



**DEFERRAL REQUEST**

**KAISER-FRANCIS OIL COMPANY**

Created for submission to New Mexico Oil Conservation Division on 09/09/2022

**ASHLEY GIOVENGO**  
*Project Environmental Scientist*

**ENERGIZING AMERICA**

September 09, 2022

**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: DEFERRAL REQUEST**

<b>COMPANY</b>	Kaiser-Francis Oil Company
<b>LOCATION</b>	Red Hills Facility Pad 1
<b>API</b>	30-025-45383
<b>PLSS</b>	Unit L Sec 31 T25S R33E
<b>GPS</b>	32.0858301, -103.6186257
<b>INCIDENT ID</b>	nAPP2212768697

**BACKGROUND**

Wescom, Inc., hereafter referred to as Wescom, has prepared this Deferral Request on behalf of Kaiser-Francis Oil Company, hereafter referred to as KFOC, regarding the release at the Red Hills Facility Pad 1 (Site) located in Unit L, Section 31, Township 25 South and Range 33 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.0858301 and West -103.6186257. Surface owner of the Site is Bureau of Land Management (BLM). The Site falls within New Mexico Oil Conservation Division (NMOCD), District 1 Hobbs.

On May 7, 2022, an inlet to the free water knock out was left open which resulted in the release of 1,060 barrels (bbls) of produced water. The spill originated on the West side of the 6X20 separator and followed the high-pressure flow lines across the caliche pad. Produced water accumulated within the flare containment until the earthen berm was breached. The spill impacted 21,955 square feet (sq. ft) of the caliche pad and 5,061 sq. ft of native soils off-pad (see Figure1). KFOC immediately isolated the source of the leak and approximately 980 bbls of produced water was recovered.



Wescom personnel arrived onsite on May 12, 2022, to begin excavation of the off-pad spill area and to collect confirmation samples. The off-pad spill area was remediated in accordance with the reclamation standard for off-pad spill areas per 19.15.29.13 NMAC. A variance request was submitted to NMOCD and the BLM on May 18, 2022, to establish the size of the confirmation sampling areas. NMOCD approved a sampling variance for every 400 sq. ft on May 19, 2022. Wescom personnel returned to the Site on June 07, 2022, to complete delineation of the on-pad spill area.

Remediation of the on-pad spill area began on July 14, 2022 and was completed on July 19, 2022. Confirmation samples were collected every 400 sq. ft on pad and contaminated soil was hauled to an approved disposal facility. A deferral report was submitted to the NMOCD on July 29, 2022, and on August 09, 2022, KFOC personnel received email notification that the deferral request had been denied for the following reasons:

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2212768697, for the following reasons:

- **Deferral Denied. Additional delineation data needed for deferral approval. Deferred area needs to be reduced; area between SS07 and Flare unit can be addressed. Please resubmit a revised Deferral Request by September 9, 2022.**

Wescom personnel returned to the Site on August 18, 2022, in order reduce the size of the deferral area and to collect additional horizontal delineation samples. Remediation of the flare containment was completed on August 24, 2022 and confirmation samples were collected at various times throughout the five-day sampling and excavation period. Removal of impacted soils beneath the high-pressure flare and flare lines could not be achieved without the deconstruction of production equipment. Impacted soils do not pose an imminent risk to human health, safety, or the environment; therefore, KFOC respectfully requests deferral for the removal of those soils until the Site is abandoned and the facilities are removed.

## 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 1.0-mile East 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 chloride concentrations at or below 600 mg/kg (ppm).

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Red Hills Facility Pad 1 — 32.0858301, -103.618257						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride * numerical 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		20000	2500	1000	50	10
Surface Water	Yes or No	If yes, 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 May 08, 2022, KFOC contracted Wescom to begin remediation of the off-pad spill area. A Sampling variance was requested by KFOC on May 18, 2022 and approved by Crisha Morgan of BLM on the same day, Attachment F. A background sample, BG01, was collected 90 feet to the Southeast of the flare containment, as shown in Figure 3. Wescom personnel returned to the Site on June 07, 2022, to complete horizontal and vertical delineation of the on-pad spill area. A total of nine samples were jarred and sent to Envirotech, Inc, for laboratory analysis and all samples were below the applicable RRALs for the Site.

Wescom personnel returned to the Site on August 18, 2022, to continue excavation of the on-pad spill area and to begin the excavation of contaminated soils inside the flare containment. Four additional horizontal





delineation samples were collected on August 23, 2022, to verify the extent of the spill area and to address concerns held by the NMOCD about the size of the deferral area. 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 ACTIVITIES

Beginning on May 12, 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 660 cubic yards of contaminated soil from the off-pad spill area. A total of 25 composite confirmation samples were collected over the 3-day sampling and excavation period. All the confirmation samples were below the applicable RRALs for the Site (see Table 2). Confirmation sample locations are presented in Figure 2 and laboratory analytical reports are included in Attachment E.

Wescom personnel arrived onsite on July 08, 2022, to complete remediation of the on-pad spill area. Approximately 1,600 cubic yards of soil was removed from the spill area and a total of 21 confirmation samples were collected. All the confirmation samples were below the applicable RRALs for the Site except CONF42 and CONF43 (see Table 2). Wescom personnel returned to the Site on July 18, 2022, to re-scrape confirmation areas 42 and 43.

Remediation of the flare containment began on August 18, 2022 and was completed on August 23, 2022. Approximately 620 cubic yards of contaminated soil was removed from the flare containment and from the edge of the caliche pad. Wescom personnel collected ten additional confirmation samples – CONF47 through CONF56 - and all were below the applicable RRALs for the Site. Confirmation sample locations are presented in Figure 3 and laboratory analytical reports are included in Attachment E.

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 Figures 2 and 3; 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 notifications were sent on May 16, July 05, July 11, July 19, 2022 and again on August 11, and August 18, 2022, to Chad Hensley, Bradford Billings, Mike Bratcher, Robert Hamlet, Jennifer Nobui, and Nelson Velez, with the NMOCD in Santa Fe, New Mexico and are included in Attachment G.

## REQUEST FOR DEFERRAL

On behalf of KFOC, Wescom requests to defer approximately 1,500 cubic yards of contaminated soil around the high-pressure flare and beneath the flare lines until the Red Hills Facility Pad 1 is abandoned and reclamation activities commence based on the logic below.



- Deferral area between SS07 and the flare has been reduced as requested and shown in Figure 4.
- Due to the location of the contaminated soil beneath the high-pressure flare and beneath the high-pressure flare lines, it is not practical to remove impacted soil for remediation. The flare is currently active and would require shutting in production equipment for an extended period to remove substrate. Area of requested deferral is shown in Figure 4.
- The on-pad and off-pad spill areas have been horizontally and vertically delineated.
- Excavation of the accessible on-pad and off-pad spill areas has been completed in accordance with the medium cave/karst guidelines set forth by the BLM and in accordance with the strictest criteria on Table 1 NMAC.
- All confirmation areas and samples on-pad and off-pad are below applicable RRALs for the Site.
- Accessible 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 Ms. 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  
Bradford Billings, NMOCD  
Robert Hamlet, NMOCD  
Jennifer Nobui, NMOCD  
Nelson Velez, NMOCD



# REFERENCE MATERIALS

## FIGURES

- FIGURE 1.** Delineation Sampling
- FIGURE 2.** Confirmation Sampling: Off-Pad
- FIGURE 3.** Confirmation Sampling: On-Pad
- FIGURE 4.** Area of Requested Deferral

## 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
- ATTACHMENT E.** Envirotech Inc. Laboratory Analysis Reports
- ATTACHMENT F.** Confirmation Sampling Variance Request
- ATTACHMENT G.** 48-hour Confirmation Sampling Notification Emails



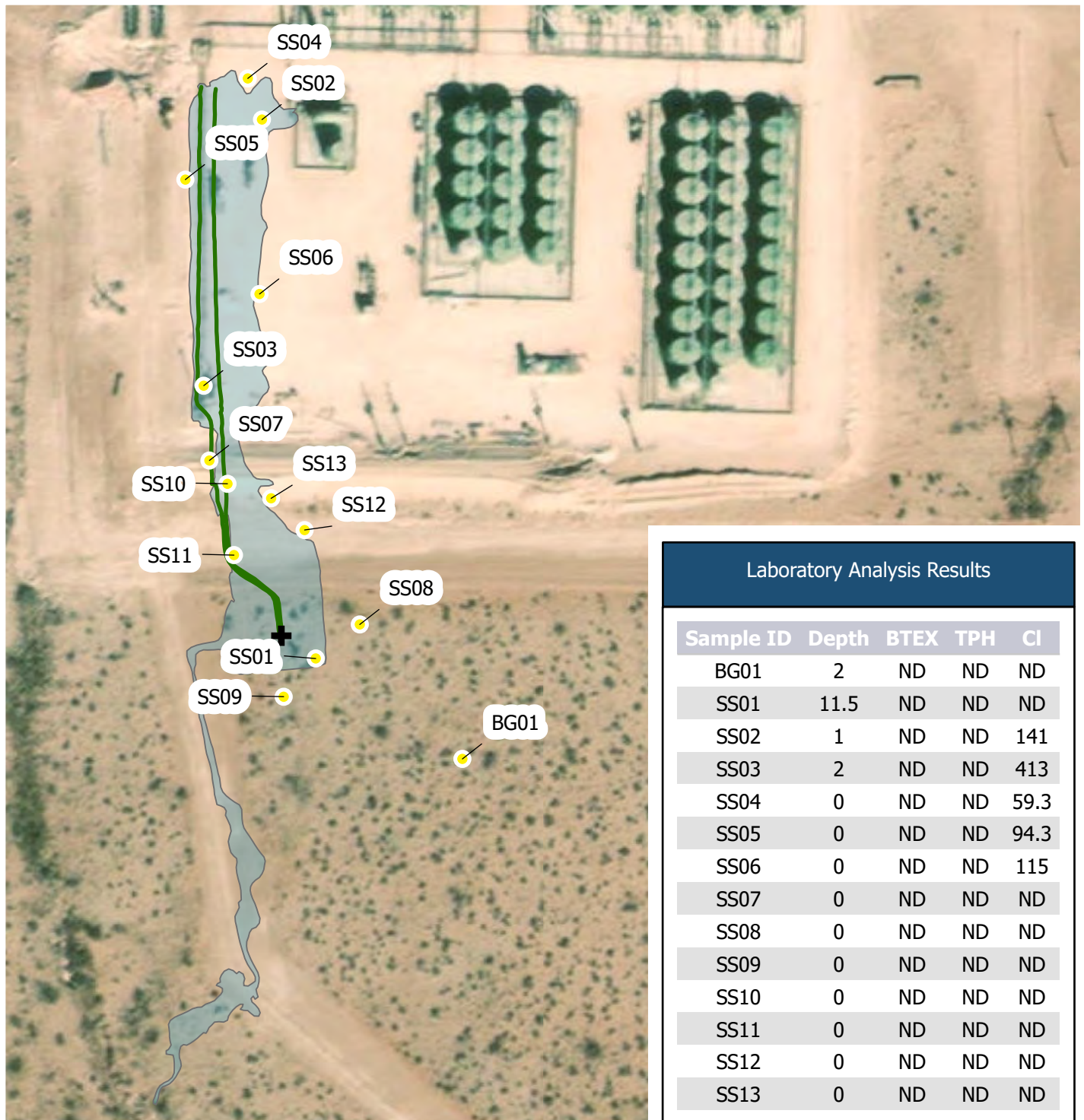
# FIGURES



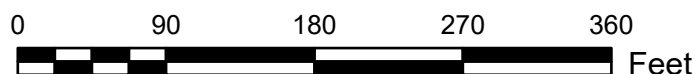
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**Red Hills Facility Pad 1** | Incident ID: nAPP2212768697



**FIGURE 1.  
DELINEATION SAMPLING**



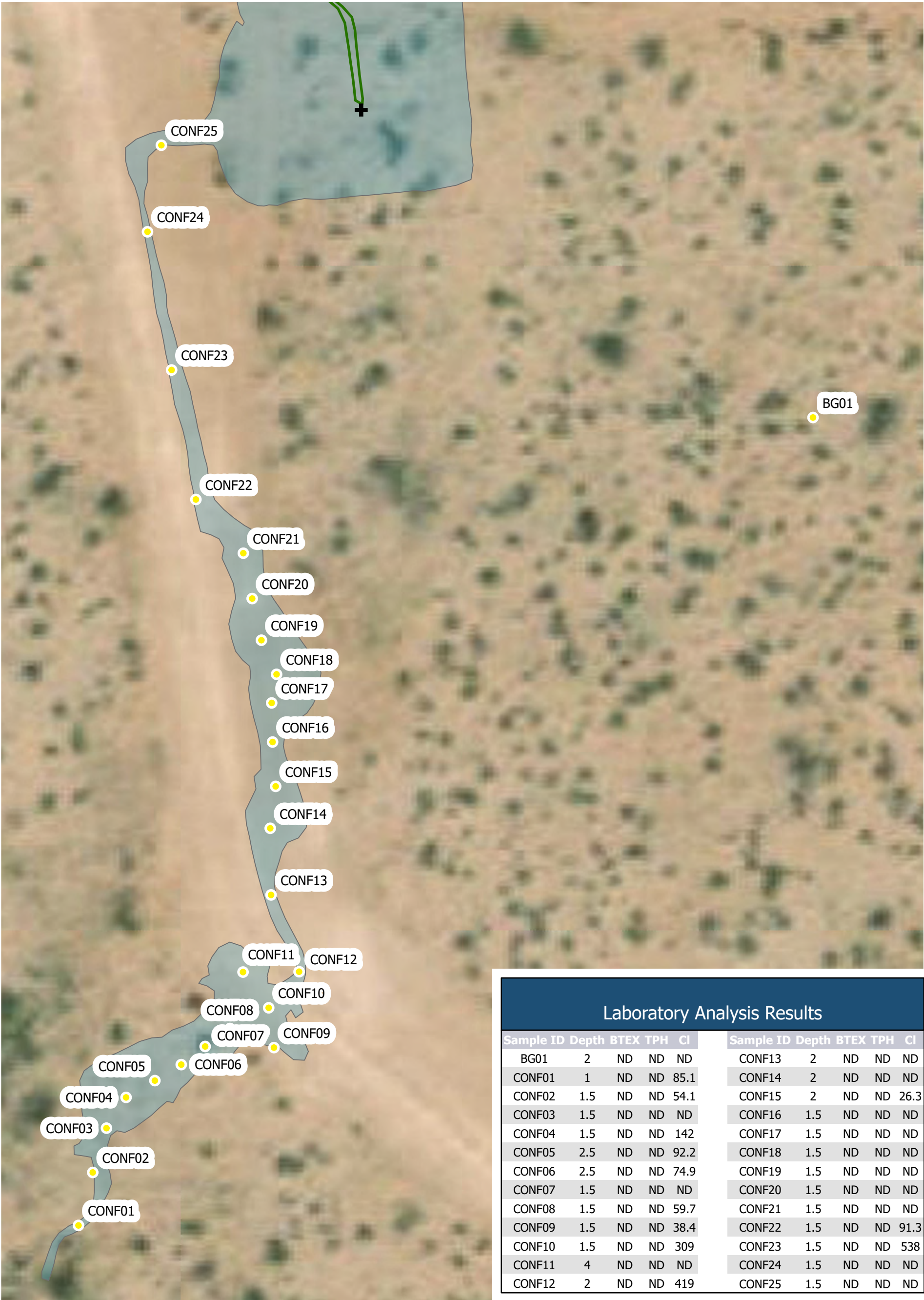
Red Hills Facility Pad 1  
 Incident ID: nAPP2212768697  
 API: 30-025-45383  
 GPS Coordinates: 32.0858301, -103.6186257  
 Lea County, New Mexico  
 Kaiser-Francis Oil Company

**LEGEND**

- Delineation Sample Locations
- ⊕ Flare
- High Pressure Flare Lines
- Spill Area

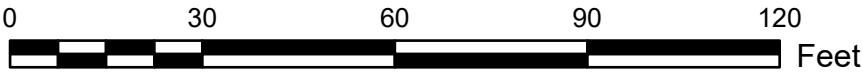






**FIGURE 2.**  
**CONFIRMATION SAMPLING (OFF-PAD)**

Red Hills Facility Pad 1  
Incident ID: nAPP2212768697  
API: 30-025-45383  
GPS Coordinates: 32.0858301, -103.6186257  
Lea County, New Mexico  
Kaiser-Francis Oil Company

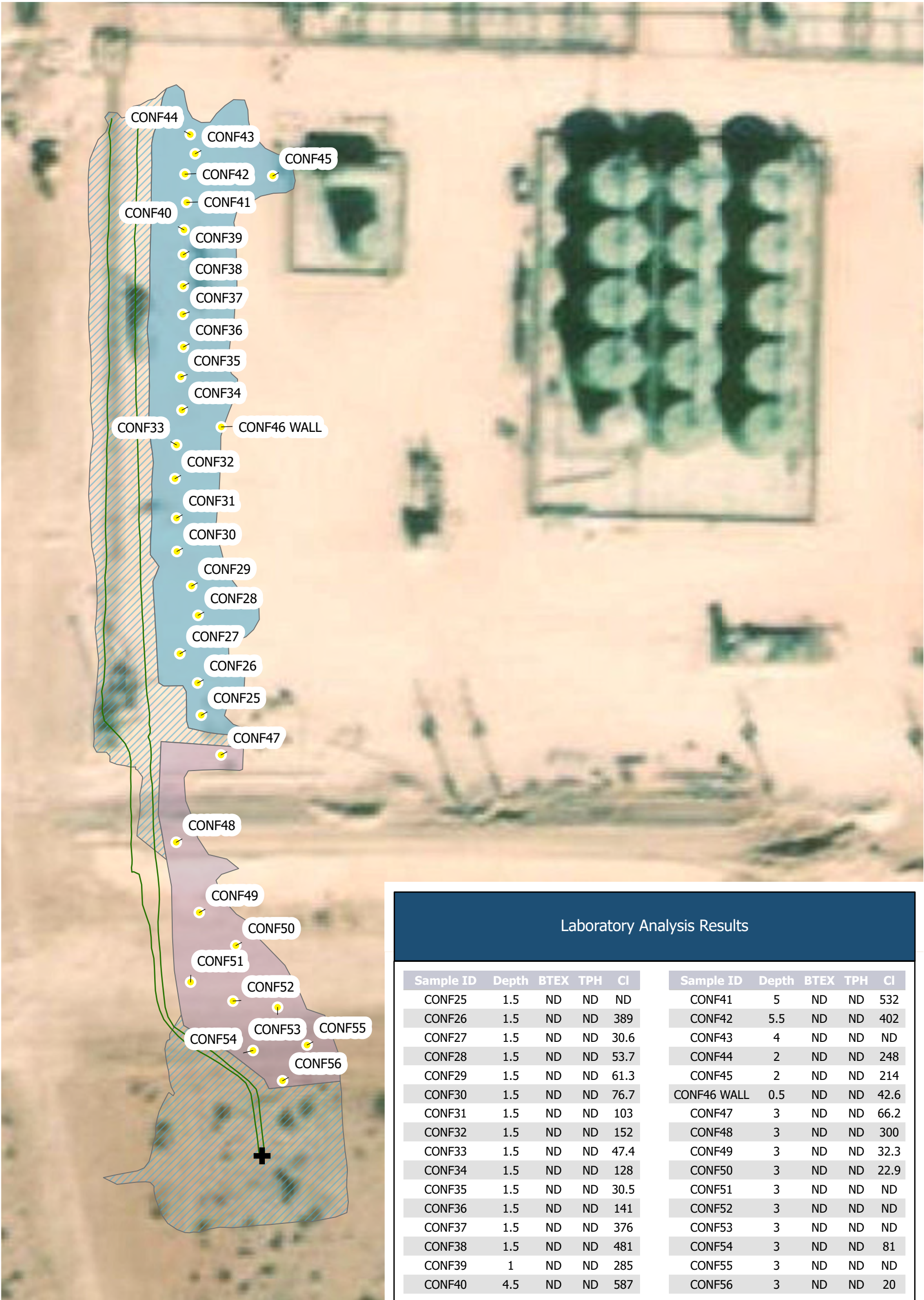


**LEGEND**

- Flare
- Confirmation Sample Locations
- High Pressure Flare Lines
- Off-Pad Spill Area







**FIGURE 3.**  
**CONFIRMATION SAMPLING (ON-PAD)**

Red Hills Facility Pad 1  
Incident ID: nAPP2212768697  
API: 30-025-45383  
GPS Coordinates: 32.0858301, -103.6186257  
Lea County, New Mexico  
Kaiser-Francis Oil Company

04080120160

Feet

+

Flare

●

Confirmation Sample locations

—

High Pressure Flare Lines

■

Flare Containment

■

On-Pad Excavation Area

■

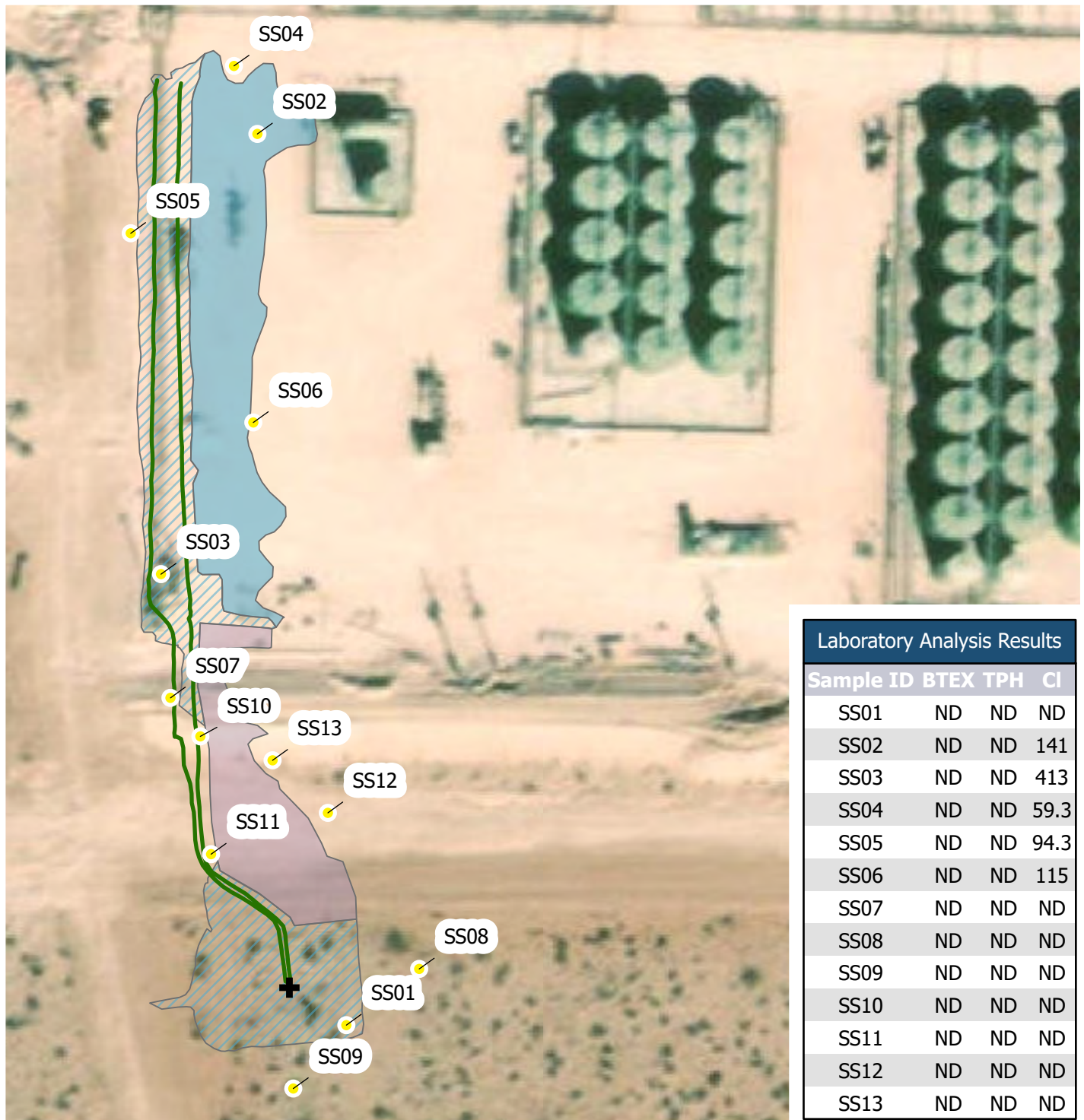
Area of Requested Deferral

W

WESCOM

Released to Imaging: 9/14/2022 11:01:04 AM





**FIGURE 4.**  
**AREA OF REQUESTED DEFERRAL**

0 50 100 150 200  
Feet

Red Hills Facility Pad 1  
Incident ID: nAPP2212768697  
API: 30-025-45383  
GPS Coordinates: 32.0858301, -103.6186257  
Lea County, New Mexico  
Kaiser-Francis Oil Company

#### LEGEND

- Delineation Sample Locations
- ⊕ Flare
- Flare Containment
- High Pressure Flare Lines
- On-Pad Spill Area
- Area of Requested Deferral





# TABLES



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**Red Hills Facility Pad 1** | Incident ID: nAPP2212768697

Red Hills Facility Pad 1   nAPP2212768697						
Kaiser-Francis Oil Company   09.09.2022						
Table 1. Laboratory Analysis Results: Delineation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
BG01	0	5/12/2022	ND	ND	ND	ND
BG01	1	5/12/2022	ND	ND	ND	ND
BG01	2	5/12/2022	ND	ND	ND	ND
SS01	11	5/16/2022	ND	ND	ND	ND
SS01	11.5	5/16/2022	ND	ND	ND	ND
SS02	1	6/7/2022	ND	ND	ND	141
SS03	2	6/7/2022	ND	ND	ND	413
SS04	0	6/7/2022	ND	ND	ND	59.3
SS05	0	6/7/2022	ND	ND	ND	94.3
SS06	0	6/7/2022	ND	ND	ND	115
SS07	0	6/7/2022	ND	ND	ND	ND
SS08	0	6/7/2022	ND	ND	ND	ND
SS09	0	6/7/2022	ND	ND	ND	ND
SS10	0	8/23/2022	ND	ND	ND	ND
SS11	0	8/23/2022	ND	ND	ND	ND
SS12	0	8/23/2022	ND	ND	ND	ND
SS13	0	8/23/2022	ND	ND	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						



Red Hills Facility Pad 1   nAPP2212768697						
Kaiser-Francis Oil Company   09.09.2022						
Table 2. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
CONF01	1	5/13/2022	ND	ND	ND	85.1
CONF02	1.5	5/13/2022	ND	ND	ND	54.1
CONF03	1.5	5/13/2022	ND	ND	ND	ND
CONF04	1.5	5/13/2022	ND	ND	ND	142
CONF05	2.5	5/13/2022	ND	ND	ND	92.2
CONF06	2.5	5/13/2022	ND	ND	ND	74.9
CONF07	1.5	5/13/2022	ND	ND	ND	ND
CONF08	1.5	5/13/2022	ND	ND	ND	59.7
CONF09	1.5	5/13/2022	ND	ND	ND	38.4
CONF10	1.5	5/13/2022	ND	ND	ND	309
CONF11	4	5/13/2022	ND	ND	ND	ND
CONF12	2	5/16/2022	ND	ND	ND	419
CONF13	2	5/16/2022	ND	ND	ND	ND
CONF14	2	5/16/2022	ND	ND	ND	ND
CONF15	2	5/16/2022	ND	ND	ND	26.3
CONF16	1.5	5/16/2022	ND	ND	ND	ND
CONF17	1.5	5/16/2022	ND	ND	ND	ND
CONF18	1.5	5/16/2022	ND	ND	ND	ND
CONF19	1.5	5/16/2022	ND	ND	ND	ND
CONF20	1.5	5/16/2022	ND	ND	ND	ND
CONF21	1.5	5/16/2022	ND	ND	ND	ND
CONF22	1.5	5/16/2022	ND	ND	ND	91.3
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						



Red Hills Facility Pad 1   nAPP2212768697						
Kaiser-Francis Oil Company   09.09.2022						
Table 2. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
CONF23	1.5	5/16/2022	ND	ND	ND	538
CONF24	1.5	5/16/2022	ND	ND	ND	ND
CONF25	1.5	5/16/2022	ND	ND	ND	ND
CONF25	1.5	7/14/2022	ND	ND	ND	24.5
CONF26	1.5	7/14/2022	ND	ND	ND	389
CONF27	1.5	7/14/2022	ND	ND	ND	30.6
CONF28	1.5	7/14/2022	ND	ND	ND	53.7
CONF29	1.5	7/14/2022	ND	ND	ND	61.3
CONF30	1.5	7/14/2022	ND	ND	ND	76.7
CONF31	1.5	7/14/2022	ND	ND	ND	103
CONF32	1.5	7/14/2022	ND	ND	ND	152
CONF33	1.5	7/14/2022	ND	ND	ND	47.4
CONF34	1.5	7/14/2022	ND	ND	ND	128
CONF35	1.5	7/14/2022	ND	ND	ND	30.5
CONF36	1.5	7/14/2022	ND	ND	ND	141
CONF37	1.5	7/14/2022	ND	ND	ND	376
CONF38	1.5	7/14/2022	ND	ND	ND	481
CONF39	1	7/14/2022	ND	ND	ND	285
CONF40	4.5	7/15/2022	ND	ND	ND	587
CONF41	5	7/15/2022	ND	ND	ND	532
CONF42	5	7/15/2022	ND	ND	ND	629
CONF42	5.5	7/19/2022	ND	ND	ND	402
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						



Red Hills Facility Pad 1   nAPP2212768697						
Kaiser-Francis Oil Company   09.09.2022						
Table 2. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
CONF43	2.5	7/15/2022	ND	ND	ND	653
CONF43	4	7/18/2022	ND	ND	ND	ND
CONF44	2	7/14/2022	ND	ND	ND	248
CONF45	2	7/14/2022	ND	ND	ND	214
CONF46 Wall	0.5	7/14/2022	ND	ND	ND	42.6
CONF47	3	8/18/2022	ND	ND	ND	66.2
CONF48	3	8/18/2022	ND	ND	ND	300
CONF49	3	8/18/2022	ND	ND	ND	32.3
CONF50	3	8/19/2022	ND	ND	ND	22.9
CONF51	3	8/19/2022	ND	ND	ND	ND
CONF52	3	8/19/2022	ND	ND	ND	ND
CONF53	3	8/23/2022	ND	ND	ND	ND
CONF54	3	8/23/2022	ND	ND	ND	81
CONF55	3	8/23/2022	ND	ND	ND	ND
CONF56	3	8/23/2022	ND	ND	ND	20
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



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**Red Hills Facility Pad 1** | Incident ID: nAPP2212768697

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	nAPP2212768697
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Kaiser-Francis Oil Company	OGRID 12361
Contact Name: Hutton Andrew	Contact Telephone: 918-491-4615
Contact email: huttona@kfoc.net	Incident # (assigned by OCD) nAPP2212768697
Contact mailing address: 6733 S. Yale, Tulsa, OK 74136	

### Location of Release Source

Latitude 32.0858301 Longitude -103.6186257  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Red Hills Facility Pad 1	Site Type: Well Pad
Date Release Discovered: 05/07/2022	API# (if applicable) 30-025-45383

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

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 1060	Volume Recovered (bbls) 980
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

An inlet to the free water knock-out was left open.

Spill volume calculation was done using the Spill Volume Calculator mobile application in conjunction with water tank volume data.

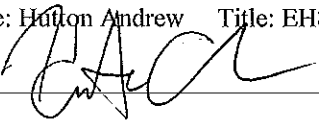
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2212768697
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  The produced water spill was >25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  Yes, via online NOR to the NMOCD on 5/7/22	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:          
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Hutton Andrew</u> Title: <u>EHS Representative</u> Signature: <u></u> Date: <u>05/19/22</u> email: <u>huttona@kfoc.net</u> Telephone: <u>918-491-4615</u>
<b><u>OCD Only</u></b> Received by: _____ Date: _____



Incident ID	nAPP2212768697
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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

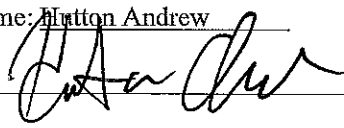
Form C-141

Page 4

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2212768697
District RP	
Facility ID	
Application ID	

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

Printed Name: Hutton AndrewTitle: EHS RepresentativeSignature: Date: 9/9/22email: huttona@kfoc.netTelephone: 918-491-4615**OCD Only**Received by: Jocelyn HarimonDate: 09/09/2022

Form C-141

Page 5

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2212768697
District RP	
Facility ID	
Application ID	

## Remediation Plan

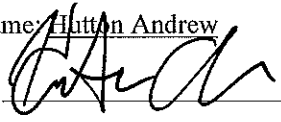
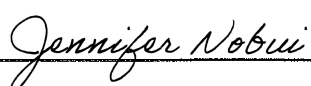
**Remediation Plan Checklist:** Each of the following items must be included in the plan.

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Hutton AndrewTitle: EHS RepresentativeSignature: Date: 9/9/22email: huttona@kfoc.netTelephone: 918-491-4615**OCD Only**Received by: Jocelyn Harimon Date: 09/09/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Date: 09/14/2022

# ATTACHMENT B

## Site Photos



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**Red Hills Facility Pad 1** | Incident ID: nAPP2212768697



Spill Area - On Pad



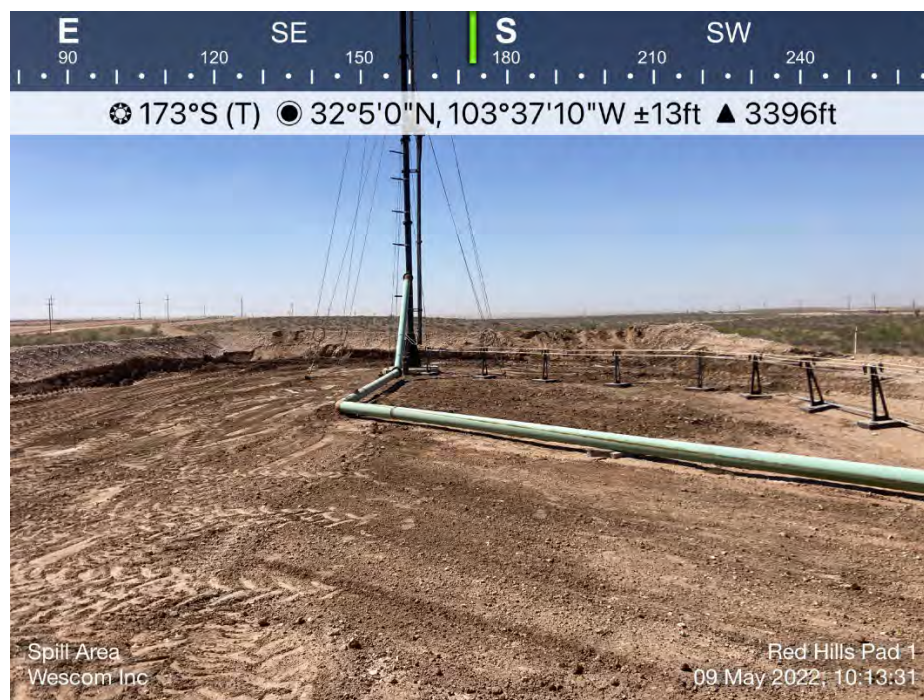
Spill Area - On Pad







Spill Area - On Pad



Spill Area - On Pad







Spill Area - Off Pad



Spill Area - Off Pad







Spill Area - Off Pad



Spill Area - Off Pad







Excavated Area - Off Pad



Excavated Area - Off Pad







Excavated Area - Off Pad



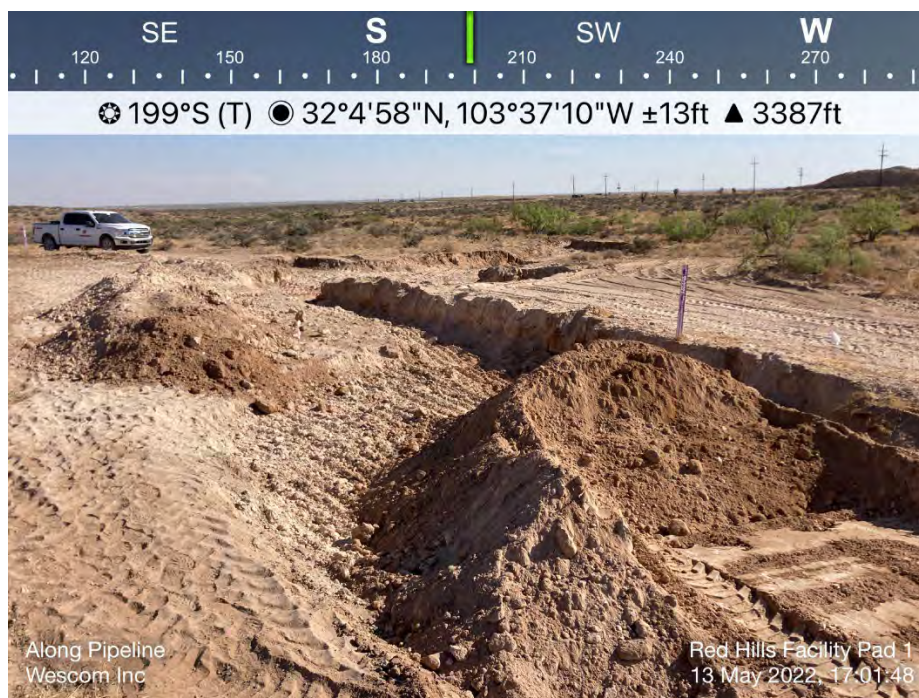
Excavated Area - Off Pad







Excavated Area - Off Pad



Excavated Area - Off Pad







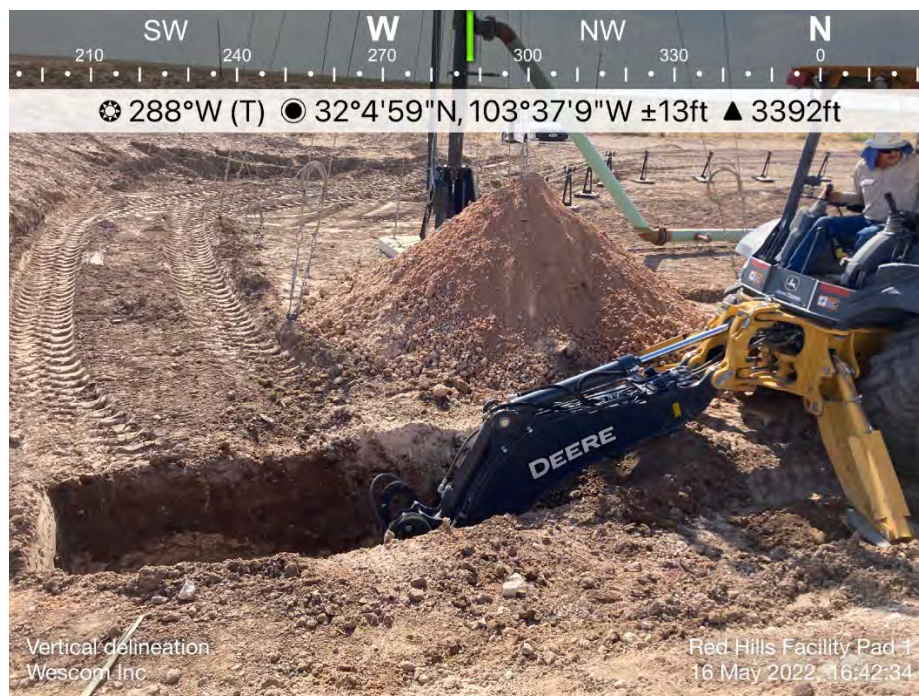
Excavated Area - Off Pad



Excavated Area - Off Pad







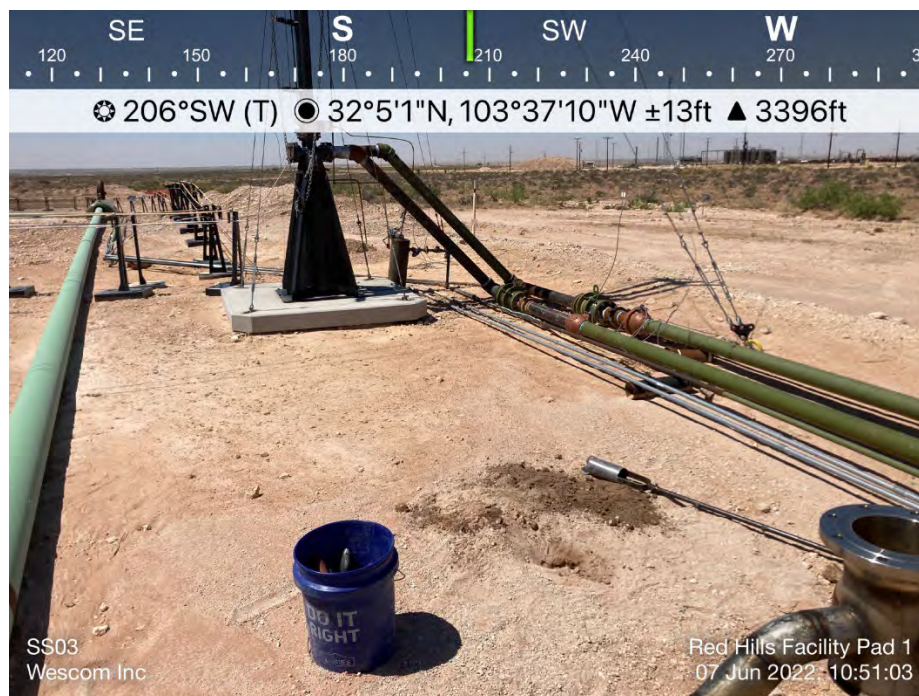
Vertical Delineation Sampling (SS01)



Vertical Delineation Sampling (SS02)







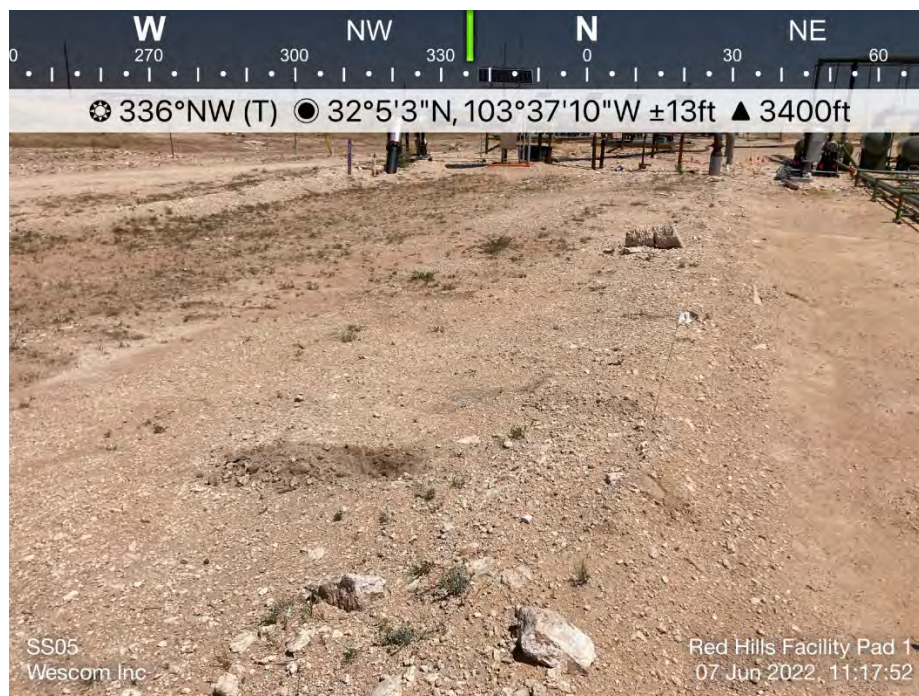
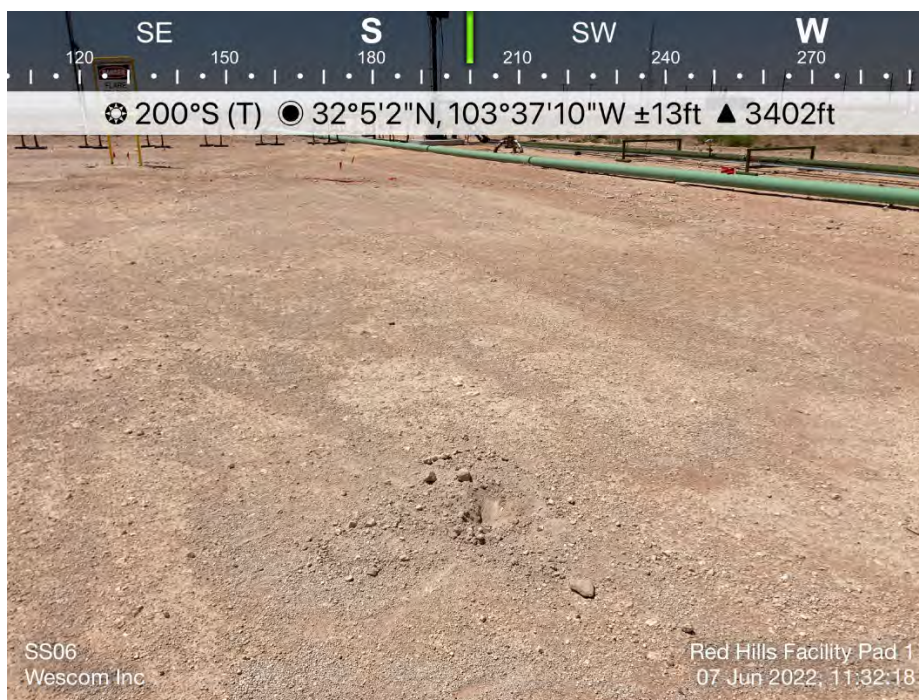
Vertical Delineation Sampling (SS03)



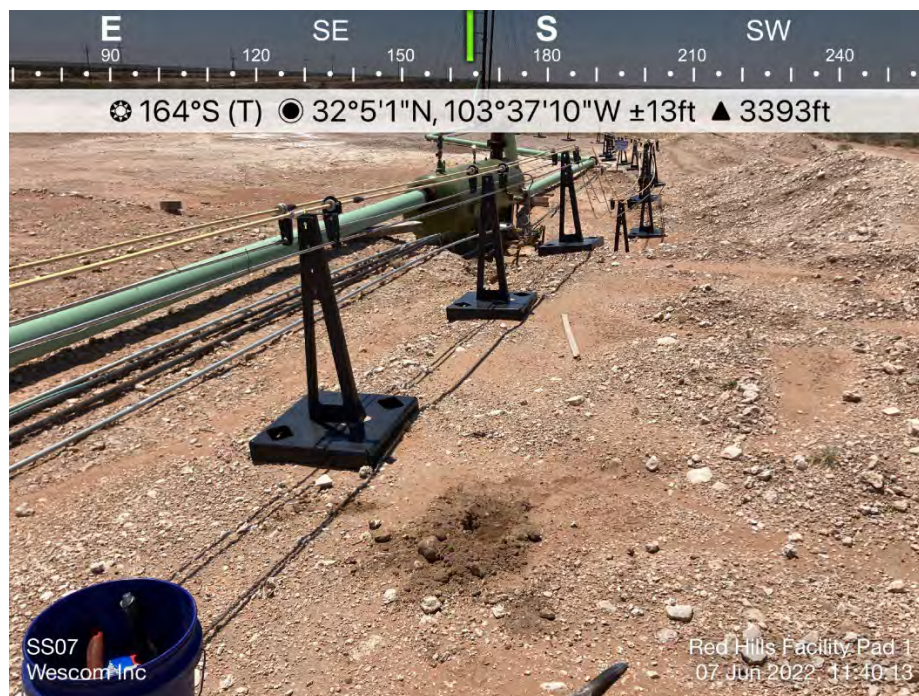
Horizontal Delineation Sampling (SS04)





*Horizontal Delineation Sampling (SS05)**Horizontal Delineation Sampling (SS06)*



*Horizontal Delineation Sampling (SS07)**Horizontal Delineation Sampling (SS08)*





Horizontal Delineation Sampling (SS09)



Excavated Area - On Pad







Excavated Area - On Pad



Excavated Area - On Pad







Excavated Area - On Pad



Excavated Area - On Pad Removal of Contaminated Soil







Excavation Around Electrical Line



Excavated Area - On Pad







Excavated Area - On Pad



Excavated Area - On Pad







Excavated Area - On Pad



Contaminated Soil







Excavated Area - On Pad



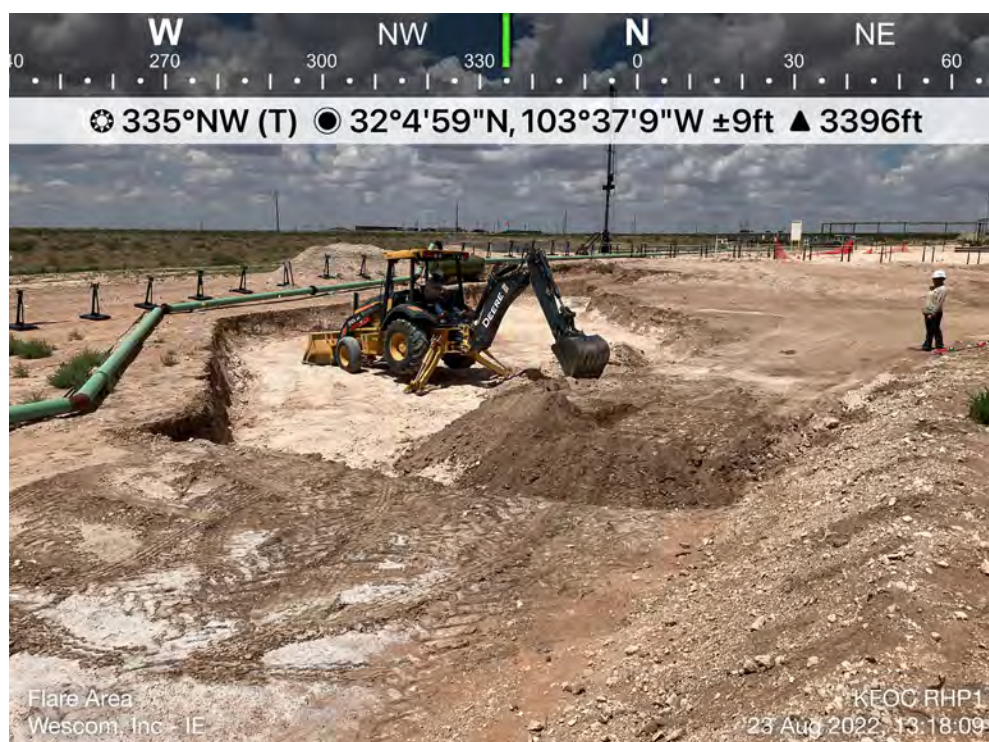
Excavated Area - On Pad







Flare Containment



Flare Containment







Completed Excavation - Flare Containment



# ATTACHMENT C

## Closure Criteria Supporting Documents



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**Red Hills Facility Pad 1** | Incident ID: nAPP2212768697



# 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	Y
20E6C	C 04537 POD1	4	4	4	31	25S	33E	631847	3550243

<b>Driller License:</b> 1706	<b>Driller Company:</b> ELITE DRILLERS CORPORATION
<b>Driller Name:</b> WALLACE, BRYCE J.LEE.NER	
<b>Drill Start Date:</b> 06/11/2021	<b>Drill Finish Date:</b> 06/12/2021
<b>Log File Date:</b> 06/21/2021	<b>PCW Rcv Date:</b>
<b>Pump Type:</b>	<b>Estimated Yield:</b> 5 GPM
<b>Casing Size:</b> 4.00	<b>Depth Well:</b> 500 feet
	<b>Depth Water:</b> 280 feet

Water Bearing Stratifications:	Top	Bottom	Description
	220	340	Sandstone/Gravel/Conglomerate





Casing Perforations:	Top	Bottom
	300	500



# Red Hills Facility Pad 1

Distance to Nearest Depth to Water = 1 Mile

## Legend

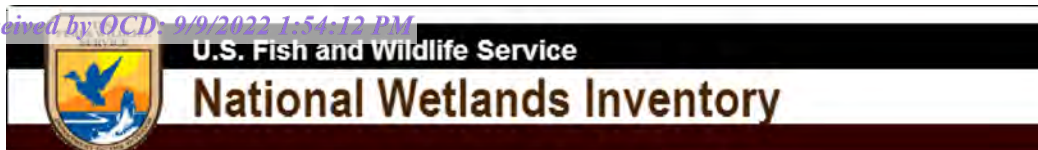
-  Distance = 1 Mile
-  DTW = 280ft - C 04537 POD1
-  Point of Release
-  Red Hills Facility Pad 1

Red Hills Facility Pad 1

DTW = 280ft - C 04537 POD1







## Red Hills Federal 101H - Riverine 982 ft.



May 11, 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 101H - FW Pond 10,511 ft.



May 11, 2022

## Wetlands

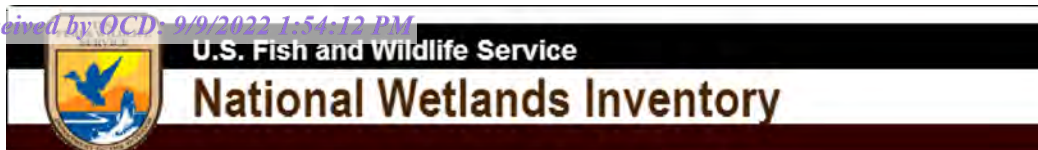
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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 101H - Wetland 3,008 ft.



May 11, 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 Facility Pad 1

Distance to Nearest Residence = 5.48 Miles

## Legend

-  Distance = 5.48 Miles
-  Nearest Residence
-  Red Hills Facility Pad 1
-  Station

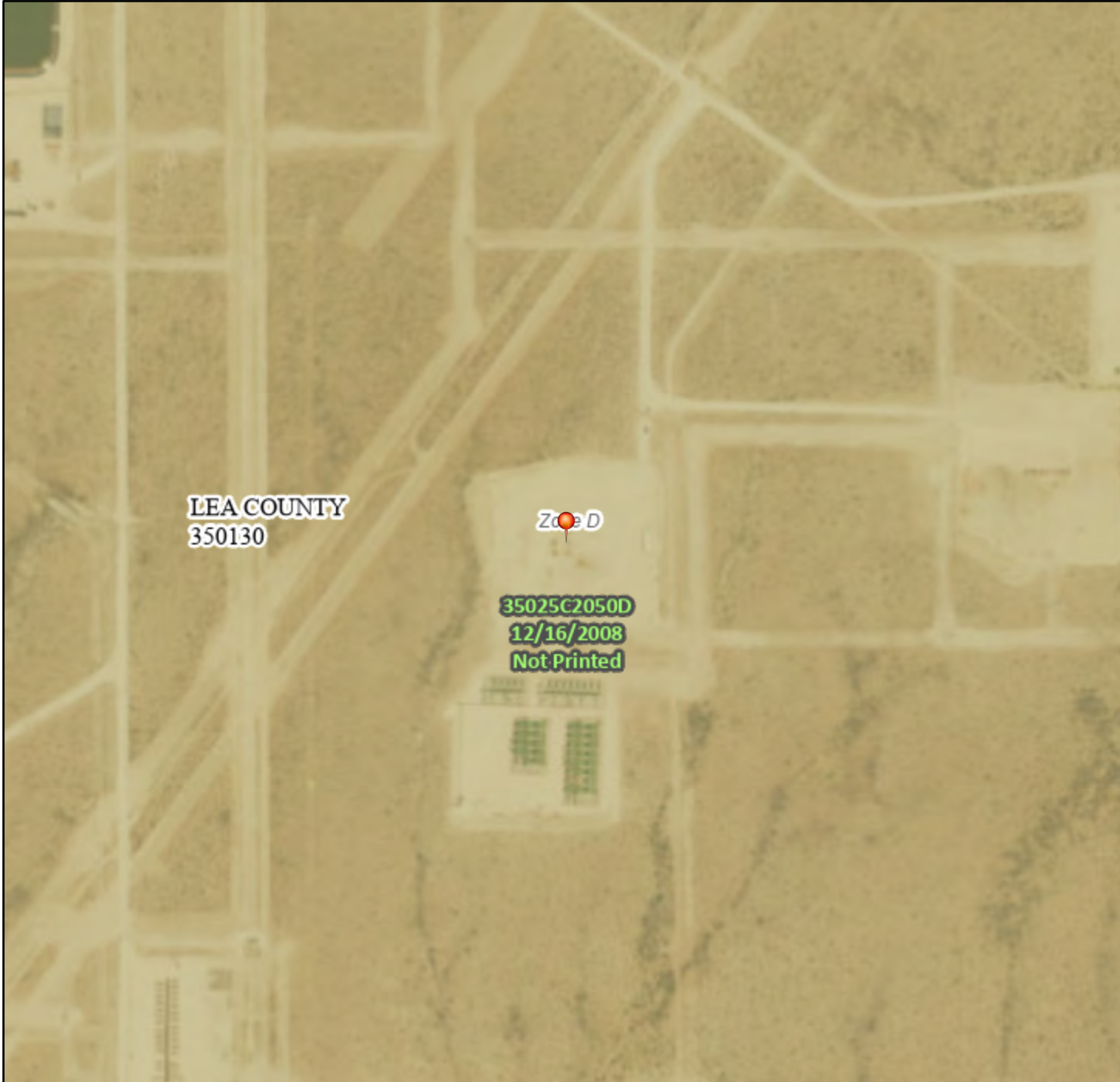




# National Flood Hazard Layer FIRMMette



103°37'26"W 32°5'24"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		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
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

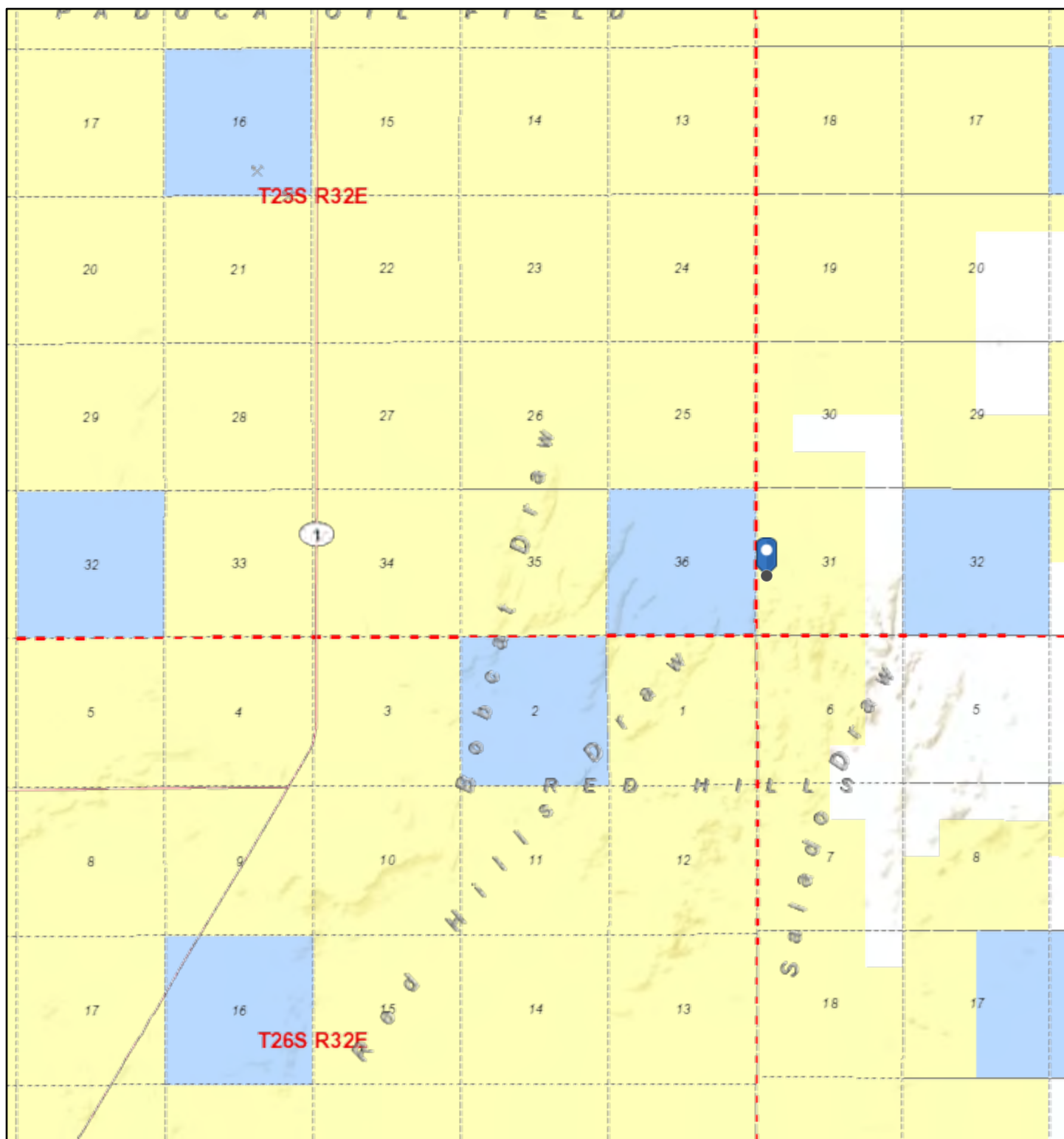
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/11/2022 at 3:08 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.

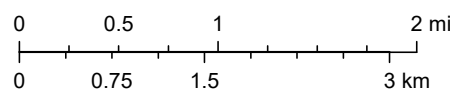
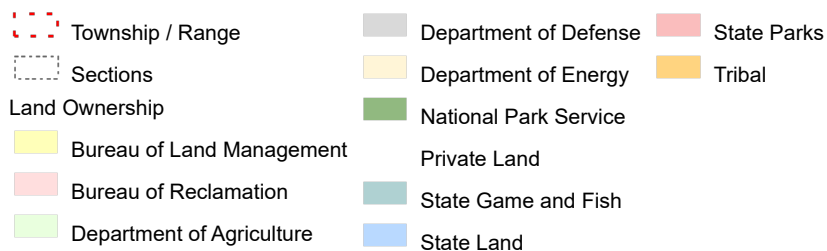


## Active Mines Near Red Hills Federal 101H



5/11/2022, 1:06:51 PM

1:72,224



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

# ATTACHMENT D

## Karst Map



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**Red Hills Facility Pad 1** | Incident ID: nAPP2212768697



# Red Hills Facility Pad 1

Karst Potential = Medium

## Legend

- 01 Low
- 02 Medium
- 03 High
- Point of Release
- Red Hills Facility Pad 1

Red Hills Facility Pad 1



# ATTACHMENT E

## Envirotech Inc. Laboratory Analysis Reports



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**Red Hills Facility Pad 1** | Incident ID: nAPP2212768697



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 1 05.07.22  
Spill

Work Order: E205057

Job Number: 21022-0001

Received: 5/13/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/16/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 5/16/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Workorder: E205057  
Date Received: 5/13/2022 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/13/2022 8:15:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 Spill 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BG01 - 0'	5
BG01 - 1'	6
BG01 - 2'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

**Sample Summary**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/16/22 14:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 - 0'	E205057-01A	Soil	05/12/22	05/13/22	Glass Jar, 4 oz.
BG01 - 1'	E205057-02A	Soil	05/12/22	05/13/22	Glass Jar, 4 oz.
BG01 - 2'	E205057-03A	Soil	05/12/22	05/13/22	Glass Jar, 4 oz.





## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/16/2022 2:24:29PM
---	---	---

## BG01 - 0'

## E205057-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2220047	
Benzene	ND	0.0250	1	05/13/22	05/13/22	
Ethylbenzene	ND	0.0250	1	05/13/22	05/13/22	
Toluene	ND	0.0250	1	05/13/22	05/13/22	
o-Xylene	ND	0.0250	1	05/13/22	05/13/22	
p,m-Xylene	ND	0.0500	1	05/13/22	05/13/22	
Total Xylenes	ND	0.0250	1	05/13/22	05/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		05/13/22	05/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2220047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/22	05/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.8 %	70-130		05/13/22	05/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2220050	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/22	05/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/22	05/13/22	
<i>Surrogate: n-Nonane</i>	94.6 %	50-200		05/13/22	05/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2220048	
Chloride	ND	20.0	1	05/13/22	05/13/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/16/2022 2:24:29PM

## BG01 - 1'

## E205057-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2220047
Benzene	ND	0.0250	1	05/13/22	05/13/22	
Ethylbenzene	ND	0.0250	1	05/13/22	05/13/22	
Toluene	ND	0.0250	1	05/13/22	05/13/22	
o-Xylene	ND	0.0250	1	05/13/22	05/13/22	
p,m-Xylene	ND	0.0500	1	05/13/22	05/13/22	
Total Xylenes	ND	0.0250	1	05/13/22	05/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		05/13/22	05/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2220047
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/22	05/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.4 %	70-130		05/13/22	05/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2220050
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/22	05/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/22	05/13/22	
<i>Surrogate: n-Nonane</i>						
	92.4 %	50-200		05/13/22	05/13/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2220048
Chloride	ND	20.0	1	05/13/22	05/13/22	





## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/16/2022 2:24:29PM
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BG01 - 2'

E205057-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2220047	
Benzene	ND	0.0250	1	05/13/22	05/13/22	
Ethylbenzene	ND	0.0250	1	05/13/22	05/13/22	
Toluene	ND	0.0250	1	05/13/22	05/13/22	
o-Xylene	ND	0.0250	1	05/13/22	05/13/22	
p,m-Xylene	ND	0.0500	1	05/13/22	05/13/22	
Total Xylenes	ND	0.0250	1	05/13/22	05/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.0 %	70-130		05/13/22	05/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2220047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/22	05/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.7 %	70-130		05/13/22	05/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2220050	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/22	05/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/22	05/13/22	
<i>Surrogate: n-Nonane</i>	90.9 %	50-200		05/13/22	05/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2220048	
Chloride	ND	20.0	1	05/13/22	05/13/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2022 2:24:29PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2220047-BLK1)

Prepared: 05/13/22 Analyzed: 05/13/22

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: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

## LCS (2220047-BS1)

Prepared: 05/13/22 Analyzed: 05/13/22

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.57	0.0500	10.0		95.7	70-130			
Total Xylenes	14.4	0.0250	15.0		96.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

## LCS Dup (2220047-BSD1)

Prepared: 05/13/22 Analyzed: 05/13/22

Benzene	4.92	0.0250	5.00		98.4	70-130	3.68	20	
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130	4.91	20	
Toluene	5.04	0.0250	5.00		101	70-130	4.23	20	
o-Xylene	5.08	0.0250	5.00		102	70-130	4.64	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	4.95	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	4.84	20	
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2022 2:24:29PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2220047-BLK1)

Prepared: 05/13/22 Analyzed: 05/13/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

## LCS (2220047-BS2)

Prepared: 05/13/22 Analyzed: 05/13/22

Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

## LCS Dup (2220047-BSD2)

Prepared: 05/13/22 Analyzed: 05/13/22

Gasoline Range Organics (C6-C10)	55.4	20.0	50.0		111	70-130	2.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2022 2:24:29PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2220050-BLK1)

Prepared: 05/13/22 Analyzed: 05/13/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	44.1		50.0		88.1	50-200			

## LCS (2220050-BS1)

Prepared: 05/13/22 Analyzed: 05/13/22

Diesel Range Organics (C10-C28)	489	25.0	500		97.9	38-132			
Surrogate: <i>n</i> -Nonane	51.1		50.0		102	50-200			

## Matrix Spike (2220050-MS1)

Source: E205058-08

Prepared: 05/13/22 Analyzed: 05/13/22

Diesel Range Organics (C10-C28)	435	25.0	500	ND	87.1	38-132			
Surrogate: <i>n</i> -Nonane	50.8		50.0		102	50-200			

## Matrix Spike Dup (2220050-MSD1)

Source: E205058-08

Prepared: 05/13/22 Analyzed: 05/13/22

Diesel Range Organics (C10-C28)	492	25.0	500	ND	98.3	38-132	12.2	20	
Surrogate: <i>n</i> -Nonane	52.2		50.0		104	50-200			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2022 2:24:29PM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2220048-BLK1)

Prepared: 05/13/22 Analyzed: 05/13/22

Chloride	ND	20.0							
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## LCS (2220048-BS1)

Prepared: 05/13/22 Analyzed: 05/13/22

Chloride	249	20.0	250		99.5	90-110			
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## Matrix Spike (2220048-MS1)

Source: E205052-01

Prepared: 05/13/22 Analyzed: 05/13/22

Chloride	370	20.0	250	136	93.8	80-120			
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## Matrix Spike Dup (2220048-MSD1)

Source: E205052-01

Prepared: 05/13/22 Analyzed: 05/13/22

Chloride	403	20.0	250	136	107	80-120	8.41	20	
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## 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 Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/16/22 14:24

- 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.





Page 13 of 14

## Envirotech Analytical Laboratory

Printed: 5/13/2022 9:51:21AM

## 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:	05/13/22 08:15	Work Order ID:	E205057
Phone:	(505) 382-1211	Date Logged In:	05/13/22 08:19	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	05/13/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

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

Date



envirotech Inc.



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 1 05.07.22  
Spill

Work Order: E205083

Job Number: 21022-0001

Received: 5/18/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/24/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 5/24/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Workorder: E205083  
Date Received: 5/18/2022 11:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/18/2022 11:00:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 Spill 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CONF01 - 1'	6
CONF02 - 1.5'	7
CONF03 - 1.5'	8
CONF04 - 1.5'	9
CONF05 - 2.5'	10
CONF06 - 2.5'	11
CONF07 - 1.5'	12
CONF08 - 1.5'	13
CONF09 - 1.5'	14
CONF10 - 1.5'	15
CONF11 - 4'	16
CONF12 - 2'	17
CONF13 - 2'	18
CONF14 - 2'	19
CONF15 - 2'	20
CONF16 - 1.5'	21
CONF17 - 1.5'	22
CONF18 - 1.5'	23
CONF19 - 1.5'	24
CONF20 - 1.5'	25

## Table of Contents (continued)

CONF21 - 1.5'	26
CONF22 - 1.5'	27
CONF23 - 1.5'	28
CONF24 - 1.5'	29
CONF25 - 1.5'	30
SS01 - 11'	31
SS01 - 11.5'	32
QC Summary Data	33
QC - Volatile Organics by EPA 8021B	33
QC - Nonhalogenated Organics by EPA 8015D - GRO	35
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	37
QC - Anions by EPA 300.0/9056A	39
Definitions and Notes	41
Chain of Custody etc.	42



## Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/24/22 14:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 1'	E205083-01A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF02 - 1.5'	E205083-02A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF03 - 1.5'	E205083-03A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF04 - 1.5'	E205083-04A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF05 - 2.5'	E205083-05A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF06 - 2.5'	E205083-06A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF07 - 1.5'	E205083-07A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF08 - 1.5'	E205083-08A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF09 - 1.5'	E205083-09A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF10 - 1.5'	E205083-10A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF11 - 4'	E205083-11A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF12 - 2'	E205083-12A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF13 - 2'	E205083-13A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF14 - 2'	E205083-14A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF15 - 2'	E205083-15A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF16 - 1.5'	E205083-16A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF17 - 1.5'	E205083-17A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF18 - 1.5'	E205083-18A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF19 - 1.5'	E205083-19A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF20 - 1.5'	E205083-20A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF21 - 1.5'	E205083-21A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF22 - 1.5'	E205083-22A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF23 - 1.5'	E205083-23A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF24 - 1.5'	E205083-24A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF25 - 1.5'	E205083-25A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
SS01 - 11'	E205083-26A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
SS01 - 11.5'	E205083-27A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/24/2022 2:44:48PM
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### CONF01 - 1'

#### E205083-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		05/19/22	05/19/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	85.1	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## CONF02 - 1.5'

## E205083-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
<i>Surrogate: n-Nonane</i>		116 %	50-200	05/19/22	05/19/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	54.1	20.0	1	05/19/22	05/20/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF03 - 1.5'

## E205083-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		05/19/22	05/19/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221041
Chloride	ND	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## CONF04 - 1.5'

## E205083-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.6 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
<i>Surrogate: n-Nonane</i>		113 %	50-200	05/19/22	05/19/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2221041
Chloride	142	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF05 - 2.5'

## E205083-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
<i>Surrogate: n-Nonane</i>						
		94.7 %	50-200	05/19/22	05/19/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221041
Chloride	92.2	20.0	1	05/19/22	05/20/22	





## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b> 5/24/2022 2:44:48PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## CONF06 - 2.5'

## E205083-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
<i>Surrogate: n-Nonane</i>		116 %	50-200	05/19/22	05/19/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	74.9	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b> 5/24/2022 2:44:48PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## CONF07 - 1.5'

## E205083-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>		116 %	50-200	05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	ND	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF08 - 1.5'

## E205083-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.1 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	59.7	20.0	1	05/19/22	05/20/22	





## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b> 5/24/2022 2:44:48PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## CONF09 - 1.5'

## E205083-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	38.4	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/24/2022 2:44:48PM
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## CONF10 - 1.5'

## E205083-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.6 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.4 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>	118 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	309	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF11 - 4'

## E205083-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.4 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.5 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>	117 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	ND	20.0	1	05/19/22	05/20/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF12 - 2'

## E205083-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.7 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.1 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>	117 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	419	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/24/2022 2:44:48PM
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## CONF13 - 2'

## E205083-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.2 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.4 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>	119 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	ND	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF14 - 2'

## E205083-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.9 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.6 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>	126 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	ND	20.0	1	05/19/22	05/20/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF15 - 2'

## E205083-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.8 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>						
		119 %	50-200	05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221041
Chloride	26.3	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF16 - 1.5'

## E205083-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221046	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>		95.5 %	50-200	05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221041	
Chloride	ND	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF17 - 1.5'

## E205083-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221041
Chloride	ND	20.0	1	05/19/22	05/20/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF18 - 1.5'

## E205083-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.1 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.0 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221041
Chloride	ND	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF19 - 1.5'

## E205083-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221041
Chloride	ND	20.0	1	05/19/22	05/20/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF20 - 1.5'

## E205083-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221041
Chloride	ND	20.0	1	05/19/22	05/20/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF21 - 1.5'

## E205083-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221040
Chloride	ND	20.0	1	05/19/22	05/19/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF22 - 1.5'

## E205083-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221036	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.7 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.5 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221044	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>	113 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221040	
Chloride	91.3	20.0	1	05/19/22	05/19/22	



## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## CONF23 - 1.5'

## E205083-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.8 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.3 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>		112 %	50-200	05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2221040
Chloride	538	20.0	1	05/19/22	05/19/22	





## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b> 5/24/2022 2:44:48PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## CONF24 - 1.5'

## E205083-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221036	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.6 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.5 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221044	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>	109 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221040	
Chloride	ND	20.0	1	05/19/22	05/19/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

## CONF25 - 1.5'

## E205083-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.9 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.9 %	70-130	05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221040
Chloride	ND	20.0	1	05/19/22	05/19/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
5/24/2022 2:44:48PM

SS01 - 11'

E205083-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.0 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2221040
Chloride	ND	20.0	1	05/19/22	05/19/22	





## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b> 5/24/2022 2:44:48PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SS01 - 11.5'

E205083-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221036	
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.5 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2221036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.6 %	70-130		05/19/22	05/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2221044	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
<i>Surrogate: n-Nonane</i>	113 %	50-200		05/19/22	05/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2221040	
Chloride	ND	20.0	1	05/19/22	05/19/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2221036-BLK1)

Prepared: 05/19/22 Analyzed: 05/23/22

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: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			

## LCS (2221036-BS1)

Prepared: 05/19/22 Analyzed: 05/23/22

Benzene	5.46	0.0250	5.00		109	70-130			
Ethylbenzene	5.40	0.0250	5.00		108	70-130			
Toluene	5.72	0.0250	5.00		114	70-130			
o-Xylene	5.32	0.0250	5.00		106	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
Total Xylenes	16.3	0.0250	15.0		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

## Matrix Spike (2221036-MS1)

Source: E205080-01

Prepared: 05/19/22 Analyzed: 05/23/22

Benzene	5.52	0.0250	5.00	ND	110	54-133			
Ethylbenzene	5.46	0.0250	5.00	ND	109	61-133			
Toluene	5.80	0.0250	5.00	ND	116	61-130			
o-Xylene	5.40	0.0250	5.00	ND	108	63-131			
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131			
Total Xylenes	16.5	0.0250	15.0	ND	110	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			

## Matrix Spike Dup (2221036-MSD1)

Source: E205080-01

Prepared: 05/19/22 Analyzed: 05/23/22

Benzene	5.82	0.0250	5.00	ND	116	54-133	5.29	20	
Ethylbenzene	5.78	0.0250	5.00	ND	116	61-133	5.71	20	
Toluene	6.11	0.0250	5.00	ND	122	61-130	5.27	20	
o-Xylene	5.70	0.0250	5.00	ND	114	63-131	5.38	20	
p,m-Xylene	11.7	0.0500	10.0	ND	117	63-131	5.70	20	
Total Xylenes	17.4	0.0250	15.0	ND	116	63-131	5.60	20	
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2221038-BLK1)

Prepared: 05/19/22 Analyzed: 05/23/22

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: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

## LCS (2221038-BS1)

Prepared: 05/19/22 Analyzed: 05/23/22

Benzene	5.05	0.0250	5.00		101	70-130			
Ethylbenzene	4.58	0.0250	5.00		91.7	70-130			
Toluene	4.84	0.0250	5.00		96.9	70-130			
o-Xylene	4.76	0.0250	5.00		95.1	70-130			
p,m-Xylene	9.46	0.0500	10.0		94.6	70-130			
Total Xylenes	14.2	0.0250	15.0		94.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.48		8.00		106	70-130			

## Matrix Spike (2221038-MS1)

Source: E205083-02

Prepared: 05/19/22 Analyzed: 05/23/22

Benzene	5.28	0.0250	5.00	ND	106	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103	70-130			

## Matrix Spike Dup (2221038-MSD1)

Source: E205083-02

Prepared: 05/19/22 Analyzed: 05/23/22

Benzene	5.33	0.0250	5.00	ND	107	54-133	0.890	20	
Ethylbenzene	4.83	0.0250	5.00	ND	96.7	61-133	1.31	20	
Toluene	5.11	0.0250	5.00	ND	102	61-130	1.13	20	
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	1.17	20	
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	63-131	1.40	20	
Total Xylenes	15.0	0.0250	15.0	ND	99.9	63-131	1.33	20	
Surrogate: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2221036-BLK1)

Prepared: 05/19/22 Analyzed: 05/23/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.6	70-130			

## LCS (2221036-BS2)

Prepared: 05/19/22 Analyzed: 05/23/22

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0		79.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.5	70-130			

## Matrix Spike (2221036-MS2)

Source: E205080-01

Prepared: 05/19/22 Analyzed: 05/23/22

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130			

## Matrix Spike Dup (2221036-MSD2)

Source: E205080-01

Prepared: 05/19/22 Analyzed: 05/24/22

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130	0.513	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.7	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2221038-BLK1)

Prepared: 05/19/22 Analyzed: 05/23/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

## LCS (2221038-BS2)

Prepared: 05/19/22 Analyzed: 05/23/22

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

## Matrix Spike (2221038-MS2)

Source: E205083-02

Prepared: 05/19/22 Analyzed: 05/23/22

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			

## Matrix Spike Dup (2221038-MSD2)

Source: E205083-02

Prepared: 05/19/22 Analyzed: 05/23/22

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130	1.85	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2221044-BLK1)

Prepared: 05/19/22 Analyzed: 05/19/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.7		50.0		105	50-200			

## LCS (2221044-BS1)

Prepared: 05/19/22 Analyzed: 05/19/22

Diesel Range Organics (C10-C28)	419	25.0	500		83.9	38-132			
Surrogate: n-Nonane	49.9		50.0		99.9	50-200			

## Matrix Spike (2221044-MS1)

Source: E205083-27

Prepared: 05/19/22 Analyzed: 05/19/22

Diesel Range Organics (C10-C28)	441	25.0	500	ND	88.3	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			

## Matrix Spike Dup (2221044-MSD1)

Source: E205083-27

Prepared: 05/19/22 Analyzed: 05/19/22

Diesel Range Organics (C10-C28)	440	25.0	500	ND	87.9	38-132	0.376	20	
Surrogate: n-Nonane	53.9		50.0		108	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2221046-BLK1)

Prepared: 05/19/22 Analyzed: 05/19/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	60.1		50.0		120	50-200			

## LCS (2221046-BS1)

Prepared: 05/19/22 Analyzed: 05/19/22

Diesel Range Organics (C10-C28)	487	25.0	500		97.5	38-132			
Surrogate: n-Nonane	58.0		50.0		116	50-200			

## Matrix Spike (2221046-MS1)

Source: E205083-11

Prepared: 05/19/22 Analyzed: 05/19/22

Diesel Range Organics (C10-C28)	501	25.0	500	ND	100	38-132			
Surrogate: n-Nonane	61.8		50.0		124	50-200			

## Matrix Spike Dup (2221046-MSD1)

Source: E205083-11

Prepared: 05/19/22 Analyzed: 05/19/22

Diesel Range Organics (C10-C28)	478	25.0	500	ND	95.5	38-132	4.72	20	
Surrogate: n-Nonane	60.1		50.0		120	50-200			





QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2221040-BLK1)					Prepared: 05/19/22 Analyzed: 05/19/22				
Chloride	ND	20.0							
LCS (2221040-BS1)					Prepared: 05/19/22 Analyzed: 05/19/22				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2221040-MS1)					Source: E205080-01		Prepared: 05/19/22 Analyzed: 05/19/22		
Chloride	326	20.0	250	67.7	103	80-120			
Matrix Spike Dup (2221040-MSD1)					Source: E205080-01		Prepared: 05/19/22 Analyzed: 05/19/22		
Chloride	325	20.0	250	67.7	103	80-120	0.304	20	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

## Anions by EPA 300.0/9056A

Analyst: KL

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

## Blank (2221041-BLK1)

Prepared: 05/19/22 Analyzed: 05/19/22

Chloride ND 20.0

## LCS (2221041-BS1)

Prepared: 05/19/22 Analyzed: 05/20/22

Chloride 261 20.0 250 105 90-110

## Matrix Spike (2221041-MS1)

Source: E205083-01

Prepared: 05/19/22 Analyzed: 05/20/22

Chloride 362 20.0 250 85.1 111 80-120

## Matrix Spike Dup (2221041-MSD1)

Source: E205083-01

Prepared: 05/19/22 Analyzed: 05/20/22

Chloride 354 20.0 250 85.1 108 80-120 2.26 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 Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/24/22 14:44

- 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.



20341627

Chain of Custody

Client: Envirotech Bill To: Envirotech

Project: 025/111 Attention: 025/111

Project Manager: 025/111 Address: 025/111

Address: 025/111 City, State, Zip: 025/111

City, State, Zip: 025/111 Phone: 025/111

Phone: 025/111 Email: 025/111

Email: 025/111 Report due by: 025/111

Lab Use Only

Lab WO# E205083 Job Number 210220001

Analysis and Method

1D 2D 3D Standard

EPA Program CWA SDWA

RCRA

State NM CO UT AZ TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRG/ORG by 8215	GRG/ORG by 8215	ITEX by 8021	VOC by 8263	Metals 6030	Chloride 8030	AN 3008B	XL 3008B	Remarks
1123	5/13/22	S	1	CONF01-1.5'	1									
1110	5/13/22	S	1	CONF02-1.5'	2									
1137	5/13/22	S	1	CONF03-1.5'	3									
205	5/13/22	S	1	CONF04-1.5'	4									
257	5/13/22	S	1	CONF05-2.5'	5									
223	5/13/22	S	1	CONF06-2.5'	6									
320	5/13/22	S	1	CONF07-1.5'	7									
327	5/13/22	S	1	CONF08-1.5'	8									
331	5/13/22	S	1	CONF09-1.5'	9									
355	5/13/22	S	1	CONF10-1.5'	10									

Additional Instructions: Preserved on ice; please use shar. harvester

col. burton and ashley.givens@wescaminc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) [Signature] Date 5/17/22 Time 10:57am

Received by: (Signature) [Signature] Date 5-17-22 Time 10:57am

Relinquished by: (Signature) [Signature] Date 5-17-22 Time 16:15

Received by: (Signature) [Signature] Date 5/18/22 Time 1100

Relinquished by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Sample Matrix: S - Soil, Sd - Solid, Sp - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

AVG Temp °C 4

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 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



2034629

Page 2 of 3

Client: Kaiser-Francis Oil Co.  
 Project: Red Hills Facility, Red 1  
 Project Manager: Ashley Givens  
 Address: 12241 Standpipe Rd  
 City, State, Zip: Carlsbad, NM 88220  
 Phone: 505-382-1211  
 Email: ashley.givens@wescam-inc.com  
 Report due by: inc.com

Bill To  
 Attention: wescam inc  
 Address: 12241 Standpipe Rd  
 City, State, Zip: Carlsbad, NM 88220  
 Phone: 505-382-1211  
 Email: ashley.givens@wescam-inc.com

Chain of Custody

Lab Use Only		TAT			EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA
<u>E205083</u>	<u>21022000</u>					
Analysis and Method						
TOC by 8010	GRD/DRO by 8015	BTEX by 8021	VOC by 8200	Metals 6010	Chloride 3000	
NM	CO	UT	AZ	TX	Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
505	5/13/22	S	1 jar	CONF11-4'	11
937	5/16/22	S	1 jar	CONF12-2'	12
941	5/16/22	S	1 jar	CONF13-2'	13
745	5/16/22	S	1 jar	CONF14-2'	14
1048	5/16/22	S	1 jar	CONF15-2'	15
1052	5/16/22	S	1 jar	CONF16-1.5'	16
1308	5/16/22	S	1 jar	CONF17-1.5'	17
1310	5/16/22	S	1 jar	CONF18-1.5'	18
1315	5/16/22	S	1 jar	CONF19-1.5'	19
1413	5/16/22	S	1 jar	CONF20-1.5'	20

Additional Instructions: preserved on ice, please cc shen.harvator

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) [Signature] Date: 5/17/22 Time: 10:57am

Received by: (Signature) [Signature] Date: 5-17-22 Time: 10:57am

Relinquished by: (Signature) [Signature] Date: 5-17-22 Time: 16:15

Received by: (Signature) [Signature] Date: 5/18/22 Time: 1100

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sample Matrix: S - Soil, sd - Solid, sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.



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## Envirotech Analytical Laboratory

Printed: 5/18/2022 11:21:42AM

## 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:	05/18/22 11:00	Work Order ID:	E205083
Phone:	(505) 382-1211	Date Logged In:	05/18/22 08:46	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	05/24/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 1 05.07.22  
Spill

Work Order: E206065

Job Number: 21022-0001

Received: 6/10/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/16/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 6/16/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Workorder: E206065  
Date Received: 6/10/2022 4:30:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/10/2022 4:30:00PM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 Spill 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS02 - 1'	5
SS03 - 2'	6
SS04 - 0'	7
SS05 - 0'	8
SS06 - 0'	9
SS07 - 0'	10
SS08 - 0'	11
SS09 - 0'	12
QC Summary Data	13
QC - Volatile Organics by EPA 8021B	13
QC - Nonhalogenated Organics by EPA 8015D - GRO	14
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	15
QC - Anions by EPA 300.0/9056A	16
Definitions and Notes	17
Chain of Custody etc.	18

## Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 06/16/22 11:09
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02 - 1'	E206065-01A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS03 - 2'	E206065-02A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS04 - 0'	E206065-03A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS05 - 0'	E206065-04A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS06 - 0'	E206065-05A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS07 - 0'	E206065-06A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS08 - 0'	E206065-07A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS09 - 0'	E206065-08A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/16/2022 11:09:36AM
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### SS02 - 1'

### E206065-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.2 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.9 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2225008	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
<i>Surrogate: n-Nonane</i>	105 %	50-200		06/14/22	06/15/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2225006	
Chloride	141	20.0	1	06/13/22	06/14/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/16/2022 11:09:36AM

SS03 - 2'

E206065-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.8 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.0 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2225008	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
<i>Surrogate: n-Nonane</i>	97.4 %	50-200		06/14/22	06/15/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2225006	
Chloride	413	20.0	1	06/13/22	06/14/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/16/2022 11:09:36AM

SS04 - 0'

E206065-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.5 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.1 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2225008	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
<i>Surrogate: n-Nonane</i>	105 %	50-200		06/14/22	06/15/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2225006	
Chloride	59.3	20.0	1	06/13/22	06/14/22	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/16/2022 11:09:36AM
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SS05 - 0'

E206065-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.4 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.3 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2225008	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
<i>Surrogate: n-Nonane</i>	105 %	50-200		06/14/22	06/15/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2225006	
Chloride	94.3	40.0	2	06/13/22	06/14/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/16/2022 11:09:36AM

SS06 - 0'

E206065-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.2 %	70-130	06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.0 %	70-130	06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	06/14/22	06/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225006
Chloride	115	20.0	1	06/13/22	06/14/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/16/2022 11:09:36AM

SS07 - 0'

E206065-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.2 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2225004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.2 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2225008	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
<i>Surrogate: n-Nonane</i>	105 %	50-200		06/14/22	06/15/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2225006	
Chloride	ND	20.0	1	06/13/22	06/14/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/16/2022 11:09:36AM

SS08 - 0'

E206065-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		06/14/22	06/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225006
Chloride	ND	20.0	1	06/13/22	06/14/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/16/2022 11:09:36AM

SS09 - 0'

E206065-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.2 %	70-130	06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.9 %	70-130	06/13/22	06/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	06/14/22	06/15/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2225006
Chloride	ND	20.0	1	06/13/22	06/14/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2225004-BLK1)

Prepared: 06/13/22 Analyzed: 06/14/22

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: 4-Bromochlorobenzene-PID	7.27		8.00		90.9	70-130			

## LCS (2225004-BS1)

Prepared: 06/13/22 Analyzed: 06/14/22

Benzene	5.17	0.0250	5.00		103	70-130			
Ethylbenzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.99	0.0250	5.00		99.8	70-130			
o-Xylene	4.88	0.0250	5.00		97.7	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.6	0.0250	15.0		97.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.4	70-130			

## Matrix Spike (2225004-MS1)

Source: E206064-02

Prepared: 06/13/22 Analyzed: 06/14/22

Benzene	5.57	0.0250	5.00	ND	111	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.38	0.0250	5.00	ND	108	61-130			
o-Xylene	5.27	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

## Matrix Spike Dup (2225004-MSD1)

Source: E206064-02

Prepared: 06/13/22 Analyzed: 06/14/22

Benzene	5.44	0.0250	5.00	ND	109	54-133	2.36	20	
Ethylbenzene	4.94	0.0250	5.00	ND	98.9	61-133	2.33	20	
Toluene	5.25	0.0250	5.00	ND	105	61-130	2.40	20	
o-Xylene	5.14	0.0250	5.00	ND	103	63-131	2.43	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	2.35	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	2.38	20	
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2225004-BLK1)

Prepared: 06/13/22 Analyzed: 06/14/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			

## LCS (2225004-BS2)

Prepared: 06/13/22 Analyzed: 06/14/22

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130			

## Matrix Spike (2225004-MS2)

Source: E206064-02

Prepared: 06/13/22 Analyzed: 06/14/22

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130			

## Matrix Spike Dup (2225004-MSD2)

Source: E206064-02

Prepared: 06/13/22 Analyzed: 06/14/22

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	1.91	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2225008-BLK1)

Prepared: 06/14/22 Analyzed: 06/14/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.4		50.0		98.8	50-200			

## LCS (2225008-BS1)

Prepared: 06/14/22 Analyzed: 06/14/22

Diesel Range Organics (C10-C28)	468	25.0	500		93.6	38-132			
Surrogate: <i>n</i> -Nonane	50.3		50.0		101	50-200			

## Matrix Spike (2225008-MS1)

Source: E206064-04

Prepared: 06/14/22 Analyzed: 06/14/22

Diesel Range Organics (C10-C28)	476	25.0	500	ND	95.3	38-132			
Surrogate: <i>n</i> -Nonane	50.6		50.0		101	50-200			

## Matrix Spike Dup (2225008-MSD1)

Source: E206064-04

Prepared: 06/14/22 Analyzed: 06/14/22

Diesel Range Organics (C10-C28)	471	25.0	500	ND	94.2	38-132	1.15	20	
Surrogate: <i>n</i> -Nonane	50.5		50.0		101	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2225006-BLK1)

Prepared: 06/13/22 Analyzed: 06/14/22

Chloride	ND	20.0							
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## LCS (2225006-BS1)

Prepared: 06/13/22 Analyzed: 06/14/22

Chloride	246	20.0	250		98.5	90-110			
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## Matrix Spike (2225006-MS1)

Source: E206064-01

Prepared: 06/13/22 Analyzed: 06/14/22

Chloride	298	20.0	250	39.9	103	80-120			
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## Matrix Spike Dup (2225006-MSD1)

Source: E206064-01

Prepared: 06/13/22 Analyzed: 06/14/22

Chloride	298	20.0	250	39.9	103	80-120	0.242	20	
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## 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 Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/16/22 11:09

- 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: Kaiser Francis Oil Co		Bill To		Lab Use Only		TAT		EPA Program					
Project: Red Hills Facility Pad 1 05.07.22 Spill		Attention: Wescom Inc		Lab WO# E2060605		Job Number 21022-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method		x				RCRA	
Address: 1224 Standpipe Rd		Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com									
City, State, Zip: Carlsbad, NM 88220													
Phone: 505-382-1211													
Email: ashley.giovengo@wescominc.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
9:41	6/7/22	Soil	1 Jar	SS02 - 1'	1							X		
10:30	6/7/22	Soil	1 Jar	SS03 - 2'	2							X		
11:00	6/7/22	Soil	1 Jar	SS04 - 0'	3							X		
11:13	6/7/22	Soil	1 Jar	SS05 - 0'	4							X		
11:26	6/7/22	Soil	1 Jar	SS06 - 0'	5							X		
11:39	6/7/22	Soil	1 Jar	SS07 - 0'	6							X		
11:51	6/7/22	Soil	1 Jar	SS08 - 0'	7							X		
11:55	6/7/22	Soil	1 Jar	SS09 - 0'	8							X		
												X		
												X		

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only		
<i>[Signature]</i>	06-09-22	11:18 am	<i>[Signature]</i>	6-9-22	11:18 am	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2	T3
<i>[Signature]</i>	6-9-22	4:15	<i>[Signature]</i>	6/10/22	16:30			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C 4		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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 Analytical Laboratory

Printed: 6/10/2022 5:28:03PM

## 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:	06/10/22 16:30	Work Order ID:	E206065
Phone:	(505) 382-1211	Date Logged In:	06/10/22 09:41	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	06/16/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 1 05.07.22  
Spill

Work Order: E207081

Job Number: 21022-0001

Received: 7/18/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/19/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 7/19/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Workorder: E207081  
Date Received: 7/18/2022 10:05:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/18/2022 10:05:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 Spill 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 regarding 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  
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## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CONF25 - 1.5'	6
CONF26 - 1.5'	7
CONF27 - 1.5'	8
CONF28 - 1.5'	9
CONF29 - 1.5'	10
CONF30 - 1.5'	11
CONF31 - 1.5'	12
CONF32 - 1.5'	13
CONF33 - 1.5'	14
CONF34 - 1.5'	15
CONF35 - 1.5'	16
CONF36 - 1.5'	17
CONF37 - 1.5'	18
CONF38 - 1.5'	19
CONF39 - 1'	20
CONF40 - 4.5'	21
CONF41 - 5'	22
CONF42 - 5'	23
CONF43 - 2.5'	24
CONF44 - 2'	25

## Table of Contents (continued)

CONF45 - 2'	26
CONF46Wall - .5'	27
QC Summary Data	28
QC - Volatile Organic Compounds by EPA 8260B	28
QC - Nonhalogenated Organics by EPA 8015D - GRO	30
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	32
QC - Anions by EPA 300.0/9056A	34
Definitions and Notes	37
Chain of Custody etc.	38

## Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 07/19/22 17:01
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF25 - 1.5'	E207081-01A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF26 - 1.5'	E207081-02A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF27 - 1.5'	E207081-03A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF28 - 1.5'	E207081-04A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF29 - 1.5'	E207081-05A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF30 - 1.5'	E207081-06A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF31 - 1.5'	E207081-07A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF32 - 1.5'	E207081-08A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF33 - 1.5'	E207081-09A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF34 - 1.5'	E207081-10A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF35 - 1.5'	E207081-11A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF36 - 1.5'	E207081-12A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF37 - 1.5'	E207081-13A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF38 - 1.5'	E207081-14A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF39 - 1'	E207081-15A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF40 - 4.5'	E207081-16A	Soil	07/15/22	07/18/22	Glass Jar, 4 oz.
CONF41 - 5'	E207081-17A	Soil	07/15/22	07/18/22	Glass Jar, 4 oz.
CONF42 - 5'	E207081-18A	Soil	07/15/22	07/18/22	Glass Jar, 4 oz.
CONF43 - 2.5'	E207081-19A	Soil	07/15/22	07/18/22	Glass Jar, 4 oz.
CONF44 - 2'	E207081-20A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF45 - 2'	E207081-21A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF46Wall - .5'	E207081-22A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/19/2022 5:01:15PM
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## CONF25 - 1.5'

## E207081-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2229094	
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
<i>Surrogate: Bromofluorobenzene</i>	94.6 %	70-130		07/15/22	07/18/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	110 %	70-130		07/15/22	07/18/22	
<i>Surrogate: Toluene-d8</i>	92.4 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2229094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
<i>Surrogate: Bromofluorobenzene</i>	94.6 %	70-130		07/15/22	07/18/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	110 %	70-130		07/15/22	07/18/22	
<i>Surrogate: Toluene-d8</i>	92.4 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2230009	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
<i>Surrogate: n-Nonane</i>	82.3 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2230012	
Chloride	24.5	20.0	1	07/18/22	07/18/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF26 - 1.5'

## E207081-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	94.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	91.9 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	94.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	91.9 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	80.7 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	389	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF27 - 1.5'

## E207081-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	106 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	106 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	117 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	30.6	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF28 - 1.5'

## E207081-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	96.0 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	96.0 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	97.8 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	53.7	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF29 - 1.5'

## E207081-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	105 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	105 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	85.0 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	61.3	20.0	1	07/18/22	07/18/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF30 - 1.5'

## E207081-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	119 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	76.7	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF31 - 1.5'

## E207081-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	66.3 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	103	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF32 - 1.5'

## E207081-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	77.2 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	152	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF33 - 1.5'

## E207081-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	106 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	47.4	20.0	1	07/18/22	07/18/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF34 -1.5'

## E207081-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	114 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	128	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF35 - 1.5'

## E207081-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/15/22	07/18/22	
Surrogate: Toluene-d8		106 %	70-130	07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		100 %	70-130	07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/15/22	07/18/22	
Surrogate: Toluene-d8		106 %	70-130	07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane		69.1 %	50-200	07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	30.5	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF36 - 1.5'

## E207081-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	104 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	78.2 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	141	100	5	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF37 - 1.5'

## E207081-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	94.5 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	91.3 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	94.5 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	91.3 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	71.8 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	376	20.0	1	07/18/22	07/18/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF38 - 1.5'

## E207081-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	91.8 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	91.8 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	92.8 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	481	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF39 - 1'

## E207081-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	95.3 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	93.2 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	95.3 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	93.2 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	82.8 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	285	20.0	1	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF40 - 4.5'

## E207081-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	94.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	93.6 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	94.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	93.6 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	85.5 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	587	200	10	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

CONF41 - 5'

E207081-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	92.5 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	92.5 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	84.0 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	532	200	10	07/18/22	07/18/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

CONF42 - 5'

E207081-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	93.2 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	93.2 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	82.9 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	629	200	10	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF43 - 2.5'

## E207081-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	92.1 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	92.1 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	71.3 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	653	200	10	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF44 - 2'

## E207081-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	93.1 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	92.1 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	93.1 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	92.1 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	84.9 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230012
Chloride	248	200	10	07/18/22	07/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

CONF45 - 2'

E207081-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229097
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	113 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	91.5 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229097
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	113 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	91.5 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	95.5 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230005
Chloride	214	200	10	07/18/22	07/18/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/19/2022 5:01:15PM

## CONF46Wall - .5'

## E207081-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229097
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	106 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229097
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8	106 %	70-130		07/15/22	07/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane	81.3 %	50-200		07/18/22	07/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230013
Chloride	42.6	20.0	1	07/18/22	07/18/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

## Blank (2229094-BLK1)

Prepared: 07/15/22 Analyzed: 07/18/22

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	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Surrogate: Toluene-d8	0.465		0.500		92.9	70-130			

## LCS (2229094-BS1)

Prepared: 07/15/22 Analyzed: 07/18/22

Benzene	2.39	0.0250	2.50		95.5	70-130			
Ethylbenzene	2.39	0.0250	2.50		95.7	70-130			
Toluene	2.36	0.0250	2.50		94.6	70-130			
o-Xylene	2.48	0.0250	2.50		99.2	70-130			
p,m-Xylene	4.83	0.0500	5.00		96.7	70-130			
Total Xylenes	7.31	0.0250	7.50		97.5	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.534		0.500		107	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.3	70-130			

## LCS Dup (2229094-BSD1)

Prepared: 07/15/22 Analyzed: 07/18/22

Benzene	2.48	0.0250	2.50		99.0	70-130	3.62	23	
Ethylbenzene	2.43	0.0250	2.50		97.4	70-130	1.70	27	
Toluene	2.43	0.0250	2.50		97.0	70-130	2.57	24	
o-Xylene	2.56	0.0250	2.50		102	70-130	3.04	27	
p,m-Xylene	5.00	0.0500	5.00		99.9	70-130	3.34	27	
Total Xylenes	7.55	0.0250	7.50		101	70-130	3.24	27	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.4	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2229097-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

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	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.3	70-130			

## LCS (2229097-BS1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.30	0.0250	2.50		92.0	70-130			
Ethylbenzene	2.42	0.0250	2.50		97.0	70-130			
Toluene	2.37	0.0250	2.50		94.7	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	4.93	0.0500	5.00		98.6	70-130			
Total Xylenes	7.44	0.0250	7.50		99.2	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

## LCS Dup (2229097-BSD1)

Prepared: 07/15/22 Analyzed: 07/19/22

Benzene	2.32	0.0250	2.50		92.8	70-130	0.909	23	
Ethylbenzene	2.41	0.0250	2.50		96.4	70-130	0.579	27	
Toluene	2.35	0.0250	2.50		94.2	70-130	0.551	24	
o-Xylene	2.53	0.0250	2.50		101	70-130	0.615	27	
p,m-Xylene	4.91	0.0500	5.00		98.2	70-130	0.417	27	
Total Xylenes	7.44	0.0250	7.50		99.1	70-130	0.0672	27	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2229094-BLK1)

Prepared: 07/15/22 Analyzed: 07/18/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Surrogate: Toluene-d8	0.465		0.500		92.9	70-130			

## LCS (2229094-BS2)

Prepared: 07/15/22 Analyzed: 07/18/22

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.7	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.3	70-130			

## LCS Dup (2229094-BSD2)

Prepared: 07/15/22 Analyzed: 07/18/22

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130	7.37	20	
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.3	70-130			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2229097-BLK1)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.3	70-130			

## LCS (2229097-BS2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.7	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			

## LCS Dup (2229097-BSD2)

Prepared: 07/15/22 Analyzed: 07/19/22

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.3	70-130	1.95	20	
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2230004-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.1		50.0		100	50-200			

## LCS (2230004-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	517	25.0	500		103	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

## Matrix Spike (2230004-MS1)

Source: E207080-04

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	566	25.0	500	ND	113	38-132			
Surrogate: n-Nonane	57.9		50.0		116	50-200			

## Matrix Spike Dup (2230004-MSD1)

Source: E207080-04

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	573	25.0	500	ND	115	38-132	1.29	20	
Surrogate: n-Nonane	58.2		50.0		116	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2230009-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			

## LCS (2230009-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	482	25.0	500		96.3	38-132			
Surrogate: n-Nonane	48.9		50.0		97.7	50-200			

## Matrix Spike (2230009-MS1)

Source: E207081-13

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	490	25.0	500	ND	98.0	38-132			
Surrogate: n-Nonane	49.8		50.0		99.5	50-200			

## Matrix Spike Dup (2230009-MSD1)

Source: E207081-13

Prepared: 07/18/22 Analyzed: 07/18/22

Diesel Range Organics (C10-C28)	545	25.0	500	ND	109	38-132	10.6	20	
Surrogate: n-Nonane	51.4		50.0		103	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2230005-BLK1)					Prepared: 07/18/22 Analyzed: 07/18/22				
Chloride	ND	20.0							
LCS (2230005-BS1)					Prepared: 07/18/22 Analyzed: 07/18/22				
Chloride	240	20.0	250		96.2	90-110			
Matrix Spike (2230005-MS1)					Source: E207073-01		Prepared: 07/18/22 Analyzed: 07/18/22		
Chloride	302	20.0	250	56.8	98.1	80-120			
Matrix Spike Dup (2230005-MSD1)					Source: E207073-01		Prepared: 07/18/22 Analyzed: 07/18/22		
Chloride	303	20.0	250	56.8	98.7	80-120	0.498	20	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2230012-BLK1)					Prepared: 07/18/22 Analyzed: 07/19/22				
Chloride	ND	20.0							
LCS (2230012-BS1)					Prepared: 07/18/22 Analyzed: 07/19/22				
Chloride	243	20.0	250		97.2	90-110			
Matrix Spike (2230012-MS1)					Source: E207081-01		Prepared: 07/18/22 Analyzed: 07/19/22		
Chloride	272	20.0	250	24.5	99.1	80-120			
Matrix Spike Dup (2230012-MSD1)					Source: E207081-01		Prepared: 07/18/22 Analyzed: 07/19/22		
Chloride	279	20.0	250	24.5	102	80-120	2.36	20	





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

## Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2230013-BLK1)

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride ND 20.0

## LCS (2230013-BS1)

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride 259 20.0 250 103 90-110

## Matrix Spike (2230013-MS1)

Source: E207082-01

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride 287 20.0 250 44.1 97.0 80-120

## Matrix Spike Dup (2230013-MSD1)

Source: E207082-01

Prepared: 07/18/22 Analyzed: 07/18/22

Chloride 283 20.0 250 44.1 95.4 80-120 1.38 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 Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/19/22 17:01

- 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: Kaiser Francis Oil Co		Bill To		Lab Use Only		TAT		EPA Program	
Project: Red Hills Facility Pad 1 05.07.22 Spill		Attention: Wescom Inc		Lab WO#		1D 2D 3D		CWA SDWA	
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd		E207081		Job Number		21022-001	
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method				RCRA	
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211							
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com							
Email: ashley.giovengo@wescominc.com									
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
1340	7/14	Soil	1 Jar	CONF25 - 1.5'	1							X		
1345	7/14	Soil	1 Jar	CONF26 - 1.5'	2							X		
1348	7/14	Soil	1 Jar	CONF27 - 1.5'	3							X		
1356	7/14	Soil	1 Jar	CONF28 - 1.5'	4							X		
1403	7/14	Soil	1 Jar	CONF29 - 1.5'	5							X		
1408	7/14	Soil	1 Jar	CONF30 - 1.5'	6							X		
925	7/14	Soil	1 Jar	CONF31 - 1.5'	7							X		
931	7/14	Soil	1 Jar	CONF32 - 1.5'	8							X		
938	7/14	Soil	1 Jar	CONF33 - 1.5'	9							X		
944	7/14	Soil	1 Jar	CONF34 - 1.5'	10							X		

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.				Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)	
7/15/22		1:38		7/15/22		1:30	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)	
7-15-22		4:15		7/18/22		10:05	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

Received by: 9/9/2022 11:01:04 AM

Received by: 9/9/2022 1:54:12 PM

Client: Kaiser Francis Oil Co					Bill To		Lab Use Only						TAT				EPA Program				
Project: Red Hills Facility Pad 1 05.07.22 Spill					Attention: Wescom Inc		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo					Address: 1224 Standpipe Rd		E207081		21022-0001		7										
Address: 1224 Standpipe Rd					City, State, Zip: Carlsbad, NM 88220		Analysis and Method										RCRA				
City, State, Zip: Carlsbad, NM 88220					Phone: 505-382-1211		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State						
Phone: 505-382-1211					Email: ashley.giovengo@wescominc.com										NM	CO	UT	AZ	TX		
Email: ashley.giovengo@wescominc.com																	Remarks				
Report due by:																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																
948	7/14	Soil	1 Jar	CONF35 - 1.5'	11								X								
948	7/14	Soil	1 Jar	CONF36 - 1.5'	12								X								
958	7/14	Soil	1 Jar	CONF37 - 1.5'	13								X								
1001	7/14	Soil	1 Jar	CONF38 - 1.5'	14								X								
1005	7/14	Soil	1 Jar	CONF39 - 1'	15								X								
1213	7/15	Soil	1 Jar	CONF40 - 4.5	16								X								
1110	7/15	Soil	1 Jar	CONF41 - 5'	17								X								
1039	7/15	Soil	1 Jar	CONF42 - 5'	18								X								
901	7/15	Soil	1 Jar	CONF43 - 2.5'	19								X								
1618	7/14	Soil	1 Jar	CONF44 - 2'	20								X								
Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only													
[Signature]		7/15/22	1:38	[Signature]		7-15-22	1:45	Received on ice: [Signature] N													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3													
[Signature]		7-15-22	4:15	[Signature]		7/18/22	10:05														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4													
[Signature]																					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
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 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.																					



Page 174 of 247

<b>Client:</b> Kaiser Francis Oil Co		<b>Bill To</b>	<b>Lab Use Only</b>							<b>TAT</b>				<b>EPA Program</b>			
<b>Project:</b> Red Hills Facility Pad 1 05.07.22 Spill		<b>Attention:</b> Wescom Inc	<b>Lab WO#</b>		<b>Job Number</b>					<b>1D</b>	<b>2D</b>	<b>3D</b>	<b>Standard</b>		<b>CWA</b>	<b>SDWA</b>	
<b>Project Manager:</b> Ashley Giovengo		<b>Address:</b> 1224 Standpipe Rd	E 207081		21022-001					/							
<b>Address:</b> 1224 Standpipe Rd		<b>City, State, Zip:</b> Carlsbad, NM 88220														<b>RCRA</b>	
<b>City, State, Zip:</b> Carlsbad, NM 88220		<b>Phone:</b> 505-382-1211															
<b>Phone:</b> 505-382-1211		<b>Email:</b> ashley.giovengo@wescominc.com															
<b>Email:</b> ashley.giovengo@wescominc.com																	
<b>Report due by:</b>																	

[illegible]

**Additional Instructions:** Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 7/14/22	Time 1:35	Received by: (Signature) <i>[Signature]</i>	Date 7-15-22	Time 14h	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 7-15-22	Time 4:15	Received by: (Signature) <i>[Signature]</i>	Date 7/15/22	Time 10:05	
Relinquished by: (Signature) <i>[Signature]</i>	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**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 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 Analytical Laboratory

Printed: 7/18/2022 10:42:59AM

## 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:	07/18/22 10:05	Work Order ID:	E207081
Phone:	(505) 382-1211	Date Logged In:	07/15/22 17:19	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	07/18/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 1 05.07.22  
Spill

Work Order: E207128

Job Number: 21022-0001

Received: 7/21/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/22/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 7/22/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Workorder: E207128  
Date Received: 7/21/2022 10:08:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/21/2022 10:08:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 Spill 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CONF42 - 5.5'	5
CONF43 - 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

**Sample Summary**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/22/22 15:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF42 - 5.5'	E207128-01A	Soil	07/19/22	07/21/22	Glass Jar, 4 oz.
CONF43 - 4'	E207128-02A	Soil	07/18/22	07/21/22	Glass Jar, 4 oz.





## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/22/2022 3:16:11PM
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## CONF42 - 5.5'

## E207128-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2230072	
Benzene	ND	0.0250	1	07/21/22	07/21/22	
Ethylbenzene	ND	0.0250	1	07/21/22	07/21/22	
Toluene	ND	0.0250	1	07/21/22	07/21/22	
o-Xylene	ND	0.0250	1	07/21/22	07/21/22	
p,m-Xylene	ND	0.0500	1	07/21/22	07/21/22	
Total Xylenes	ND	0.0250	1	07/21/22	07/21/22	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		07/21/22	07/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2230072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/21/22	07/21/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		07/21/22	07/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2230070	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/21/22	07/21/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/21/22	07/21/22	
Surrogate: n-Nonane	75.1 %	50-200		07/21/22	07/21/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2230083	
Chloride	402	200	10	07/21/22	07/21/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
7/22/2022 3:16:11PM

CONF43 - 4'

E207128-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230072
Benzene	ND	0.0250	1	07/21/22	07/21/22	
Ethylbenzene	ND	0.0250	1	07/21/22	07/21/22	
Toluene	ND	0.0250	1	07/21/22	07/21/22	
o-Xylene	ND	0.0250	1	07/21/22	07/21/22	
p,m-Xylene	ND	0.0500	1	07/21/22	07/21/22	
Total Xylenes	ND	0.0250	1	07/21/22	07/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	07/21/22	07/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2230072
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/21/22	07/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.0 %	70-130	07/21/22	07/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2230070
Diesel Range Organics (C10-C28)	ND	25.0	1	07/21/22	07/21/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/21/22	07/21/22	
<i>Surrogate: n-Nonane</i>						
		83.3 %	50-200	07/21/22	07/21/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2230083
Chloride	ND	200	10	07/21/22	07/21/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/22/2022 3:16:11PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2230072-BLK1)

Prepared: 07/21/22 Analyzed: 07/21/22

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: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

## LCS (2230072-BS1)

Prepared: 07/21/22 Analyzed: 07/21/22

Benzene	4.77	0.0250	5.00		95.3	70-130			
Ethylbenzene	4.12	0.0250	5.00		82.4	70-130			
Toluene	4.46	0.0250	5.00		89.2	70-130			
o-Xylene	4.42	0.0250	5.00		88.4	70-130			
p,m-Xylene	8.51	0.0500	10.0		85.1	70-130			
Total Xylenes	12.9	0.0250	15.0		86.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	70-130			

## LCS Dup (2230072-BS1)

Prepared: 07/21/22 Analyzed: 07/21/22

Benzene	4.89	0.0250	5.00		97.9	70-130	2.65	20	
Ethylbenzene	4.22	0.0250	5.00		84.5	70-130	2.51	20	
Toluene	4.58	0.0250	5.00		91.7	70-130	2.69	20	
o-Xylene	4.54	0.0250	5.00		90.8	70-130	2.61	20	
p,m-Xylene	8.72	0.0500	10.0		87.2	70-130	2.43	20	
Total Xylenes	13.3	0.0250	15.0		88.4	70-130	2.49	20	
Surrogate: 4-Bromochlorobenzene-PID	8.24		8.00		103	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/22/2022 3:16:11PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2230072-BLK1)

Prepared: 07/21/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

## LCS (2230072-BS2)

Prepared: 07/21/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

## LCS Dup (2230072-BSD2)

Prepared: 07/21/22 Analyzed: 07/21/22

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130	1.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/22/2022 3:16:11PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2230070-BLK1)

Prepared: 07/21/22 Analyzed: 07/21/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	37.2		50.0		74.4	50-200			

## LCS (2230070-BS1)

Prepared: 07/21/22 Analyzed: 07/21/22

Diesel Range Organics (C10-C28)	189	25.0	250		75.4	38-132			
Surrogate: <i>n</i> -Nonane	33.5		50.0		67.1	50-200			

## Matrix Spike (2230070-MS1)

Source: E207116-02

Prepared: 07/21/22 Analyzed: 07/21/22

Diesel Range Organics (C10-C28)	760	250	250	524	94.5	38-132			
Surrogate: <i>n</i> -Nonane	42.6		50.0		85.3	50-200			

## Matrix Spike Dup (2230070-MSD1)

Source: E207116-02

Prepared: 07/21/22 Analyzed: 07/21/22

Diesel Range Organics (C10-C28)	844	250	250	524	128	38-132	10.4	20	
Surrogate: <i>n</i> -Nonane	47.6		50.0		95.2	50-200			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/22/2022 3:16:11PM

## Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2230083-BLK1)

Prepared: 07/21/22 Analyzed: 07/21/22

Chloride	ND	20.0
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## LCS (2230083-BS1)

Prepared: 07/21/22 Analyzed: 07/21/22

Chloride	250	20.0	250	99.8	90-110
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## Matrix Spike (2230083-MS1)

Source: E207128-01

Prepared: 07/21/22 Analyzed: 07/21/22

Chloride	742	200	250	402	136	80-120	M2
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## Matrix Spike Dup (2230083-MSD1)

Source: E207128-01

Prepared: 07/21/22 Analyzed: 07/21/22

Chloride	565	200	250	402	65.2	80-120	27.0	20	M2
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## 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 Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/22/22 15:16

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.



Page 12 of 13

## Envirotech Analytical Laboratory

Printed: 7/21/2022 2:06:43PM

## 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:	07/21/22 10:08	Work Order ID:	E207128
Phone:	(505) 382-1211	Date Logged In:	07/21/22 08:46	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	07/21/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

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

Date



envirotech Inc.



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 1 05.07.22  
Spill

Work Order: E208132

Job Number: 21022-0001

Received: 8/24/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/30/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 8/30/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Workorder: E208132  
Date Received: 8/24/2022 10:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/24/2022 10:30:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 Spill 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 regarding 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**  
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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CONF47 - 3'	5
CONF48 - 3'	6
CONF49 - 3'	7
CONF50 - 3'	8
CONF51 - 3'	9
CONF52 - 3'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

## Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/30/22 12:46
---	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF47 - 3'	E208132-01A	Soil	08/18/22	08/24/22	Glass Jar, 4 oz.
CONF48 - 3'	E208132-02A	Soil	08/18/22	08/24/22	Glass Jar, 4 oz.
CONF49 - 3'	E208132-03A	Soil	08/18/22	08/24/22	Glass Jar, 4 oz.
CONF50 - 3'	E208132-04A	Soil	08/19/22	08/24/22	Glass Jar, 4 oz.
CONF51 - 3'	E208132-05A	Soil	08/19/22	08/24/22	Glass Jar, 4 oz.
CONF52 - 3'	E208132-06A	Soil	08/19/22	08/24/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/30/2022 12:46:23PM
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## CONF47 - 3'

## E208132-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.5 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2235025	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/25/22	
<i>Surrogate: n-Nonane</i>		76.8 %	50-200	08/24/22	08/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2235036	
Chloride	66.2	20.0	1	08/24/22	08/25/22	



## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b> 8/30/2022 12:46:23PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

CONF48 - 3'

E208132-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.5 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2235025	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/25/22	
<i>Surrogate: n-Nonane</i>		80.7 %	50-200	08/24/22	08/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2235036	
Chloride	300	20.0	1	08/24/22	08/25/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
8/30/2022 12:46:23PM

CONF49 - 3'

E208132-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.4 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2235025	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/24/22	
<i>Surrogate: n-Nonane</i>		68.2 %	50-200	08/24/22	08/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2235036	
Chloride	32.3	20.0	1	08/24/22	08/25/22	



## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b> 8/30/2022 12:46:23PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## CONF50 - 3'

## E208132-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2235025	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/24/22	
<i>Surrogate: n-Nonane</i>		80.3 %	50-200	08/24/22	08/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2235036	
Chloride	22.9	20.0	1	08/24/22	08/25/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
8/30/2022 12:46:23PM

## CONF51 - 3'

## E208132-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235038
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.3 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2235025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/24/22	
<i>Surrogate: n-Nonane</i>						
		80.5 %	50-200	08/24/22	08/24/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2235036
Chloride	ND	20.0	1	08/24/22	08/25/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
8/30/2022 12:46:23PM

CONF52 - 3'

E208132-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235038
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	08/24/22	08/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2235025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/24/22	
<i>Surrogate: n-Nonane</i>						
		81.3 %	50-200	08/24/22	08/24/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2235036
Chloride	ND	20.0	1	08/24/22	08/25/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2235038-BLK1)

Prepared: 08/24/22 Analyzed: 08/24/22

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: 4-Bromochlorobenzene-PID	8.28		8.00		104	70-130			

## LCS (2235038-BS1)

Prepared: 08/24/22 Analyzed: 08/24/22

Benzene	4.57	0.0250	5.00		91.4	70-130			
Ethylbenzene	4.59	0.0250	5.00		91.8	70-130			
Toluene	4.69	0.0250	5.00		93.8	70-130			
o-Xylene	4.72	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	14.0	0.0250	15.0		93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.35		8.00		104	70-130			

## Matrix Spike (2235038-MS1)

Source: E208129-02

Prepared: 08/24/22 Analyzed: 08/24/22

Benzene	4.55	0.0250	5.00	ND	90.9	54-133			
Ethylbenzene	4.55	0.0250	5.00	ND	91.0	61-133			
Toluene	4.65	0.0250	5.00	ND	93.1	61-130			
o-Xylene	4.65	0.0250	5.00	ND	93.0	63-131			
p,m-Xylene	9.20	0.0500	10.0	ND	92.0	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		104	70-130			

## Matrix Spike Dup (2235038-MSD1)

Source: E208129-02

Prepared: 08/24/22 Analyzed: 08/24/22

Benzene	4.57	0.0250	5.00	ND	91.3	54-133	0.472	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	0.510	20	
Toluene	4.67	0.0250	5.00	ND	93.5	61-130	0.445	20	
o-Xylene	4.69	0.0250	5.00	ND	93.7	63-131	0.713	20	
p,m-Xylene	9.25	0.0500	10.0	ND	92.5	63-131	0.570	20	
Total Xylenes	13.9	0.0250	15.0	ND	92.9	63-131	0.618	20	
Surrogate: 4-Bromochlorobenzene-PID	8.29		8.00		104	70-130			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2235038-BLK1)

Prepared: 08/24/22 Analyzed: 08/24/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		8.00		100	70-130			

## LCS (2235038-BS2)

Prepared: 08/24/22 Analyzed: 08/24/22

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		86.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

## Matrix Spike (2235038-MS2)

Source: E208129-02

Prepared: 08/24/22 Analyzed: 08/24/22

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			

## Matrix Spike Dup (2235038-MSD2)

Source: E208129-02

Prepared: 08/24/22 Analyzed: 08/24/22

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130	4.79	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2235025-BLK1)

Prepared: 08/23/22 Analyzed: 08/24/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	40.7		50.0		81.5	50-200			

## LCS (2235025-BS1)

Prepared: 08/23/22 Analyzed: 08/24/22

Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: <i>n</i> -Nonane	35.7		50.0		71.4	50-200			

## Matrix Spike (2235025-MS1)

Source: E208123-03

Prepared: 08/23/22 Analyzed: 08/24/22

Diesel Range Organics (C10-C28)	8930	1250	250	8760	67.9	38-132			
Surrogate: <i>n</i> -Nonane	46.1		50.0		92.3	50-200			

## Matrix Spike Dup (2235025-MSD1)

Source: E208123-03

Prepared: 08/23/22 Analyzed: 08/24/22

Diesel Range Organics (C10-C28)	9260	1250	250	8760	201	38-132	3.67	20	M4
Surrogate: <i>n</i> -Nonane	46.1		50.0		92.2	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

## Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2235036-BLK1)

Prepared: 08/24/22 Analyzed: 08/25/22

Chloride	ND	20.0							
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## LCS (2235036-BS1)

Prepared: 08/24/22 Analyzed: 08/25/22

Chloride	253	20.0	250		101	90-110			
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## Matrix Spike (2235036-MS1)

Source: E208119-01

Prepared: 08/24/22 Analyzed: 08/25/22

Chloride	797	20.0	250	625	69.0	80-120			M2
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## Matrix Spike Dup (2235036-MSD1)

Source: E208119-01

Prepared: 08/24/22 Analyzed: 08/25/22

Chloride	791	20.0	250	625	66.5	80-120	0.795	20	M2
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## 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 Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/30/22 12:46

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. 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.



Released to Imaging: 9/14/2022 11:01:04 AM

Received by OCD: 9/9/2022 1:54:12 PM

Project Information

Chain of Custody

Page 1 of 1

PO# 38136

Client: Kaiser-Francis Oil Co. 05.07.22 Spill  
Project: Red Hills Facility pad 1  
Project Manager: Ashley Giovenso  
Address: 1224 Standpipe Rd  
City, State, Zip: Carlsbad, NM 88220  
Phone: 505-382-1211  
Email: ashley.giovenso@wescominc.com  
Report due by: \_\_\_\_\_

Bill To  
Attention: Wescom, Inc.  
Address: 1224 Standpipe Rd  
City, State, Zip: Carlsbad, NM 88220  
Phone: 505-382-1211  
Email: ashley.giovenso@wescominc.com

Lab Use Only  
Lab WO# 208132 Job Number 21022-001  
Analysis and Method  
DRO/ORO by 8015  
GRO/DRO by 8015  
BTEX by 8021  
VOC by 8260  
Metals 6010  
Chloride 300.0  
BGDOC NM  
BGDOC TX

TAT  
1D 2D 3D Standard  
X

EPA Program  
CWA SDWA  
RCRA  
State  
NM CO UT AZ TX  
X

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
11:05	08/18	Soil	1 jar	CONF47-3'	1							X		
11:11	08/18	Soil	1 jar	CONF48-3'	2							X		
14:04	08/18	Soil	1 jar	CONF49-3'	3							X		
07:50	08/19	Soil	1 jar	CONF50-3'	4							X		
13:25	08/19	Soil	1 jar	CONF51-3'	5							X		
13:35	08/19	Soil	1 jar	CONF52-3'	6							X		

Additional Instructions: Preserved on ice, please cc ashley.giovenso, cole.burton, israel.estrell  
a.shar.harvester@wescominc.com on results

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) [Signature] Date 08.23.2022 Time 12:00pm  
Received by: (Signature) [Signature] Date 8/24/22 Time 10:30

Relinquished by: (Signature) [Signature] Date 8/23/22 Time 4:11p  
Received by: (Signature) [Signature] Date 8/24/22 Time 10:30

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Received on ice: Y/N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.



Page 205 of 247



## Envirotech Analytical Laboratory

Printed: 8/24/2022 11:03:50AM

## 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:	08/24/22 10:30	Work Order ID:	E208132
Phone:	(505) 382-1211	Date Logged In:	08/24/22 10:03	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	08/30/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 1 05.07.22  
Spill

Work Order: E208169

Job Number: 21022-0001

Received: 8/31/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/2/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 9/2/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Workorder: E208169  
Date Received: 8/31/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/31/2022 10:00:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 Spill 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CONF53 - 3'	5
CONF54 - 3'	6
CONF55 - 3'	7
CONF56 - 3'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

**Sample Summary**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b> 09/02/22 09:16
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF53 - 3'	E208169-01A	Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
CONF54 - 3'	E208169-02A	Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
CONF55 - 3'	E208169-03A	Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
CONF56 - 3'	E208169-04A	Soil	08/23/22	08/31/22	Glass Jar, 4 oz.





## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 1 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 9/2/2022 9:16:52AM
---	---	--

## CONF53 - 3'

## E208169-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2236034	
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.2 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2236034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.8 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2236039	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	08/31/22	
<i>Surrogate: n-Nonane</i>	106 %	50-200		08/31/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2236024	
Chloride	ND	20.0	1	08/30/22	08/31/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 9:16:52AM

CONF54 - 3'

E208169-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2236034
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2236034
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	08/31/22	
<i>Surrogate: n-Nonane</i>						
	96.3 %	50-200		08/31/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236024
Chloride	81.0	20.0	1	08/30/22	08/31/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 9:16:52AM

## CONF55 - 3'

## E208169-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2236034
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2236034
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	08/31/22	
<i>Surrogate: n-Nonane</i>						
	143 %	50-200		08/31/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236024
Chloride	ND	200	10	08/30/22	08/31/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 9:16:52AM

CONF56 - 3'

E208169-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2236034
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2236034
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.8 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	08/31/22	
<i>Surrogate: n-Nonane</i>						
	72.0 %	50-200		08/31/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236024
Chloride	20.0	20.0	1	08/30/22	08/31/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236034-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

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: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

## LCS (2236034-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Benzene	4.39	0.0250	5.00		87.8	70-130			
Ethylbenzene	4.58	0.0250	5.00		91.6	70-130			
Toluene	4.63	0.0250	5.00		92.6	70-130			
o-Xylene	4.63	0.0250	5.00		92.6	70-130			
p,m-Xylene	9.25	0.0500	10.0		92.5	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			

## LCS Dup (2236034-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Benzene	4.83	0.0250	5.00		96.6	70-130	9.51	20	
Ethylbenzene	5.06	0.0250	5.00		101	70-130	9.81	20	
Toluene	5.09	0.0250	5.00		102	70-130	9.40	20	
o-Xylene	5.03	0.0250	5.00		101	70-130	8.21	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	9.44	20	
Total Xylenes	15.2	0.0250	15.0		101	70-130	9.03	20	
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236034-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		90.9	70-130			

## LCS (2236034-BS2)

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

## LCS Dup (2236034-BSD2)

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0		102	70-130	3.83	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236039-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			

## LCS (2236039-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	242	25.0	250		96.6	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

## Matrix Spike (2236039-MS1)

Source: E208169-03

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132			
Surrogate: n-Nonane	32.9		50.0		65.7	50-200			

## Matrix Spike Dup (2236039-MSD1)

Source: E208169-03

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.10	20	
Surrogate: n-Nonane	32.1		50.0		64.2	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2236024-BLK1)					Prepared: 08/30/22 Analyzed: 08/31/22				
Chloride	ND	20.0							
LCS (2236024-BS1)					Prepared: 08/30/22 Analyzed: 08/31/22				
Chloride	239	20.0	250		95.5	90-110			
LCS Dup (2236024-BSD1)					Prepared: 08/30/22 Analyzed: 08/31/22				
Chloride	240	20.0	250		95.9	90-110	0.372	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 Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/02/22 09:16

- 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.







## Envirotech Analytical Laboratory

Printed: 8/31/2022 10:58:15AM

## 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:	08/31/22 10:00	Work Order ID:	E208169
Phone:	(505) 382-1211	Date Logged In:	08/30/22 08:31	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	09/05/22 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 1 05.07.22  
Spill

Work Order: E208170

Job Number: 21022-0001

Received: 8/31/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/2/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 9/2/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Workorder: E208170  
Date Received: 8/31/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/31/2022 10:00:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 Spill 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Alexa Michaels**  
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**Lynn Jarboe**  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS10 - 0'	5
SS11 - 0'	6
SS12 - 0'	7
SS13 - 0'	8
QC Summary Data	9
QC - Volatile Organic Compounds by EPA 8260B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

**Sample Summary**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/02/22 09:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS10 - 0'	E208170-01A	Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
SS11 - 0'	E208170-02A	Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
SS12 - 0'	E208170-03A	Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
SS13 - 0'	E208170-04A	Soil	08/23/22	08/31/22	Glass Jar, 4 oz.





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 9:17:55AM

SS10 - 0'

E208170-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236035
Benzene	ND	0.0250	1	08/31/22	09/01/22	
Ethylbenzene	ND	0.0250	1	08/31/22	09/01/22	
Toluene	ND	0.0250	1	08/31/22	09/01/22	
o-Xylene	ND	0.0250	1	08/31/22	09/01/22	
p,m-Xylene	ND	0.0500	1	08/31/22	09/01/22	
Total Xylenes	ND	0.0250	1	08/31/22	09/01/22	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	08/31/22	09/01/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.9 %	70-130	08/31/22	09/01/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	08/31/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	09/01/22	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	08/31/22	09/01/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.9 %	70-130	08/31/22	09/01/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	08/31/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236033
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	08/31/22	
<i>Surrogate: n-Nonane</i>		90.1 %	50-200	08/31/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 9:17:55AM

SS11 - 0'

E208170-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236035
Benzene	ND	0.0250	1	08/31/22	09/01/22	
Ethylbenzene	ND	0.0250	1	08/31/22	09/01/22	
Toluene	ND	0.0250	1	08/31/22	09/01/22	
o-Xylene	ND	0.0250	1	08/31/22	09/01/22	
p,m-Xylene	ND	0.0500	1	08/31/22	09/01/22	
Total Xylenes	ND	0.0250	1	08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	08/31/22	09/01/22	
Surrogate: Toluene-d8		103 %	70-130	08/31/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	08/31/22	09/01/22	
Surrogate: Toluene-d8		103 %	70-130	08/31/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236033
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		94.0 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 9:17:55AM

SS12 - 0'

E208170-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236035
Benzene	ND	0.0250	1	08/31/22	09/01/22	
Ethylbenzene	ND	0.0250	1	08/31/22	09/01/22	
Toluene	ND	0.0250	1	08/31/22	09/01/22	
o-Xylene	ND	0.0250	1	08/31/22	09/01/22	
p,m-Xylene	ND	0.0500	1	08/31/22	09/01/22	
Total Xylenes	ND	0.0250	1	08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/31/22	09/01/22	
Surrogate: Toluene-d8		104 %	70-130	08/31/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/31/22	09/01/22	
Surrogate: Toluene-d8		104 %	70-130	08/31/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236033
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		89.5 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 9:17:55AM

SS13 - 0'

E208170-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236035
Benzene	ND	0.0250	1	08/31/22	09/01/22	
Ethylbenzene	ND	0.0250	1	08/31/22	09/01/22	
Toluene	ND	0.0250	1	08/31/22	09/01/22	
o-Xylene	ND	0.0250	1	08/31/22	09/01/22	
p,m-Xylene	ND	0.0500	1	08/31/22	09/01/22	
Total Xylenes	ND	0.0250	1	08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	08/31/22	09/01/22	
Surrogate: Toluene-d8		100 %	70-130	08/31/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	08/31/22	09/01/22	
Surrogate: Toluene-d8		100 %	70-130	08/31/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236033
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		91.4 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:17:55AM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236035-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

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	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

## LCS (2236035-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Benzene	2.14	0.0250	2.50		85.7	70-130			
Ethylbenzene	2.21	0.0250	2.50		88.4	70-130			
Toluene	2.12	0.0250	2.50		84.6	70-130			
o-Xylene	2.09	0.0250	2.50		83.5	70-130			
p,m-Xylene	4.09	0.0500	5.00		81.9	70-130			
Total Xylenes	6.18	0.0250	7.50		82.4	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

## LCS Dup (2236035-BSD1)

Prepared: 08/31/22 Analyzed: 08/31/22

Benzene	1.97	0.0250	2.50		78.9	70-130	8.36	23	
Ethylbenzene	2.13	0.0250	2.50		85.3	70-130	3.59	27	
Toluene	2.03	0.0250	2.50		81.3	70-130	4.00	24	
o-Xylene	2.00	0.0250	2.50		80.1	70-130	4.18	27	
p,m-Xylene	3.93	0.0500	5.00		78.7	70-130	3.96	27	
Total Xylenes	5.94	0.0250	7.50		79.2	70-130	4.04	27	
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:17:55AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236035-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

## LCS (2236035-BS2)

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	55.6	20.0	50.0		111	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

## LCS Dup (2236035-BSD2)

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130	2.64	20	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:17:55AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236033-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.6		50.0		77.2	50-200			

## LCS (2236033-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
Surrogate: n-Nonane	42.3		50.0		84.5	50-200			

## Matrix Spike (2236033-MS1)

Source: E208167-04

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.8	38-132			
Surrogate: n-Nonane	29.8		50.0		59.6	50-200			

## Matrix Spike Dup (2236033-MSD1)

Source: E208167-04

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.6	38-132	0.139	20	
Surrogate: n-Nonane	31.5		50.0		63.0	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:17:55AM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236023-BLK1)

Prepared: 08/30/22 Analyzed: 08/31/22

Chloride	ND	20.0							
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## LCS (2236023-BS1)

Prepared: 08/30/22 Analyzed: 08/31/22

Chloride	238	20.0	250		95.4	90-110			
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## LCS Dup (2236023-BSD1)

Prepared: 08/30/22 Analyzed: 08/31/22

Chloride	240	20.0	250		95.9	90-110	0.585	20	
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## 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 Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/02/22 09:17

- 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: Kaiser Francis Oil Co 05.07.22 Spill  
 Project: Red Hills Facility Pad 1  
 Project Manager: Ashley Giovenco  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovenco@wescominc.com  
 Report due by:

Bill To  
 Attention: Wescom Inc  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad, NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovenco@wescominc.com

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E208170</u>	<u>21022-0001</u>				<u>X</u>		
Analysis and Method							
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	State	
						NM	CO
						UT	AZ
						TX	
						Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
<u>1040</u>	<u>08/23</u>	<u>Soil</u>	<u>1 jar</u>	<u>SS10-0'</u>	<u>1</u>							<u>X</u>		
<u>1044</u>	<u>08/23</u>	<u>Soil</u>	<u>1 jar</u>	<u>SS11-0'</u>	<u>2</u>							<u>X</u>		
<u>1102</u>	<u>08/23</u>	<u>Soil</u>	<u>1 jar</u>	<u>SS12-0'</u>	<u>3</u>							<u>X</u>		
<u>1105</u>	<u>08/23</u>	<u>Soil</u>	<u>1 jar</u>	<u>SS13-0'</u>	<u>4</u>							<u>X</u>		

Additional Instructions: Preserved on ice; please cc Shar. Harvester, Cole Burton, Israel Estrella and ashley.giovenco@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) [Signature] Date 08.29.2022 Time 10:30am

Received by: (Signature) [Signature] Date 8/29/22 Time 11:00

Relinquished by: (Signature) [Signature] Date 8/31/22 Time 1000

Received by: (Signature) [Signature] Date 8/31/22 Time 1000

Lab Use Only  
 Received on ice: Y N  
 T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
 AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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 Analytical Laboratory

Printed: 8/31/2022 10:59:45AM

## 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:	08/31/22 10:00	Work Order ID:	E208170
Phone:	(505) 382-1211	Date Logged In:	08/30/22 08:33	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	09/05/22 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

# ATTACHMENT F

## Confirmation Sampling Variance Request



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**Red Hills Facility Pad 1** | Incident ID: nAPP2212768697

## Ashley Giovengo

---

**From:** Aaron Daniels <aarond@kfoc.net>  
**Sent:** Wednesday, May 18, 2022 1:45 PM  
**To:** Ashley Giovengo  
**Subject:** FW: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 1 - NAPP2212768697

FYI

---

**From:** Morgan, Crisha A <camorgan@blm.gov>  
**Sent:** Wednesday, May 18, 2022 2:41 PM  
**To:** Aaron Daniels <aarond@kfoc.net>  
**Cc:** Hutton Andrew <Huttona@kfoc.net>  
**Subject:** Re: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 1 - NAPP2212768697

OK! Consider this BLM's approval for your requested variance for 500 sq ft off pad, and 400 Sq ft on pad.

Please let me now if you need anything else!

**Crisha A. Morgan** | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned Well POC Lead  
 Bureau of Land Management | Carlsbad Field Office  
 620 E. Greene Street Carlsbad, NM 88220  
 Cell 575-200-8648 | Office 575-234-5987 | [camorgan@blm.gov](mailto:camorgan@blm.gov)



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**From:** Aaron Daniels <aarond@kfoc.net>  
**Sent:** Wednesday, May 18, 2022 1:25 PM  
**To:** Morgan, Crisha A <camorgan@blm.gov>  
**Cc:** Hutton Andrew <Huttona@kfoc.net>  
**Subject:** FW: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 1 - NAPP2212768697

Crisha – forwarding per your request.

Please note the on pad change from NMOCD.

Thanks,  
 Aaron

**From:** Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Sent:** Wednesday, May 18, 2022 1:00 PM  
**To:** Aaron Daniels <[aarond@kfoc.net](mailto:aarond@kfoc.net)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@state.nm.us](mailto:Jocelyn.Harimon@state.nm.us)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Cc:** Hutton Andrew <[Huttona@kfoc.net](mailto:Huttona@kfoc.net)>; Billings, Bradford, EMNRD <[Bradford.Billings@state.nm.us](mailto:Bradford.Billings@state.nm.us)>  
**Subject:** RE: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 1 - NAPP2212768697

Hello Aaron

OCD will approve your requested variance for 500 sq ft off pad, but on pad you will need to sample every 400 sq ft.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,

Jennifer Nobui

# ATTACHMENT G

## 48-Hour Confirmation Sampling Notification Emails



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**Red Hills Facility Pad 1** | Incident ID: nAPP2212768697



**From:** [Ashley Giovengo](#)  
**To:** [Bratcher, Mike, EMNRD](#); [Hensley, Chad, EMNRD](#); [Billings, Bradford, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Cc:** [EHSDB](#); [Aaron Daniels](#); [Hutton Andrew](#); [Shar Harvester](#); [Cole Burton](#)  
**Subject:** 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 – nAPP2211549633  
**Date:** Monday, May 16, 2022 10:37:13 PM

---

Hello All,

A 48-hour confirmation sampling notification was sent in on 05/11/2022 for confirmation sampling at the Red Hills Facility Pad 5 - nAPP221276897. The correct location was the Red Hills Facility Pad 1 - nAPP2211549633.

We intend to take confirmation samples at the Red Hills Facility Pad 5 – nAPP221276897 starting on (5/18/22 thru 05/20/22).

Confirmation samples were collected at the Red Hills Facility Pad 1 - nAPP2211549633 on (05/13/2022). I apologize for any confusion this may have caused.

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](http://WescomInc.com) | [ashley.giovengo@WescomInc.com](mailto:ashley.giovengo@WescomInc.com)

*"I am in charge of my own safety."*



Minnesota | North Dakota | New Mexico | Wisconsin

**From:** [Cole Burton](#)  
**To:** ["OCD.Enviro@state.nm.us"](mailto:'OCD.Enviro@state.nm.us')  
**Cc:** [Ashley Giovengo](#); [Shar Harvester](#); [Israel Estrella](#); ["Hutton Andrew"](#); [Aaron Daniels](#)  
**Subject:** 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697  
**Date:** Tuesday, July 5, 2022 10:34:00 AM

---

Hello All,

We intend to take confirmation samples at the Red Hills Facility Pad 1 – nAPP2212768697 starting on (07/08/22 thru 07/11/22).

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

Thanks,

**Cole Burton**, Environmental Field Technician  
O (218) 724-1322 | C (505) 205-0455  
[WescomInc.com](http://WescomInc.com) | [cole.burton@WescomInc.com](mailto:cole.burton@WescomInc.com)  
*"I am in charge of my own safety."*

## Ashley Giovengo

---

**From:** Cole Burton  
**Sent:** Monday, July 11, 2022 7:24 AM  
**To:** OCD Enviro  
**Cc:** Ashley Giovengo; Shar Harvester; Israel Estrella; Hutton Andrew; Aaron Daniels  
**Subject:** 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697

Please extend the confirmation sample period for this location (Red Hills Facility Pad 1 - nAPP2212768697) through Friday (07/11/22 - 07/15/22).

Thanks,

**Cole Burton**, Environmental Field Technician  
O (218) 724-1322 | C (505) 205-0455  
[WescomInc.com](http://WescomInc.com) | [cole.burton@WescomInc.com](mailto:cole.burton@WescomInc.com)  
"I am in charge of my own safety."

**Ashley Giovengo**

---

**From:** Ashley Giovengo  
**Sent:** Tuesday, July 19, 2022 1:39 PM  
**To:** OCD Enviro  
**Cc:** Shar Harvester; Israel Estrella; Hutton Andrew; Aaron Daniels; Cole Burton  
**Subject:** RE: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697

Hello,

Please extend this confirmation sampling notification though 07/20/2022.

Thanks,

**Ashley Giovengo**, Environmental Manager - Permian

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

[WescomInc.com](http://WescomInc.com) | [ashley.giovengo@WescomInc.com](mailto:ashley.giovengo@WescomInc.com)

*"I am in charge of my own safety."*

**From:** Cole Burton <cole.burton@wescominc.com>

**Sent:** Monday, July 11, 2022 7:24 AM

**To:** OCD Enviro <ocd.enviro@state.nm.us>

**Cc:** Ashley Giovengo <ashley.giovengo@wescominc.com>; Shar Harvester <Shar.Harvester@WescomInc.com>; Israel Estrella <Israel.Estrella@wescominc.com>; Hutton Andrew <huttona@kfoc.net>; Aaron Daniels <aarond@kfoc.net>

**Subject:** 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697

Please extend the confirmation sample period for this location (Red Hills Facility Pad 1 - nAPP2212768697) through Friday (07/11/22 - 07/15/22).

Thanks,

**Cole Burton**, Environmental Field Technician

O (218) 724-1322 | C (505) 205-0455

[WescomInc.com](http://WescomInc.com) | [cole.burton@WescomInc.com](mailto:cole.burton@WescomInc.com)

*"I am in charge of my own safety."*

## Ashley Giovengo

---

**From:** Ashley Giovengo  
**Sent:** Thursday, August 11, 2022 12:53 PM  
**To:** OCD.Enviro@state.nm.us  
**Cc:** Shar Harvester; Cole Burton; Israel Estrella; Hutton Andrew; Aaron Daniels  
**Subject:** 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697

Good afternoon,

We intend to take confirmation samples at the (Red Hills Facility Pad 1 - nAPP2212768697) starting on Monday (08/15/2022) through Wednesday (08/17/2022).

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](http://WescomInc.com) | [ashley.giovengo@WescomInc.com](mailto:ashley.giovengo@WescomInc.com)  
"I am in charge of my own safety."



**Ashley Giovengo**

---

**From:** Israel Estrella  
**Sent:** Thursday, August 18, 2022 7:15 AM  
**To:** Ashley Giovengo; OCD.Enviro@state.nm.us  
**Cc:** Shar Harvester; Cole Burton; Hutton Andrew; Aaron Daniels  
**Subject:** RE: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697

Hello,

Please extend this sampling event at (Red Hills Facility Pad 1 – nAP2212768697) until Friday (08/19/2022).

Thank You.

**Israel Estrella**, Environmental Field Technician  
O (218) 724-1322 | C (575) 361-2630  
[WescomInc.com](http://WescomInc.com) | [israel.estrella@WescomInc.com](mailto:israel.estrella@WescomInc.com)  
*"I am in charge of my own safety."*

**From:** Ashley Giovengo <ashley.giovengo@wescominc.com>  
**Sent:** Thursday, August 11, 2022 12:53 PM  
**To:** OCD.Enviro@state.nm.us  
**Cc:** Shar Harvester <Shar.Harvester@WescomInc.com>; Cole Burton <cole.burton@wescominc.com>; Israel Estrella <Israel.Estrella@wescominc.com>; Hutton Andrew <Huttona@kfoc.net>; Aaron Daniels <aarond@kfoc.net>  
**Subject:** 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697

Good afternoon,

We intend to take confirmation samples at the (Red Hills Facility Pad 1 - nAPP2212768697) starting on Monday (08/15/2022) through Wednesday (08/17/2022).

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](http://WescomInc.com) | [ashley.giovengo@WescomInc.com](mailto:ashley.giovengo@WescomInc.com)  
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**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 142080

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 142080
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved.	9/14/2022