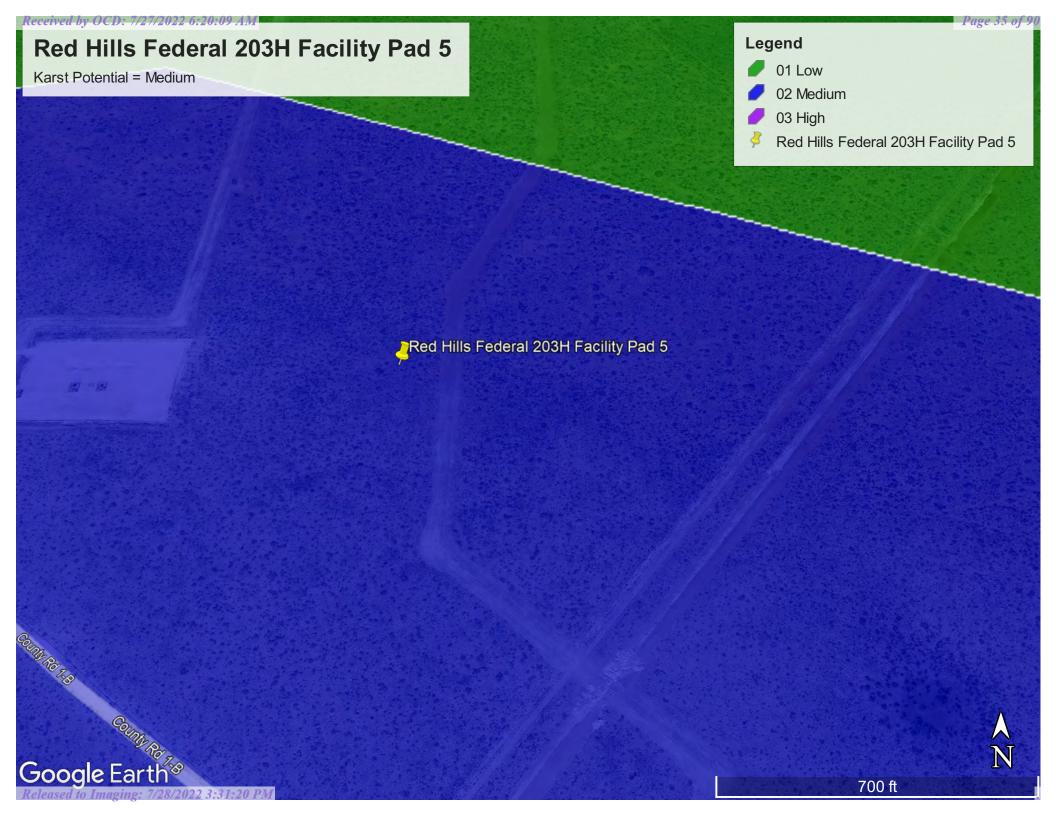


### Active Mines Near Red Hills Fed 203H Facility Pad 5



## ATTACHMENT D

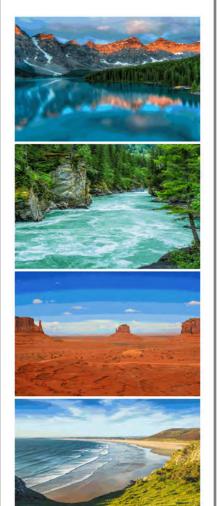
Karst Map



### ATTACHMENT E

Envirotech Inc. Laboratory Analysis Reports

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Kaiser Francis Oil Company

Project Name: Red Hills Federal 203H Facility

Pad 5

Work Order: E203195

Job Number: 21022-0001

Received: 3/31/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/6/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 4/6/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Federal 203H Facility Pad 5

Workorder: E203195

Date Received: 3/31/2022 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/31/2022 8:15:00AM, under the Project Name: Red Hills Federal 203H Facility Pad 5.

The analytical test results summarized in this report with the Project Name: Red Hills Federal 203H Facility Pad 5 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

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Technical Representative Office: 505-421-LABS(5227)

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## **Sample Summary**

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	D d.
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	04/06/22 16:38

Client Sample ID	Lab Sample ID Mati	ix Sampled	Received	Container
BG01 - 0'	E203195-01A Soi	03/28/22	03/31/22	Glass Jar, 4 oz.
BG01 - 1'	E203195-02A Soi	03/28/22	03/31/22	Glass Jar, 4 oz.
SS01B - 0'	E203195-03A Soi	03/28/22	03/31/22	Glass Jar, 4 oz.
SS02G - 0'	E203195-04A Soi	03/28/22	03/31/22	Glass Jar, 4 oz.
SS03D - 0'	E203195-05A Soi	03/28/22	03/31/22	Glass Jar, 4 oz.
SS04B - 0'	E203195-06A Soi	03/28/22	03/31/22	Glass Jar, 4 oz.
SS05 - 1'	E203195-07A Soi	03/28/22	03/31/22	Glass Jar, 4 oz.

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

## BG01 - 0' E203195-01

	E203173-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2214079
ND	0.0250	1	04/01/22	04/04/22	
ND	0.0250	1	04/01/22	04/04/22	
ND	0.0250	1	04/01/22	04/04/22	
ND	0.0250	1	04/01/22	04/04/22	
ND	0.0500	1	04/01/22	04/04/22	
ND	0.0250	1	04/01/22	04/04/22	
	100 %	70-130	04/01/22	04/04/22	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2214079
ND	20.0	1	04/01/22	04/04/22	
	93.5 %	70-130	04/01/22	04/04/22	
mg/kg	mg/kg	Ana	lyst: AK		Batch: 2214081
ND	25.0	1	04/01/22	04/05/22	
ND	50.0	1	04/01/22	04/05/22	
	107 %	50-200	04/01/22	04/05/22	
mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2215003
ND	20.0	1	04/04/22	04/06/22	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           IOO %         mg/kg           mg/kg         mg/kg           ND         20.0           93.5 %         mg/kg           ND         25.0           ND         50.0           107 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Ana           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         70-130           mg/kg         mg/kg         Ana           ND         20.0         1           93.5 %         70-130           mg/kg         mg/kg         Ana           ND         25.0         1           ND         50.0         1           107 %         50-200           mg/kg         mg/kg         Ana	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         04/01/22           ND         0.0250         1         04/01/22           ND         0.0250         1         04/01/22           ND         0.0500         1         04/01/22           ND         0.0250         1         04/01/22           ND         0.0250         1         04/01/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         04/01/22           mg/kg         mg/kg         Analyst: AK           ND         25.0         1         04/01/22           ND         50.0         1         04/01/22           ND         50.0         1         04/01/22           ng/kg         mg/kg         Analyst: AK	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         04/01/22         04/04/22           ND         0.0500         1         04/01/22         04/04/22           ND         0.0250         1         04/01/22         04/04/22           mg/kg         mg/kg         Analyst: IY         04/01/22         04/04/22           mg/kg         mg/kg         Analyst: IY         04/01/22         04/04/22           mg/kg         mg/kg         Analyst: AK         04/01/22         04/04/22           mg/kg         mg/kg         Analyst: AK         04/01/22         04/05/22           ND         25.0         1         04/01/22         04/05/22           ND         50.0         1         04/01/22         04/05/22           ND         50.0         1         04/01/22         04/05/22           M

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

## BG01 - 1' E203195-02

		E203173-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2214079
Benzene	ND	0.0250	1	04/01/22	04/05/22	
Ethylbenzene	ND	0.0250	1	04/01/22	04/05/22	
Coluene	ND	0.0250	1	04/01/22	04/05/22	
-Xylene	ND	0.0250	1	04/01/22	04/05/22	
,m-Xylene	ND	0.0500	1	04/01/22	04/05/22	
Total Xylenes	ND	0.0250	1	04/01/22	04/05/22	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	70-130	04/01/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2214079
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/22	04/05/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	04/01/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AK		Batch: 2214081
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		106 %	50-200	04/01/22	04/05/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2215024
Chloride	ND	20.0	1	04/06/22	04/06/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

#### SS01B - 0' E203195-03

		E203195-03				
	D 1	Reporting	D'I d'	D .		N .
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2214079
Benzene	ND	0.0250	1	04/01/22	04/05/22	
Ethylbenzene	ND	0.0250	1	04/01/22	04/05/22	
Гoluene	ND	0.0250	1	04/01/22	04/05/22	
o-Xylene	ND	0.0250	1	04/01/22	04/05/22	
o,m-Xylene	ND	0.0500	1	04/01/22	04/05/22	
Total Xylenes	ND	0.0250	1	04/01/22	04/05/22	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	70-130	04/01/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2214079
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/22	04/05/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	04/01/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AK		Batch: 2214081
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		112 %	50-200	04/01/22	04/05/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2215024
Chloride	28.6	20.0	1	04/06/22	04/06/22	

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

SS02G - 0' E203195-04

	E200173 04				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: IY		Batch: 2214079
ND	0.0250	1	04/01/22	04/05/22	
ND	0.0250	1	04/01/22	04/05/22	
ND	0.0250	1	04/01/22	04/05/22	
ND	0.0250	1	04/01/22	04/05/22	
ND	0.0500	1	04/01/22	04/05/22	
ND	0.0250	1	04/01/22	04/05/22	
	98.6 %	70-130	04/01/22	04/05/22	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2214079
ND	20.0	1	04/01/22	04/05/22	
	93.2 %	70-130	04/01/22	04/05/22	
mg/kg	mg/kg	Anal	yst: AK		Batch: 2214081
ND	25.0	1	04/01/22	04/05/22	
ND	50.0	1	04/01/22	04/05/22	
	113 %	50-200	04/01/22	04/05/22	
mg/kg	mg/kg	Anal	yst: RAS		Batch: 2215024
245	20.0	1	04/06/22	04/06/22	
	mg/kg ND Mg/kg ND mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           98.6 %         mg/kg           MD         20.0           93.2 %         mg/kg           ND         25.0           ND         50.0           113 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           98.6 %         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           93.2 %         70-130         1           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           113 %         50-200           mg/kg         mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         04/01/22           ND         0.0250         1         04/01/22           ND         0.0250         1         04/01/22           ND         0.0250         1         04/01/22           ND         0.0500         1         04/01/22           ND         0.0250         1         04/01/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         04/01/22           mg/kg         mg/kg         Analyst: AK           ND         25.0         1         04/01/22           ND         50.0         1         04/01/22           ND         50.0         1         04/01/22           MD         50.0         1         04/01/22           Mg/kg         mg/kg         Analyst: AK	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         04/01/22         04/05/22           ND         0.0250         1         04/01/22         04/05/22           ND         0.0250         1         04/01/22         04/05/22           ND         0.0500         1         04/01/22         04/05/22           ND         0.0250         1         04/01/22         04/05/22           ND         0.0250         1         04/01/22         04/05/22           mg/kg         mg/kg         Analyst: IY         04/01/22         04/05/22           mg/kg         mg/kg         Analyst: IY         04/01/22         04/05/22           mg/kg         mg/kg         Analyst: AK         04/01/22         04/05/22           mg/kg         mg/kg         Analyst: AK         04/01/22         04/05/22           ND         25.0         1         04/01/22         04/05/22           ND         50.0         1         04/01/22         04/05/22           ND         50.0         1         04/01/22         04/05/22           m

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

## SS03D - 0' E203195-05

		E203193-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
,				•	,	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anai	yst: IY		Batch: 2214079
Benzene	ND	0.0250	1	04/01/22	04/05/22	
Ethylbenzene	ND	0.0250	1	04/01/22	04/05/22	
Toluene	ND	0.0250	1	04/01/22	04/05/22	
o-Xylene	ND	0.0250	1	04/01/22	04/05/22	
p,m-Xylene	ND	0.0500	1	04/01/22	04/05/22	
Total Xylenes	ND	0.0250	1	04/01/22	04/05/22	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	04/01/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2214079
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/22	04/05/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	04/01/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AK		Batch: 2214081
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		107 %	50-200	04/01/22	04/05/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2215024
Chloride	82.2	20.0	1	04/06/22	04/06/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

## SS04B - 0' E203195-06

	E203173-00				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2214079
ND	0.0250	1	04/01/22	04/05/22	
ND	0.0250	1	04/01/22	04/05/22	
ND	0.0250	1	04/01/22	04/05/22	
ND	0.0250	1	04/01/22	04/05/22	
ND	0.0500	1	04/01/22	04/05/22	
ND	0.0250	1	04/01/22	04/05/22	
	98.5 %	70-130	04/01/22	04/05/22	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2214079
ND	20.0	1	04/01/22	04/05/22	
	94.3 %	70-130	04/01/22	04/05/22	
mg/kg	mg/kg	Anal	lyst: AK		Batch: 2214081
ND	25.0	1	04/01/22	04/05/22	
ND	50.0	1	04/01/22	04/05/22	
	109 %	50-200	04/01/22	04/05/22	
mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2215024
46.9	20.0	1	04/06/22	04/06/22	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           mg/kg         mg/kg           ND         20.0           94.3 %         mg/kg           ND         25.0           ND         50.0           109 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Ana           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           98.5 %         70-130           mg/kg         mg/kg         Ana           ND         20.0         1           94.3 %         70-130           mg/kg         mg/kg         Ana           ND         25.0         1           ND         50.0         1           109 %         50-200           mg/kg         mg/kg         Ana	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         04/01/22           ND         0.0250         1         04/01/22           ND         0.0250         1         04/01/22           ND         0.0500         1         04/01/22           ND         0.0250         1         04/01/22           ND         0.0250         1         04/01/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         04/01/22           mg/kg         mg/kg         Analyst: AK           ND         25.0         1         04/01/22           ND         50.0         1         04/01/22           ND         50.0         1         04/01/22           ND         50.0         1         04/01/22           ND         50.0         1         04/01/22           mg/kg         mg/kg         Analyst: AK	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         04/01/22         04/05/22           ND         0.0250         1         04/01/22         04/05/22           ND         0.0250         1         04/01/22         04/05/22           ND         0.0500         1         04/01/22         04/05/22           ND         0.0250         1         04/01/22         04/05/22           ND         0.0250         1         04/01/22         04/05/22           mg/kg         mg/kg         Analyst: IY         ND         20.0         1         04/01/22         04/05/22           mg/kg         mg/kg         Analyst: AK         ND         25.0         1         04/01/22         04/05/22           ND         25.0         1         04/01/22         04/05/22           ND         50.0         <

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

#### SS05 - 1'

#### E203195-07

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2214079
Benzene	ND	0.0250	1	04/01/22	04/05/22	
Ethylbenzene	ND	0.0250	1	04/01/22	04/05/22	
Toluene	ND	0.0250	1	04/01/22	04/05/22	
o-Xylene	ND	0.0250	1	04/01/22	04/05/22	
p,m-Xylene	ND	0.0500	1	04/01/22	04/05/22	
Total Xylenes	ND	0.0250	1	04/01/22	04/05/22	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	04/01/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2214079
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/22	04/05/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	04/01/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AK		Batch: 2214081
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		107 %	50-200	04/01/22	04/05/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2215024
Chloride	55.7	20.0	1	04/06/22	04/06/22	

Surrogate: 4-Bromochlorobenzene-PID

# **QC Summary Data**

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	Teporteu.
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

Carlsbad NM, 88220		Project Number: Project Manager:		shley Giovengo	0				4/6/2022 4:38:09PM
Volatile Organics by EPA 8021B Analyst: IY									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2214079-BLK1)							Prepared: 0	4/01/22 A	nalyzed: 04/02/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			
LCS (2214079-BS1)							Prepared: 0	4/01/22 A	nalyzed: 04/02/22
Benzene	4.50	0.0250	5.00		90.1	70-130			
Ethylbenzene	4.70	0.0250	5.00		93.9	70-130			
Toluene	4.91	0.0250	5.00		98.2	70-130			
o-Xylene	4.72	0.0250	5.00		94.4	70-130			
p,m-Xylene	9.53	0.0500	10.0		95.3	70-130			
Total Xylenes	14.2	0.0250	15.0		95.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			
LCS Dup (2214079-BSD1)							Prepared: 0	4/01/22 A	nalyzed: 04/02/22
Benzene	4.66	0.0250	5.00		93.2	70-130	3.34	20	
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130	3.38	20	
Toluene	5.08	0.0250	5.00		102	70-130	3.39	20	
o-Xylene	4.86	0.0250	5.00		97.2	70-130	2.94	20	
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130	3.31	20	
Total Xylenes	14.7	0.0250	15.0		98.1	70-130	3.19	20	



Surrogate: 1-Chloro-4-fluorobenzene-FID

# **QC Summary Data**

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

1224 Standpipe Rd Carlsbad NM, 88220		Project Number: Project Manager:		022-0001 shley Gioveng	go			4/6	/2022 4:38:09PM
	Non	halogenated (	Organics l	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2214079-BLK1)							Prepared: 0-	4/01/22 Analy	vzed: 04/02/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			
LCS (2214079-BS2)							Prepared: 0	4/01/22 Analy	zed: 04/02/22
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			
LCS Dup (2214079-BSD2)							Prepared: 0	4/01/22 Analy	zed: 04/02/22
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.1	70-130	1.66	20	

8.00

70-130

7.71

# **QC Summary Data**

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go				4/6/2022 4:38:09PM
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: AK
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2214081-BLK1)							Prepared: 0	4/01/22 Aı	nalyzed: 04/04/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.6		50.0		97.3	50-200			
LCS (2214081-BS1)							Prepared: 0	4/01/22 Aı	nalyzed: 04/04/22
Diesel Range Organics (C10-C28)	488	25.0	500		97.7	38-132			
Surrogate: n-Nonane	53.4		50.0		107	50-200			
Matrix Spike (2214081-MS1)				Source:	E203195-	04	Prepared: 0	4/01/22 Aı	nalyzed: 04/04/22
Diesel Range Organics (C10-C28)	506	25.0	500	ND	101	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			
Matrix Spike Dup (2214081-MSD1)				Source:	E203195-	04	Prepared: 0	4/01/22 Aı	nalyzed: 04/04/22
Diesel Range Organics (C10-C28)	509	25.0	500	ND	102	38-132	0.603	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



# **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Federal 203H Facility Pad 5 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/6/2022 4:38:09PM
	Analyst: DAS		

		Anions	s by EPA 3	00.0/9056	4				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2215003-BLK1)							Prepared: 0	4/04/22 Anal	yzed: 04/05/22
Chloride	ND	20.0							
LCS (2215003-BS1)							Prepared: 0	4/04/22 Anal	yzed: 04/05/22
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2215003-MS1)				Source:	E203191-	01	Prepared: 0	4/04/22 Anal	yzed: 04/05/22
Chloride	26200	2000	250	27600	NR	80-120			M2
Matrix Spike Dup (2215003-MSD1)				Source:	E203191-	01	Prepared: 0	4/04/22 Anal	yzed: 04/05/22
Chloride	24900	2000	250	27600	NR	80-120	4.95	20	M2



## **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		ed Hills Feder 1022-0001	al 203H Fa	cility Pac	15		Reported:
Carlsbad NM, 88220		Project Manager:	A	shley Gioveng	go				4/6/2022 4:38:09PM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2215024-BLK1)							Prepared: 0-	4/06/22 A	Analyzed: 04/06/22
Chloride	ND	20.0							
LCS (2215024-BS1)							Prepared: 0	4/06/22 A	Analyzed: 04/06/22
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2215024-MS1)				Source:	E203195-0	)2	Prepared: 0	4/06/22 A	Analyzed: 04/06/22
Chloride	254	20.0	250	ND	102	80-120			
Matrix Spike Dup (2215024-MSD1)				Source:	E203195-0	)2	Prepared: 0	4/06/22 A	Analyzed: 04/06/22
Chloride	254	20.0	250	ND	102	80-120	0.110	20	

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## **Definitions and Notes**

Kaiser Francis Oil	Company	Project Name:	Red Hills Federal 203H Facility Pad 5	
1224 Standpipe Rd		Project Number:	21022-0001	Reported:
Carlsbad NM, 8822	20	Project Manager:	Ashley Giovengo	04/06/22 16:38

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: I	Kaiser Fran	cis Oil Co	)		Bill To				La	b Us	se On	ly				TA	T	EPA P	rogram
Project:	Red Hills	Federal 2	03H Faci	lity Pad 5	Attention: Wescom Inc		Lab	WO#	+ _		Job I	Num	ber	1D	2D	3D	Standard	CWA	SDWA
	Manager:				Address: 1224 Standpipe Rd		Eó	20%	319	5	210	22	1000-				X		
Address	1224 Sta	ndpipe R	ld		City, State, Zip: Carlsbad, NM 8	88220					Analy	sis a	nd Metho	d					RCRA
City, Sta	te, Zip: Ca	rlsbad, N	IM 88220	)	Phone: 505-382-1211														
Phone:	505-382-1	211			Email: ashley.giovengo@wesco	ominc.com	115	115										State	
Email: a	shley.giov	engo@w	escomin	c.com			y 80	y 80	17	0	0	0.0		5		1	NM CO	UT AZ	TX
Report o	lue by:						ROF	30 5	, 8021	826	6010	e 30		ΝŽ	¥		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех by	VOC by 8260	Metals (	Chloride 300.0		BGDOC	BGDOC			Remarks	
15:38	3/28/21	Soil	1 Jar		BG01 - 0'									х					
15:40	3/28/21	Soil	1 Jar		BG01 - 1'	2								х					
12:19	3/28/21	Soil	1 Jar		SS01B - 0'	3								х			- 1		
13:10	3/28/21	Soil	1 Jar		SS02G - 01	4								х					
13:51	3/28/21	Soil	1 Jar		SS03D - 01	5								х					
12:33	3/28/21	Soil	1 Jar		SS04B - 0'	6								х					
13:42	3/28/21	Soil	1 Jar		SS05 - 1'	7								х					
									Ē										
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Addition	nal Instruc	tions: I	Cept on ic	ce, Please CC	: cole.burton@wescominc.com, shar.h	narvester@we	scom	inc.c	om, a	shle	y.gio	ven	go@weso	comi	nc.cc	om			
1000				ticity of this samp may be grounds fo	le. I am aware that tampering with or intentionally mi or legal action.  / Sampled by:	slabelling the sample	e locati	on,									eived on ice the day °C on subsequent da		ed or received
Religquis	ed by: (Sign:	nture)	Date 7-	-29-22 Tir	S:20 Received by Asignature)	Date 329/	22	Time	1:0	20	Rece	eived	on ice:	C	ab U	se On	ly		
Relinquist	ed by: (Sign:	ture)	_ Date	30/22 1	Received by Signature)	Date 3/31	122	Time	:15		T1			<u>T2</u>			T3		
Relinquist	ed by: (Signa	ature	Date	tir	ne Received by: (Signature)	Date		Time			AVG	Ten	np°C 4	4					
Sample Ma	trix; S - Soil, So	I - Solid, Sg -	Sludge, A - A	Aqueous, O - Othe	r	Containe	r Type	e: g - 1	glass,	<b>p</b> - p	-	STATE OF THE PARTY OF		er gla	SS, V	- VOA			- 14
					ed unless other arrangements are made. Hazar					_							eport for the an	alysis of the	above

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Inc.

Printed: 3/31/2022 11:09:46AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Piene (\$93) 382-131   Dea Langued In: 007-0922 17-59   Longed In By: Cadilic Christian Holes and Relevative provincing execution care   Dea Date: 040522 17-59 (3 day TAT)    1. Does the sample; Do match the COC?   Yes   Ves   Ve	Client:	Kaiser Francis Oil Company	Date Received:	03/31/22	08:15	Work Order ID:	E203195
Chain of Custody (COC)  1. Does the sample 10 match the COC? 2. Does the number of samples per sampling site location mutch the COC yes 3. Were samples dopped of they elient or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding inte? 5. Were all samples received within holding inte? 6. Fit simine hold time, are not included in this discussion.  Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAI, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 8. Yes 8. Sample Cooler 9. Were custody/security seals instar? 9. Was the sample received intext, i.e., not broken? 9. Was the sample received in its of transples are received will 15 nations of sampling 13. If no visible ice, receord the temperature. Actual sample temperature: 4°C 8. Sample Constituer 15. Are VOC samples collected in the COC analyses? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was at rip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers? 19. Is the appropriate volume/weight or number of sample containers? 19. Is the appropriate volume/weight or number of sample containers? 19. Is the appropriate volume/weight or number of sample containers? 19. Is the appropriate volume/weight or number of sample containers? 20. Were field sample labels filled out with the minimum information 22. Are samples Collected? 23. Over field anaple labels filled out with the minimum information one collected? 24. Is also filteration required and or requested for dissolved metals? 25. Does the cocy quited to get sent to a subcontract laboratory? 26. Does the sample have more than one phase, i.e., multiplasse? 27. If yes, does the COC expectly which phase(s) is to be unalyzed? 28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract Laboratory specified by the client and	Phone:	(505) 382-1211	Date Logged In:	03/29/22	17:59	Logged In By:	Caitlin Christian
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14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  10. Sample ID?  10. Date/Time Collected?  10. Collectors name?  11. Does the COC or field labels indicate the samples were preserved?  12. Are sample(s) correctly preserved?  13. Is lab filteration required and/or requested for dissolved metals?  14. Is lab filteration required and/or requested for dissolved metals?  15. Does the Sample Matrix  16. Is lab filteration required and/or sequested for dissolved metals?  16. Does the sample have more than one phase, i.e., multiphase?  17. If yes, does the COC specify which phase(s) is to be analyzed?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  19. Was a subcontract Laboratory specified by the client and if so who?  19. Ves  10. Vere teld sample serving the sample servin	Sample	Container					
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29. Was a subcontract laboratory specified by the client and if so who?  NA Subcontract Lab: NA	Subcont	ract Laboratory					
Client Instruction			-		Subcontract Lab: NA		
	Client I	<u>nstruction</u>					

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Kaiser Francis Oil Company

Project Name: Red Hills Federal 203H Facility

Pad 5

Work Order: E206197

Job Number: 36107

Received: 6/28/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/6/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 7/6/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Federal 203H Facility Pad 5

Workorder: E206197

Date Received: 6/28/2022 11:21:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/28/2022 11:21:00AM, under the Project Name: Red Hills Federal 203H Facility Pad 5.

The analytical test results summarized in this report with the Project Name: Red Hills Federal 203H Facility Pad 5 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

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labadmin@envirotech-inc.com

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West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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## Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	Donoutoda
1224 Standpipe Rd	Project Number:	36107	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/06/22 17:21

Client Comple ID	I ah Camula ID	Matuin	Compled	Dansimad	Cantainan
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 1'	E206197-01A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF02 - 1.5'	E206197-02A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF03 - 1 .5'	E206197-03A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF04 - 1. 5'	E206197-04A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF05 - 1'	E206197-05A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF06 - 1'	E206197-06A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF07 - 1.5'	E206197-07A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF08 - 1'	E206197-08A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF09 - 1'	E206197-09A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF10 - 1'	E206197-10A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF11 WALL5'	E206197-11A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF12 WALL5'	E206197-12A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.
CONF13 WALL- 1.5'	E206197-13A	Soil	06/24/22	06/28/22	Glass Jar, 4 oz.

Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/2022 5:21:35PM

## CONF01 - 1' E206197-01

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Benzene	ND	0.0250		1	06/28/22	07/05/22	
Ethylbenzene	ND	0.0250		1	06/28/22	07/05/22	
Toluene	ND	0.0250		1	06/28/22	07/05/22	
o-Xylene	ND	0.0250		1	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500		1	06/28/22	07/05/22	
Total Xylenes	ND	0.0250		1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		97.9 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		101 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		97.9 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		101 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0		1	06/28/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/28/22	06/29/22	
Surrogate: n-Nonane		101 %	50-200		06/28/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2227129
Chloride	213	20.0		1	06/30/22	07/02/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/2022 5:21:35PM

#### CONF02 - 1.5'

E	061	07	03
r,z	w	7/	-11/

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Benzene	ND	0.0250	1	l	06/28/22	07/05/22	
Ethylbenzene	ND	0.0250	1	l	06/28/22	07/05/22	
Toluene	ND	0.0250	1	l	06/28/22	07/05/22	
o-Xylene	ND	0.0250	1	l	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500	1	[	06/28/22	07/05/22	
Total Xylenes	ND	0.0250	1	1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.2 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		104 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.2 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		104 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0	1		06/28/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	[	06/28/22	06/29/22	
Surrogate: n-Nonane		113 %	50-200		06/28/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2227129

Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

#### CONF03 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Benzene	ND	0.0250	1		06/28/22	07/05/22	
Ethylbenzene	ND	0.0250	1		06/28/22	07/05/22	
Toluene	ND	0.0250	1		06/28/22	07/05/22	
o-Xylene	ND	0.0250	1		06/28/22	07/05/22	
p,m-Xylene	ND	0.0500	1		06/28/22	07/05/22	
Total Xylenes	ND	0.0250	1		06/28/22	07/05/22	
Surrogate: Bromofluorobenzene	·	97.5 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		102 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		97.5 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		102 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0	1		06/28/22	06/29/22	
Oil Range Organics (C28-C36)	65.5	50.0	1		06/28/22	06/29/22	
Surrogate: n-Nonane		113 %	50-200	·	06/28/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2227129



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

#### **CONF04 - 1.5'**

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Benzene	ND	0.0250	1	1	06/28/22	07/05/22	
Ethylbenzene	ND	0.0250	1	1	06/28/22	07/05/22	
Toluene	ND	0.0250	1	1	06/28/22	07/05/22	
o-Xylene	ND	0.0250	1	1	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500	1	1	06/28/22	07/05/22	
Total Xylenes	ND	0.0250	1	1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		96.5 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		103 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		96.5 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		103 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0	1	1	06/28/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	1	06/28/22	06/29/22	
Surrogate: n-Nonane		81.2 %	50-200		06/28/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2227129
						·	



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

## CONF05 - 1' E206197-05

		1200177-03				
Analyte	Result	Reporting Limit	Dilut	tion Prepar	ed Analyzed	Notes
Analyte	Resuit	Limit	Dilui	tion Frepar	ed Analyzed	Inotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2227047
Benzene	ND	0.0250	1	06/28/	22 07/05/22	
Ethylbenzene	ND	0.0250	1	06/28/	22 07/05/22	
Toluene	ND	0.0250	1	06/28/	22 07/05/22	
o-Xylene	ND	0.0250	1	06/28/	22 07/05/22	
p,m-Xylene	ND	0.0500	1	06/28/	22 07/05/22	
Total Xylenes	ND	0.0250	1	06/28/	22 07/05/22	
Surrogate: Bromofluorobenzene		97.9 %	70-130	06/28/	22 07/05/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/28/	22 07/05/22	
Surrogate: Toluene-d8		104 %	70-130	06/28/	22 07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/	22 07/05/22	
Surrogate: Bromofluorobenzene		97.9 %	70-130	06/28/	22 07/05/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/28/	22 07/05/22	
Surrogate: Toluene-d8		104 %	70-130	06/28/	22 07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/	22 06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/	22 06/29/22	
Surrogate: n-Nonane		124 %	50-200	06/28/	22 06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: KL		Batch: 2227129
Chloride	81.6	20.0	1	06/30/	22 07/02/22	
Chioriac	01.0	20.0		33/30/.	002/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/2022 5:21:35PM

## CONF06 - 1' E206197-06

		2200177 00				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		alyst: IY	,	Batch: 2227047
Benzene	ND	0.0250	1	06/28/22	07/05/22	Batch. 2227017
Ethylbenzene	ND	0.0250	1	06/28/22	07/05/22	
Toluene	ND	0.0250	1	06/28/22	07/05/22	
o-Xylene	ND	0.0250	1	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500	1	06/28/22	07/05/22	
Total Xylenes	ND	0.0250	1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.6 %	70-130	06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	06/28/22	07/05/22	
Surrogate: Toluene-d8		103 %	70-130	06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.6 %	70-130	06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	06/28/22	07/05/22	
Surrogate: Toluene-d8		103 %	70-130	06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/22	06/29/22	
Surrogate: n-Nonane		110 %	50-200	06/28/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2227129
-	182	20.0	•	06/30/22	07/02/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

#### CONF07 - 1.5'

		2200177.07					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Benzene	ND	0.0250		1	06/28/22	07/05/22	
Ethylbenzene	ND	0.0250		1	06/28/22	07/05/22	
Toluene	ND	0.0250		1	06/28/22	07/05/22	
o-Xylene	ND	0.0250		1	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500		1	06/28/22	07/05/22	
Total Xylenes	ND	0.0250		1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		96.9 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		102 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		96.9 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		102 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0		1	06/28/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/28/22	06/29/22	
Surrogate: n-Nonane		114 %	50-200		06/28/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2227129
Chloride	42.1	20.0		1	06/30/22	07/02/22	
Chioride	1201	20.0					



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

## CONF08 - 1'

		E206197-08					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Benzene	ND	0.0250		1	06/28/22	07/05/22	
Ethylbenzene	ND	0.0250		1	06/28/22	07/05/22	
Toluene	ND	0.0250		1	06/28/22	07/05/22	
o-Xylene	ND	0.0250		1	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500		1	06/28/22	07/05/22	
Total Xylenes	ND	0.0250		1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		97.9 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		103 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		97.9 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		103 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0		1	06/28/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/28/22	06/29/22	
Surrogate: n-Nonane		115 %	50-200		06/28/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2227129
Chloride	67.6	20.0		1	06/30/22	07/02/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

## CONF09 - 1' E206197-09

	11200177-07				
Racult			ion Prepared	Analyzed	Notes
Result	Lillit	Dilut	ion Frepared	Allaryzeu	Notes
mg/kg	mg/kg	A	Analyst: IY		Batch: 2227047
ND	0.0250	1	06/28/22	07/05/22	
ND	0.0250	1	06/28/22	07/05/22	
ND	0.0250	1	06/28/22	07/05/22	
ND	0.0250	1	06/28/22	07/05/22	
ND	0.0500	1	06/28/22	07/05/22	
ND	0.0250	1	06/28/22	07/05/22	
	99.5 %	70-130	06/28/22	07/05/22	
	96.1 %	70-130	06/28/22	07/05/22	
	101 %	70-130	06/28/22	07/05/22	
mg/kg	mg/kg	Α	Analyst: IY		Batch: 2227047
ND	20.0	1	06/28/22	07/05/22	
	99.5 %	70-130	06/28/22	07/05/22	
	96.1 %	70-130	06/28/22	07/05/22	
	101 %	70-130	06/28/22	07/05/22	
mg/kg	mg/kg	A	Analyst: JL		Batch: 2227055
ND	25.0	1	06/28/22	06/29/22	
ND	50.0	1	06/28/22	06/29/22	
	117 %	50-200	06/28/22	06/29/22	
mg/kg	mg/kg	Α	Analyst: KL		Batch: 2227129
	ND	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           99.5 %         96.1 %           101 %         101 %           mg/kg         mg/kg           ND         20.0           99.5 %         96.1 %           101 %         101 %           mg/kg         mg/kg           ND         25.0           ND         50.0	Reporting           Result         Limit         Dilut           mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           99.5 %         70-130           96.1 %         70-130           101 %         70-130           mg/kg         mg/kg           ND         20.0         1           99.5 %         70-130           101 %         70-130           mg/kg         mg/kg         A           ND         25.0         1           ND         50.0         1	Reporting Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         06/28/22           ND         0.0250         1         06/28/22           ND         0.0250         1         06/28/22           ND         0.0500         1         06/28/22           ND         0.0250         1         06/28/22           ND         0.0250         1         06/28/22           ND         0.0250         1         06/28/22           99.5 %         70-130         06/28/22           101 %         70-130         06/28/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         06/28/22           99.5 %         70-130         06/28/22           99.5 %         70-130         06/28/22           101 %         70-130         06/28/22           101 %         70-130         06/28/22           101 %         70-130         06/28/22           101 %         70-130         06/28/22           101 %         70-130         06/28/22 <td>Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         06/28/22         07/05/22           ND         0.0500         1         06/28/22         07/05/22           ND         0.0250         1         06/28/22         07/05/22           ND         0.0250         1         06/28/22         07/05/22           99.5 %         70-130         06/28/22         07/05/22           96.1 %         70-130         06/28/22         07/05/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         06/28/22         07/05/22           99.5 %         70-130         06/28/22         07/05/22           99.5 %         70-130         06/28/22         07/05/22           101 %         70-130         06/28/22         07/05/22</td>	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         06/28/22         07/05/22           ND         0.0500         1         06/28/22         07/05/22           ND         0.0250         1         06/28/22         07/05/22           ND         0.0250         1         06/28/22         07/05/22           99.5 %         70-130         06/28/22         07/05/22           96.1 %         70-130         06/28/22         07/05/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         06/28/22         07/05/22           99.5 %         70-130         06/28/22         07/05/22           99.5 %         70-130         06/28/22         07/05/22           101 %         70-130         06/28/22         07/05/22



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

## CONF10 - 1' E206197-10

		1200177 10				
Analyte	Result	Reporting Limit	Dilut	tion Prepared	d Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY		Batch: 2227047
Benzene	ND	0.0250	1	06/28/22	2 07/05/22	
Ethylbenzene	ND	0.0250	1	06/28/22	2 07/05/22	
Toluene	ND	0.0250	1	06/28/22	2 07/05/22	
o-Xylene	ND	0.0250	1	06/28/22	2 07/05/22	
p,m-Xylene	ND	0.0500	1	06/28/22	2 07/05/22	
Total Xylenes	ND	0.0250	1	06/28/22	2 07/05/22	
Surrogate: Bromofluorobenzene		99.8 %	70-130	06/28/22	2 07/05/22	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	06/28/22	2 07/05/22	
Surrogate: Toluene-d8		102 %	70-130	06/28/22	2 07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/22	2 07/05/22	
Surrogate: Bromofluorobenzene		99.8 %	70-130	06/28/22	2 07/05/22	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	06/28/22	2 07/05/22	
Surrogate: Toluene-d8		102 %	70-130	06/28/22	2 07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/22	2 07/02/22	_
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/22	2 07/02/22	
Surrogate: n-Nonane		111 %	50-200	06/28/22	2 07/02/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: KL		Batch: 2227129
Chloride	98.8	20.0	1	06/30/22	2 07/02/22	

Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/2022 5:21:35PM

## CONF11 WALL- .5'

		Reporting			·		
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Benzene	ND	0.0250	1	1	06/28/22	07/05/22	
Ethylbenzene	ND	0.0250	1	1	06/28/22	07/05/22	
Toluene	ND	0.0250	1	1	06/28/22	07/05/22	
o-Xylene	ND	0.0250	1	1	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500	1	1	06/28/22	07/05/22	
Total Xylenes	ND	0.0250	1	1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.0 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		103 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.0 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		103 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2227055
Diesel Range Organics (C10-C28)	73.1	25.0	1	1	06/28/22	07/02/22	T17
Oil Range Organics (C28-C36)	ND	50.0	1	1	06/28/22	07/02/22	
Surrogate: n-Nonane		126 %	50-200		06/28/22	07/02/22	
A L. EDA 200 0/005/ A	mg/kg	mg/kg		Analyst:	KL		Batch: 2227129
Anions by EPA 300.0/9056A	mg/kg	mg ng					



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

#### CONF12 WALL- .5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227047
Benzene	ND	0.0250	1		06/28/22	07/05/22	
Ethylbenzene	ND	0.0250	1		06/28/22	07/05/22	
Toluene	ND	0.0250	1	l	06/28/22	07/05/22	
o-Xylene	ND	0.0250	1	l	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500	1	l	06/28/22	07/05/22	
Total Xylenes	ND	0.0250	1		06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.8 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		102 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.8 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		102 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0	1		06/28/22	07/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	l	06/28/22	07/02/22	
Surrogate: n-Nonane		121 %	50-200		06/28/22	07/02/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2227129
11110110 0 0 1 1111 0 0 0 0 0 1 1							



Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 51224 Standpipe RdProject Number:36107Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

#### CONF13 WALL- 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst:	IY		Batch: 2227047
Benzene	ND	0.0250	1		06/28/22	07/05/22	
Ethylbenzene	ND	0.0250	1		06/28/22	07/05/22	
Toluene	ND	0.0250	1		06/28/22	07/05/22	
o-Xylene	ND	0.0250	1	l	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500	1	l	06/28/22	07/05/22	
Total Xylenes	ND	0.0250	1		06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.9 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		102 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst:	IY		Batch: 2227047
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/28/22	07/05/22	
Surrogate: Bromofluorobenzene		98.9 %	70-130		06/28/22	07/05/22	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		06/28/22	07/05/22	
Surrogate: Toluene-d8		102 %	70-130		06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst:	JL		Batch: 2227055
Diesel Range Organics (C10-C28)	ND	25.0	1		06/28/22	07/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1		06/28/22	07/02/22	
Surrogate: n-Nonane		122 %	50-200		06/28/22	07/02/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst:	KL		Batch: 2227129
	ND	20.0			06/30/22	07/02/22	



## **QC Summary Data**

Kaiser Francis Oil CompanyProject Name:Red Hills Federal 203H Facility Pad 5Reported:1224 Standpipe RdProject Number:36107Carlsbad NM, 88220Project Manager:Ashley Giovengo7/6/20225:21:35PM

Carlsbad NM, 88220		Project Manager	r: As	shley Giovengo	0			7/	6/2022 5:21:35PM
	V	olatile Organi	ic Compo	unds by EP.	A 82601	3			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2227047-BLK1)							Prepared: 0	6/28/22 Anal	yzed: 07/05/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			
LCS (2227047-BS1)							Prepared: 0	6/28/22 Anal	yzed: 07/05/22
Benzene	2.35	0.0250	2.50		94.0	70-130			
Ethylbenzene	2.39	0.0250	2.50		95.7	70-130			
Toluene	2.30	0.0250	2.50		91.9	70-130			
o-Xylene	2.26	0.0250	2.50		90.5	70-130			
p,m-Xylene	4.52	0.0500	5.00		90.4	70-130			
Total Xylenes	6.78	0.0250	7.50		90.4	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			
LCS Dup (2227047-BSD1)							Prepared: 0	6/28/22 Anal	yzed: 07/05/22
Benzene	2.43	0.0250	2.50		97.3	70-130	3.51	23	
Ethylbenzene	2.50	0.0250	2.50		100	70-130	4.48	27	
Toluene	2.39	0.0250	2.50		95.8	70-130	4.16	24	
o-Xylene	2.34	0.0250	2.50		93.6	70-130	3.43	27	
p,m-Xylene	4.69	0.0500	5.00		93.8	70-130	3.67	27	
Total Xylenes	7.03	0.0250	7.50		93.7	70-130	3.59	27	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			

0.500

0.500

95.7

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.479

0.516

### **QC Summary Data**

Kaiser Francis Oil Company Project Name: Red Hills Federal 203H Facility Pad 5
1224 Standpipe Rd Project Number: 36107
Carlsbad NM, 88220 Project Manager: Ashley Giovengo 7/6/2022 5:21:35PM

Nonhalogenated	<b>Organics</b>	by EPA	8015D -	GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2227047-BLK1)						Prepared: 00	5/28/22 Ana	lyzed: 07/05/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.496		0.500	99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500	97.6	70-130			
Surrogate: Toluene-d8	0.513		0.500	103	70-130			
LCS (2227047-BS2)						Prepared: 0	5/28/22 Ana	lyzed: 07/05/22
Gasoline Range Organics (C6-C10)	57.3	20.0	50.0	115	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500	99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500	101	70-130			
Surrogate: Toluene-d8	0.506		0.500	101	70-130			
LCS Dup (2227047-BSD2)						Prepared: 0	5/28/22 Ana	lyzed: 07/05/22
Gasoline Range Organics (C6-C10)	59.3	20.0	50.0	119	70-130	3.45	20	
Surrogate: Bromofluorobenzene	0.503		0.500	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500	97.4	70-130			
Surrogate: Toluene-d8	0.518		0.500	104	70-130			



## **QC Summary Data**

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	Reported:
1224 Standpipe Rd	Project Number:	36107	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/6/2022 5:21:35PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go				7/6/2022 5:21:35PM
	Nonhal	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2227055-BLK1)							Prepared: 0	6/28/22 A	nalyzed: 06/29/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	52.8		50.0		106	50-200			
LCS (2227055-BS1)							Prepared: 0	6/28/22 A	nalyzed: 06/29/22
Diesel Range Organics (C10-C28)	559	25.0	500		112	38-132			
urrogate: n-Nonane	58.9		50.0		118	50-200			
Matrix Spike (2227055-MS1)				Source:	E206197-	12	Prepared: 0	6/28/22 A	nalyzed: 06/29/22
Diesel Range Organics (C10-C28)	610	25.0	500	ND	122	38-132			
urrogate: n-Nonane	63.6		50.0		127	50-200			
Matrix Spike Dup (2227055-MSD1)				Source:	E206197-	12	Prepared: 0	6/28/22 A	nalyzed: 06/29/22
Diesel Range Organics (C10-C28)	575	25.0	500	ND	115	38-132	5.87	20	
'urrogate: n-Nonane	60.3		50.0		121	50-200			



Chloride

Chloride

LCS Dup (2227129-BSD1)

### **QC Summary Data**

Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	Reported:
1224 Standpipe Rd Carlsbad NM, 88220	Project Number: Project Manager:	36107 Ashley Giovengo	7/6/2022 5:21:35PM

Aniona	h	E D A	300	0/90564

Anal	rot.	$V_{1}$	ı
Allal	yst.	N	Į

Prepared: 06/30/22 Analyzed: 07/02/22

Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2227129-BLK1)						I	Prepared: 0	6/30/22 Anal	yzed: 07/02/22	
Chloride	ND	20.0								
LCS (2227129-BS1)						I	Prepared: 0	6/30/22 Anal	yzed: 07/02/22	

250

250

20.0

20.0

250

254

90-110

90-110

1.43

100

102

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



### **Definitions and Notes**

ſ	Kaiser Francis Oil Company	Project Name:	Red Hills Federal 203H Facility Pad 5	
١	1224 Standpipe Rd	Project Number:	36107	Reported:
١	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/06/22 17:21

T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: k	Client: Kaiser Francis Oil Co Project: Red Hills Federal 203H Facility Pad 5						Bill	То		10 May 1		La	b Us	e On	ly .								rogram
				ity Pad 5			ntion: Wescom In			Lab	WO#	. ^.	ً ا	Job I				2D	3D	Stan	dard	CWA	SDWA
	Manager:						<u>ess:_1224 Standpi</u>			Ea	0	119	<u> </u>	$\mathcal{Q}_{\mathcal{C}}$	$\infty$	3.000	2				х		
	_1224 Sta				_		State, Zip: Carlsba			<u> </u>				Analy	sis a	nd Meth	od						RCRA
	te, Zip: Ca		M 88220		_	<u>Phon</u>	e: 505-382-1211													1.14	5 ( 6)		
	<u>505-382-1</u>				:	Email	I: ashley.giovengo	o@wescominc.	com	55	115					1 1 1						State	
Email: a	shley.giov	engo@w	<u>escomino</u>	com						8 2	8 >	77	0	0	300.0		Σ			N	м со	UT AZ	TX
Report o	lue by:									ğ	y 80	826	601	e 30		Σ	1 '		L	×			
Time Sampled	Date Sampled Matrix Containers Sample ID						Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех by 8021	VOC by 8260	Metals 6010	Chloride :		BGDOC	Верос				Remarks			
8:48	6/24/22	Soil	1 Jar			CC	ONF01 - 1'		l								х					-	
11:32	6/24/22	Soil	1 Jar			СО	NF02 - 1.5'		2								х						
11:41	6/24/22	Soil	1 Jar			со	NF03 - 1.5'		3								х						
11:44	6/24/22	Soil	1 Jar			со	NF04 - 1.5'		4								x						
9:11	6/24/22	Soil	1 Jar			CC	ONF05 - 1'		5								x						_
9:19	6/24/22	Soil	1 Jar			CC	ONF06 - 1'		Q								х						
11:54	6/24/22	Soil	1 Jar			со	NF07 - 1.5'		7								x						
9:28	6/24/22	Soil	1 Jar			CC	ONF08 - 1'	-	8								x						
9:34	6/24/22	Soil	1 Jar			CC	ONF09 - 1'		9								х						
9:47	6/24/22	Soil	1 Jar			CC	ONF10 - 1'		10								х						
Addition	nal instruc	tions: K	Cept on ic	e, Please C	C: cole.l	ourtor	n@wescominc.cor	m, shar.harvest	ter@wes	com	inc.c	om, a	shle	y.gio	ven	go@we	scom	inc.co	om				
1	•	-	d fraud and r	nay be grounds	for legal a	tion.	at tampering with or inte Sampled by:		g the sample	locati	on,										ce the day th sequent day		ed or received
relinquished by (Signature)  Received by: (Signature)  Received by: (Signature)  Received by: (Signature)							0).06	6-27	90	Time	100	)	Rece	eived	on ice:	(	Lab U	se On	ly				
400	ed by (Sign	ture)	10	37-AZ	Time:	)P	Received by: (Rignatur		Date	22	Time	:2	1	<u>T1</u>		ía.	. <u>T2</u>			<u>  T</u> E	3		
Refinquif	ed by: (Sign:	ature)	Date		Time		Received by: Signatur	re)	Date		Time			AVG	Ten	ոթ °C	4						1. 왕이 1명 12일 1 1 1일
Sample Ma	trix: S - Soil, So	l - Solid, Sg -	Sludge, A - A	queous, O - Otl	her				Container	Туре	: g - g	glass, ı					ber gl	ass, v	- VOA	. entre la l'ag	AL CAST VIDENTAL	s contributions	2.5
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazard																				eport fo	r the anal	ysis of the	above

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project In	nformatio	1					Chain of Custody	,		P(	$\mathcal{I}$	.2	lok	O,	1				Page	2 of
Client: K	aiser Fran	cis Oil Co	)			Bill To		1 4	3. 3	La	b Us	e On	lv	A X			TA	T.	EPA P	rogram
	Red Hills			lity Pad 5	7							Job I	Number		1D	2D	3D	Standard	CWA	SDWA
	/lanager:					Address: 1224 Standpipe Rd		F۵	O(1)		7	38	337-0	ထား				x		1
Address:	1224 Sta	ndpipe R	ld	<del>-</del>		City, State, Zip: Carlsbad, NM		ab WO# Job Number 1D 2D 3D Standard CWA Analysis and Method								RCRA				
City, Stat	e, Zip: Ca	rlsbad, N	IM 88220	)		Phone: 505-382-1211														
Phone: _	<u>505-382-1</u>	211			2	Email: ashley.giovengo@wes	cominc.com	15	15				İ			}			State	
<u>Email: a</u>	shley.giov	engo@w	escomino	c.com	_		•	y 80	۸ ۷	ជ	I		300.0		5			NM CO	ŪT AZ	TX
Report d	ue by:							8	စ္က	, 8021	826	601	e 30		N	¥		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех by	VOC by 8260	Metals 6010	Chloride		20098	рарос			Remarks	i
9:57	6/24/22	Soil	1 Jar	1		CONF115'	L.								х					_
11:21	6/24/22	Soil	1 Jar			CONF125'	12								х					
12:41	6/24/22	Soil	1 Jar			CONF13 - 1.5'	13								х					
		-																		
																				_
					-															
Addition	al Instruc	ions: K	Cept on ic	e, Please CC:	cole.l	ourton@wescominc.com, shar	r.harvester@wes	com	inc.c	om, a	shle	y.gic	vengo@	wesc	omir	ic.co	m		<u> </u>	
ate or time	of collection	s considere	d fraud a <u>nd</u> n	nay be grounds for	r legal ac	ware that tampering with or intentionally stion.  Sampled by:	mislabelling the sample	locati	on,					•				ceived on ice the day o°C on subsequent da		oled or receive
elinguishe Aling Ish	ed by: (Signa by: (Signa 100 100 100 100 100 100 100 100 100 10	tere) ture)	2	622 W	1:16 1:16	Received by: (Signature)  Received by: (Signature)  Received by: (Signature)	Date Date	7-2	Time	1:1	<u>'                                    </u>	Reco	eived on	<u></u>	Y Y I2		se On	ly		
Sample Mat	rix: S - Soil. Sd	- Solid. Se -	Sludge. A - A	queous, O - Other			Containe	Type	2: 6 - 1	glass	<b>p</b> - n				er gla	ss. v -	VOA	<u> (2.1) (487 (244 <b>%</b>)</u>		
						s other arrangements are made. Ha												eport for the an	alvsis of the	above
				•		ry with this COC. The liability of the la									mp	J <b></b>			,	



Printed: 6/28/2022 12:55:14PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	06/28/22	11:21	Work Order ID:	E206197
Phone:	(505) 382-1211	Date Logged In:	06/28/22	08:20	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	07/05/22	17:00 (4 day TAT)	<i>.</i>	
Chain of	Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location ma	tch the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: <u>UPS</u>		
4. Was th	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		Comment	ts/Resolution
Sample 7	Furn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (						
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?					
	, were custody/security seals intact?		No			
-	· •		NA			
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes			
	visible ice, record the temperature. Actual sample	temperature: 4°	<u>C</u>			
	Container VI Container					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?	_	NA			
	on-VOC samples collected in the correct containers		Yes			
	appropriate volume/weight or number of sample contain	ners collected?	Yes			
Field La						
	field sample labels filled out with the minimum info	ormation:	37			
	ample ID? Date/Time Collected?		Yes			
	Collectors name?		No No			
	Preservation		140			
	the COC or field labels indicate the samples were pr	reserved?	No			
	ample(s) correctly preserved?		NA			
	filteration required and/or requested for dissolved n	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha	.ca?	Na			
	, does the COC specify which phase(s) is to be analy		No			
		yzeur	NA			
	ract Laboratory					
	amples required to get sent to a subcontract laborato	•	No			
29. Was a	a subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab: na		
Client I	<u>nstruction</u>					
L						

Signature of client authorizing changes to the COC or sample disposition.

Received by OCD: 7/27/2022 6:20:09 AM

CI:- · ·	, I	1.000									1500	4.00	Notice	ites .	Day 1						
Client: Kaiser Francis Oil Co					Bill To			-	2.			se Only						TAT		EPA Pro	
Project: Red Hills Federal 203H Facility Pad 5 Project Manager: Ashley Giovengo				ity Pad 5		Attention: Wescom Inc			Eacle197			Job Number				20	2D 3D S		tandard	CWA	SDWA
					2 2 2 2	Address: 1224 Standpipe Rd			00	114									X		2021
	1224 Sta					City, State, Zip: Carlsbad, NM 88220						Analysis and Method					_	_			RCRA
	e, Zip: Ca	Company of the last of the las	M 88220		15 16 69	Phone: 505-382-1211													of the state		
	505-382-1			Ches.	E	mail: ashley.giovengo@wescomine	c.com	015	8015										111 d 00	State	77.
	shley.giov	engo@w	escomino	.com					by 8	8021	8	9	0.00		24				NM CO	UT AZ	IX
Report d	The management of the same				14			DRO BO		y 80	7 82	60	Je 3						×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO by 8015	<b>GRO/DRO</b>	втех ь	VOC by 8260	Metals 6010	Chloride 300.0		20000	Separate Sep	2000			Remarks	
8:48	6/24/22	Soil	1 Jar		170	CONF01 - 1'	ı								,	(					
11:32	6/24/22	Soil	1 Jar			CONF02 - 1.5'	2								,	(					
11:41	6/24/22	Soil	1 Jar			CONF03 - 1.5'	3								,	(					
11:44	6/24/22	Soil	1 Jar			CONF04 - 1.5'	4								,	(	*				
9:11	6/24/22	Soil	1 Jar	CONF05 - 1'			5								,	(					
9:19	6/24/22	Soil	1 Jar		CONF06 - 1'				13						1	(					
11:54	6/24/22	Soil	1 Jar			CONF07 - 1.5'	7								,	(					
9:28	6/24/22	Soil	1 Jar			CONF08 - 1'	8								,	(					
9:34	6/24/22	Soil	1 Jar			CONF09 - 1'	9								1	K					
9:47	6/24/22	Soil	1 Jar			CONF10 - 1'	10								1	K					
Addition	al Instruc	tions: K	ept on ic	e, Please CC: c	ole.bu	rton@wescominc.com, shar.harve	ster@wes	comi	nc.co	om, a	shle	y.gio	ven	go@w	escon	ninc.	com				
100				city of this sample. hay be grounds for le		ore that tampering with or intentionally mislabellion.  Sampled by:	ng the sample	locati	on,			A STATE OF THE PARTY OF THE PAR							ed on ice the day on subsequent d		led or received
Relinquished by Signature) Date 0 1 Time   Received by Signature) Date							6-27	90	Time	160	)	Lab Use Only Received on ice: (Y) N									
You	ed by Sign	WMI	Date Oc	77-22 1年	:15	Received by: (8 gnature)	Daty ODX	22	Time	:2	l	T1			T	2			Т3		
Relinquish	ed by: (Signa	ature)	Date	Time		Received by: (Signature)	Date		Time			AVG	Ten	np °C_	4						
Sample Mat	rix: S - Soil, Sc	- Solid, Sg -	Sludge, A - A	queous, O - Other _			Container	Type	: g - e	glass.					mber	lass.	v-V	OA	and of the two two two	8 - 1 - FREEER - 1 - 1	100
					unless	other arrangements are made. Hazardous													ort for the ar	alysis of the	above
						Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above												1000			



Chain of Custody

PO:36104

 $\mathsf{Page}\,\underline{\mathsf{Z}}\,\mathsf{of}\,\underline{\mathsf{Z}}$ 

Received by OCD: 7/27/2022 6:20:09 AM

	والمراج																			le de la		
Client: Kaiser Francis Oil Co						Bill To					La		se Only						AT	EPA Prog		ogram
Project: Red Hills Federal 203H Facility Pad 5						Attention: Wescom Inc			Lab WO#				Job Number I,				2D	3D	D Standard		CWA	SDWA
Project Manager: Ashley Giovengo						Address: 1224 Standpipe Rd			E2010197				SHOES							X		
Address: 1224 Standpipe Rd						City, State, Zip: Carlsbad, N	IM 88220					- /	Analysis and Methor							郎 电 当		RCRA
	te, Zip: Ca		IM 88220			Phone: 505-382-1211						T								S. S.		
	505-382-1					Email: ashley.giovengo@w	escominc.co	m	15	8015											State	
Email: a	shley.giov	engo@w	escomino	c.com					y 80	8	되	0		0.0		5				NM CO	UT AZ	TX
Report d	ue by:	_							05 b	00 d	807	826	9010	30		M	×			×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			EN	Lab umber	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		ВСООС	BGDOC				Remarks	
9:57	6/24/22	Soil	1 Jar	CONF	11.	CONF115' WALL5' CONF125'		11								x						
11:21	6/24/22	Soil	1 Jar	CONF	17	CONF125'		12								х					*	
12:41	6/24/22	Soil	1 Jar	COME	13	CONF13 - 1.5'		3								х						•
						PC.C.FI	uter	1														
						per.C.B.	410/2															
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							1															
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samples is	applicable or	nly to those	samples re	eceived by the	laborato	ry with this COC. The liability of the	e laboratory is li	imited to	the a	mount	t paid	for o	n the r	eport	i.							



## ATTACHMENT F

48-Hour Liner Inspection Notification Email

From: Ashley Giovengo

To: Hamlet, Robert, EMNRD; Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; jennifer.nobui@state.nm.us;

nelson.velez@state.nm.us; bradford.billings@state.nm.us Aaron Daniels; Cole Burton; Daniel Davis; Shar Harvester

Subject: 48-hour Liner Inspection Notification - Red Hills Federal 203H (nAPP2205249980)

**Date:** Tuesday, March 1, 2022 1:10:00 PM

### Hello All,

Cc:

This email is to notify the NMOCD that Wescom, Inc. will be at the Red Hills Federal 203H - Facility Pad 5 (nAPP2205249980) to perform a liner inspection. Inspection will be conducted on Thursday, March 03, 2022 (03/03/2022) at 1100 hours. Please let me know if you have any questions.

Thank you,

**Ashley Giovengo**, Environmental Manager - Permian

O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com

"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

# ATTACHMENT G

Extension Request Email

### **Ashley Giovengo**

From: Aaron Daniels <aarond@kfoc.net>
Sent: Tuesday, April 26, 2022 8:25 AM

To: Chris Fleming; Ashley Giovengo; David King

Cc: Hutton Andrew

Subject: FW: (Extension Approval) NAPP2205249980 - Red Hills Federal 203H Facility Pad 5

Extension was approved. Just FYI.

Aaron

From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Sent: Tuesday, April 26, 2022 8:31 AM To: Aaron Daniels <aarond@kfoc.net>

Cc: Hutton Andrew < Huttona@kfoc.net>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>; Nobui, Jennifer,

EMNRD <Jennifer.Nobui@state.nm.us>

Subject: [EXTERNAL] (Extension Approval) NAPP2205249980 - Red Hills Federal 203H Facility Pad 5

RE: Incident #NAPP2205249980

#### Aaron,

Your request for an extension to August 7th, 2022 is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet . Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



Received by OCD: 7/27/2022 6:20:09 AM

From: Aaron Daniels <a href="mailto:aarond@kfoc.net">aarond@kfoc.net</a> Sent: Monday, April 25, 2022 1:31 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>; Hensley, Chad, EMNRD < Chad. Hensley@state.nm.us>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>; Velez, Nelson, EMNRD < Nelson. Velez@state.nm.us>; Nobui,

Jennifer, EMNRD < Jennifer. Nobui@state.nm.us >

Cc: Hutton Andrew < Huttona@kfoc.net>

Subject: [EXTERNAL] nAPP2205249980 - Red Hills Federal 203H Facility Pad 5 - 90 day extension

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

This email serves as an extension request for the remediation of the release associated with the Red Hills Federal 203H Facility Pad 5. I am requesting an extension from the original May  $7^{th}$ , 2022 due date to August  $7^{th}$ , 2022.

We have completed initial remediation, but need to return to remediate localized areas on pad and collect confirmation samples.

The delay is in connection with a facilities expansion project that is currently ongoing. Target completion of this effort is 5/19/2022. We will re-engage in remediation efforts at that time.

Thanks,

Aaron Daniels EHS Manager Kaiser-Francis Oil Company 918-491-4352

## ATTACHMENT H

48-Hour Confirmation Sampling Notification Email

### **Ashley Giovengo**

Ashley Giovengo From:

Monday, June 20, 2022 8:58 PM Sent:

Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Billings, Bradford, EMNRD; Nobui, To:

Jennifer, EMNRD; Velez, Nelson, EMNRD; Aaron Daniels; camorgan@blm.gov

Cc: Cole Burton; Shar Harvester; Israel Estrella; Joey Croce; Cody York Subject:

48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 5 -

nAPP2205249980

Hello All,

We intend to take confirmation samples at the Red Hills Facility Pad 5 - nAPP2205249980 starting on (06/22/22 thru 06/24/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211 WescomInc.com | ashley.giovengo@WescomInc.com "I am in charge of my own safety."



Received by OCD: 7/27/2022 6:20:09 AM







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

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

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

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

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

CONDITIONS

Action 128960

### **CONDITIONS**

Operator:	OGRID:
KAISER-FRANCIS OIL CO	12361
PO Box 21468	Action Number:
Tulsa, OK 74121146	128960
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	7/28/2022