



**CLOSURE REQUEST**

**KAISER-FRANCIS OIL COMPANY**

Created for submission to New Mexico Oil Conservation Division on 07/14/2022

**ASHLEY GIOVENGO**  
*Project Environmental Scientist*

**ENERGIZING AMERICA**

July 14, 2022

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

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

**RE: CLOSURE REQUEST**

<b>COMPANY</b>	Kaiser-Francis Oil Company
<b>LOCATION</b>	Red Hills Facility Pad 5
<b>API</b>	30-025-47207
<b>PLSS</b>	Unit D Sec 31 T25S R33E
<b>GPS</b>	32.093678, -103.61828
<b>INCIDENT ID</b>	nAPP2212769524

**BACKGROUND**

Wescom, Inc., hereafter referred to as Wescom, has prepared this Closure Request on behalf of Kaiser-Francis Oil Company, hereafter referred to as KFOC, regarding the release at the Red Hills Facility Pad 5 (Site) located in Unit D, Section 31, Township 25 South and Range 33 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.093678 and West -103.61828. 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, human error resulted in the release of 70 barrels (bbls) of produced water onto the caliche pad and onto two separate pipeline rights-of-way's (ROW). Bolts were loosened on a flange located outside the separator containment and were not re-tightened once the maintenance activity had been completed. KFOC immediately isolated the source of the leak and approximately 21 bbls of produced water was recovered. The spill area is located on the North and East sides of the caliche pad as shown in Figure 1.

Wescom personnel arrived onsite on May 17, 2022, to begin excavation of the off-pad spill area and to collect confirmation samples. A variance request was submitted to the NMOCD and to the BLM on May 18, 2022, to establish the size of the confirmation sampling areas. On May 19, 2022, Mike Bratcher of the NMOCD approved the variance request for confirmation sampling area's not to exceed every 400 square feet (sq. ft.); Crisha A. Morgan of the BLM also approved the sampling variance for every 400 sq. ft. (see attachment F).



## SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is greater than 280 feet below ground surface (bgs) and is 1.26 miles Southeast of the Site. No playas or lakes are located within a one-mile radius of this Site (Attachment C).

## KARST POTENTIAL

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

## TARGET REMEDIAL LEVELS

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

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Red Hills Facility Pad 5 — 32.093491, -103.616627						
Depth to Groundwater		Closure Criteria (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		<b>600</b>	<b>100</b>		<b>50</b>	<b>10</b>
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	<b>280 ft</b>	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

## REMEDIATION ACTIVITIES

Beginning on May 17, 2022, Wescom personnel arrived onsite to oversee the removal of impacted soil and to conduct confirmation sampling activities. A backhoe was used to remove approximately 3,800 cubic yards of contaminated soil from the spill area. A background sample, BG01, was collected 50 feet to the West of the Northern pipeline ROW, as shown in Figure 1. Impacted material from the spill area was hauled to an approved disposal facility.

Wescom personnel collected a total of 79 composite confirmation samples over the 23-day sampling and excavation period. All the confirmation samples were below the applicable RRALs for the Site as shown in Table 1. All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. Confirmation sample locations are presented in Figure 2 and laboratory analytical reports are included in Attachment E.

The required 48-hour confirmation sampling notifications were sent on May 11, 2022, May 23, 2022, May 31, 2022, June 06, 2022, and on June 20, 2022, to Chad Hensley, Bradford Billings, Mike Bratcher, Robert Hamlet, Jennifer Nobui, and Nelson Velez, with the NMOCD in Santa Fe, New Mexico and are included in Attachment G.

## REQUEST FOR CLOSURE

On behalf of KFOC, Wescom hereby requests closure for the release associated with incident number nAPP2212769524 based on the logic below.

- The excavation of the 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 are below applicable RRALs for the Site.
- Impacted material was removed and properly disposed of at an approved facility.

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

Sincerely,

Wescom, Inc.

**Ashley Giovengo**

Project Environmental Scientist



cc: Aaron Daniels, Kaiser-Francis Oil Company  
Hutton Andrew, Kaiser-Francis Oil Company  
Chad Hensley, NMOCD  
Bradford Billings, NMOCD  
Robert Hamlet, NMOCD  
Jennifer Nobui, NMOCD  
Nelson Velez, NMOCD

# REFERENCE MATERIALS

## FIGURES

- FIGURE 1.** Spill Location
- FIGURE 2.** Confirmation Sampling

## TABLES

- TABLE 1.** 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





**FIGURE 1.  
SPILL LOCATION**

Red Hills Facility Pad 5  
Incident ID: nAPP2212769524  
API: 30-025-47207  
GPS Coordinates:  
32.093678, -103.61828  
Lea County, New Mexico  
Kaiser-Francis Oil Company

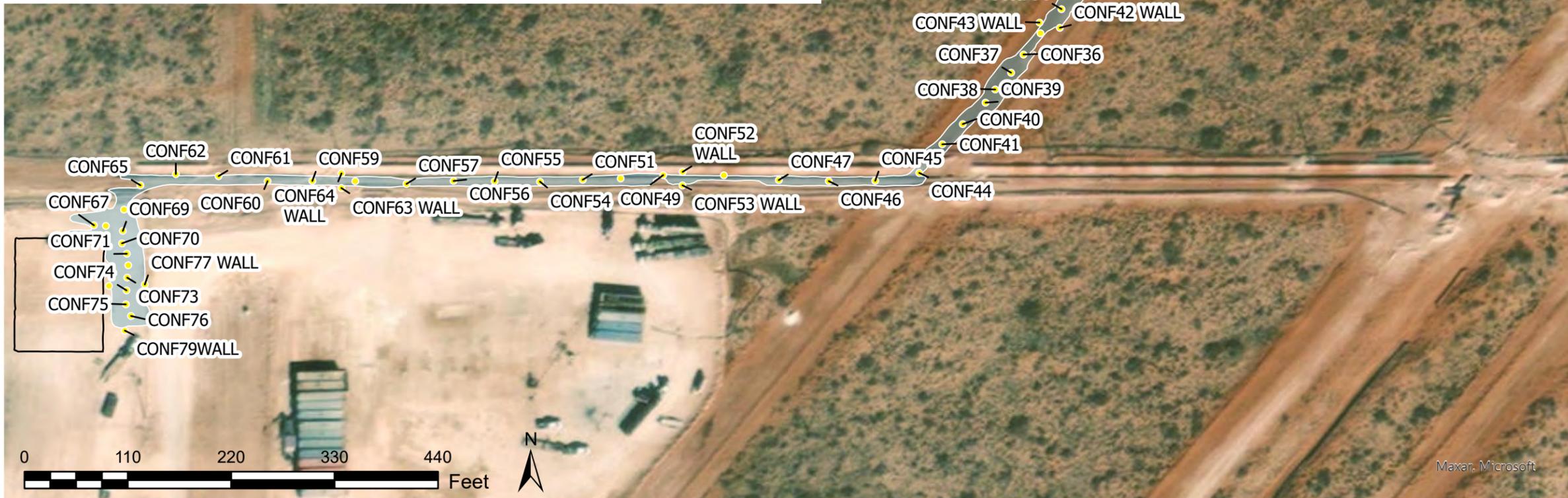
**LEGEND**

- Separator Containment
- Spill Area



### Laboratory Analysis Results

Sample ID	Depth	BTEX	TPH	CI	Sample ID	Depth	BTEX	TPH	CI	Sample ID	Depth	BTEX	TPH	CI
BG01	1	ND	ND	ND	CONF27	2.5	ND	ND	24.4	CONF54	1.5	ND	ND	51.5
CONF01	1	ND	ND	133	CONF28	2	ND	ND	239	CONF55	1.5	ND	ND	281
CONF02	2	ND	ND	289	CONF29	2	ND	ND	388	CONF56	1.5	ND	ND	26.2
CONF03	2	ND	ND	ND	CONF30	3	ND	ND	181	CONF57	1.5	ND	ND	280
CONF04	2	ND	ND	38.1	CONF31	2	ND	ND	68.2	CONF58	2	ND	ND	ND
CONF05	3	ND	ND	76.3	CONF32	3.5	ND	ND	56	CONF59	1.5	ND	ND	355
CONF06	3	ND	ND	36.4	CONF33	2.5	ND	ND	97	CONF60	2	ND	ND	249
CONF07	4	ND	ND	ND	CONF34	3	ND	ND	ND	CONF61	1.5	ND	ND	48.3
CONF08	4	ND	ND	326	CONF35	3.5	ND	ND	306	CONF62	2	ND	ND	467
CONF09	5	ND	ND	ND	CONF36	3	ND	ND	150	CONF63 WALL	0.5	ND	ND	ND
CONF10	4.5	ND	ND	27.1	CONF37	3.5	ND	ND	221	CONF64 WALL	0.5	ND	ND	120
CONF11	3.5	ND	ND	ND	CONF38	4	ND	ND	530	CONF65	1.5	ND	ND	130
CONF12	3	ND	ND	134	CONF39	2.5	ND	ND	ND	CONF66	1	ND	ND	166
CONF13	3.5	ND	ND	ND	CONF40	4	ND	ND	ND	CONF67	2	ND	ND	33.3
CONF14	3.5	ND	ND	66.9	CONF41	3	ND	ND	377	CONF68	1.5	ND	ND	251
CONF15	3.5	ND	ND	130	CONF42 WALL	1	ND	ND	32.7	CONF69	1.5	ND	ND	114
CONF16	3	ND	ND	35.2	CONF43 WALL	1	ND	ND	183	CONF70	1.5	ND	ND	160
CONF17	2	ND	ND	92.4	CONF44	2.5	ND	ND	56.2	CONF71	1.5	ND	ND	112
CONF18	2.5	ND	ND	136	CONF45	1	ND	ND	ND	CONF72	2	ND	ND	112
CONF19	2.5	ND	ND	ND	CONF46	1	ND	ND	ND	CONF73	2	ND	ND	247
CONF20	2.5	ND	ND	108	CONF47	1	ND	ND	143	CONF74	2	ND	ND	80.8
CONF21	2.5	ND	ND	222	CONF48	1	ND	ND	ND	CONF75	2	ND	ND	76.5
CONF22	3	ND	ND	32.8	CONF49	1	ND	ND	ND	CONF76	1.5	ND	ND	90.4
CONF23	3	ND	ND	62.5	CONF50	1.5	ND	ND	42.7	CONF77 WALL	0.5	ND	ND	227
CONF24 WALL	1	ND	ND	ND	CONF51	1	ND	ND	20.1	CONF78 WALL	0.5	ND	ND	117
CONF25 WALL	1	ND	ND	ND	CONF52 WALL	0.5	ND	ND	60.5	CONF79 WALL	0.5	ND	ND	293
CONF26	3	ND	ND	ND	CONF53 WALL	0.5	ND	ND	ND					



**FIGURE 2. CONFIRMATION SAMPLING**

Red Hills Facility Pad 5  
 Incident ID: nAPP2212769524  
 API: 30-015-43603  
 GPS Coordinates:  
 32.093678, -103.61828  
 Lea County, New Mexico  
 Kaiser-Francis Oil Company

**LEGEND**

- Confirmation Sample Locations
- Separator Containment
- Spill Area



Maxar, Microsoft

# TABLES



Red Hills Facility Pad 5 05.07.2022   nAPP2212769524						
Kaiser-Francis Oil Company   07.11.2022						
Table 1. 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)	
<b>Closure Criteria</b>			<b>10</b>	<b>50</b>	<b>100</b>	<b>600</b>
BG01	0	5/24/2022	ND	ND	ND	ND
BG01	1	5/24/2022	ND	ND	ND	ND
CONF01	1	5/24/2022	ND	ND	ND	133
CONF02	2	5/24/2022	ND	ND	ND	289
CONF03	2	5/24/2022	ND	ND	ND	ND
CONF04	2	5/24/2022	ND	ND	ND	38.1
CONF05	3	5/24/2022	ND	ND	ND	76.3
CONF06	3	5/24/2022	ND	ND	ND	36.4
CONF07	4	5/24/2022	ND	ND	ND	ND
CONF08	4	5/24/2022	ND	ND	ND	326
CONF09	5	5/24/2022	ND	ND	ND	ND
CONF10	4.5	5/24/2022	ND	ND	ND	27.1
CONF11	3.5	5/24/2022	ND	ND	ND	ND
CONF12	3	5/24/2022	ND	ND	ND	134
CONF13	3.5	5/24/2022	ND	ND	ND	ND
CONF14	3.5	5/24/2022	ND	ND	ND	66.9
CONF15	3.5	5/24/2022	ND	ND	ND	130
CONF16	3	5/24/2022	ND	ND	ND	35.2
CONF17	2	5/24/2022	ND	ND	ND	92.4
CONF18	2.5	5/25/2022	ND	ND	ND	136
CONF19	2.5	5/25/2022	ND	ND	ND	ND
CONF20	2.5	5/25/2022	ND	ND	ND	108
CONF21	2.5	5/25/2022	ND	ND	ND	222
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						
<b>Bold Red</b> - Results are above closure criteria						
Gray Highlight - Background Samples						

Red Hills Facility Pad 5 05.07.2022   nAPP2212769524						
Kaiser-Francis Oil Company   07.11.2022						
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<b>Closure Criteria</b>			<b>10</b>	<b>50</b>	<b>100</b>	<b>600</b>
CONF22	3	5/25/2022	ND	ND	ND	32.8
CONF23	3	5/25/2022	ND	ND	ND	62.5
CONF24 Wall	1	5/25/2022	ND	ND	ND	ND
CONF25 Wall	1	5/25/2022	ND	ND	ND	ND
CONF26	3	6/1/2022	ND	ND	ND	ND
CONF27	2.5	6/1/2022	ND	ND	ND	24.4
CONF28	2	6/1/2022	ND	ND	ND	239
CONF29	2	6/1/2022	ND	ND	ND	388
CONF30	3	6/1/2022	ND	ND	ND	181
CONF31	2	6/1/2022	ND	ND	ND	68.2
CONF32	3.5	6/2/2022	ND	ND	ND	56
CONF33	2.5	6/2/2022	ND	ND	ND	97
CONF34	3	6/2/2022	ND	ND	ND	ND
CONF35	3.5	6/3/2022	ND	ND	ND	306
CONF36	3	6/3/2022	ND	ND	ND	150
CONF37	3.5	6/3/2022	ND	ND	ND	221
CONF38	4	6/3/2022	ND	ND	ND	530
CONF39	2.5	6/6/2022	ND	ND	ND	ND
CONF40	4	6/6/2022	ND	ND	ND	ND
CONF41	3	6/6/2022	ND	ND	ND	377
CONF42 Wall	1	6/6/2022	ND	ND	ND	32.7
CONF43 Wall	1	6/6/2022	ND	ND	ND	183
ABBREVIATIONS						
BTEX — Benzene, Toluene, Ethylene, Xylene			GRO — Gasoline Range Organics			
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<b>Bold Red</b> - Results are above closure criteria						
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Red Hills Facility Pad 5 05.07.2022   nAPP2212769524						
Kaiser-Francis Oil Company   07.11.2022						
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			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
<b>Closure Criteria</b>			<b>10</b>	<b>50</b>	<b>100</b>	<b>600</b>
CONF44	2.5	6/10/2022	ND	ND	ND	56.2
CONF45	1	6/10/2022	ND	ND	ND	ND
CONF46	1	6/10/2022	ND	ND	ND	ND
CONF47	1	6/10/2022	ND	ND	ND	143
CONF48	1	6/10/2022	ND	ND	ND	ND
CONF49	1	6/10/2022	ND	ND	ND	ND
CONF50	1.5	6/10/2022	ND	ND	ND	42.7
CONF51	1	6/10/2022	ND	ND	ND	20.1
CONF52 Wall	0.5	6/10/2022	ND	ND	ND	60.5
CONF53 Wall	0.5	6/10/2022	ND	ND	ND	ND
CONF54	1.5	6/14/2022	ND	ND	ND	51.5
CONF55	1.5	6/14/2022	ND	ND	ND	281
CONF56	1.5	6/14/2022	ND	ND	ND	26.2
CONF57	1.5	6/14/2022	ND	ND	ND	280
CONF58	2	6/16/2022	ND	ND	ND	ND
CONF59	1.5	6/16/2022	ND	ND	ND	355
CONF60	2	6/16/2022	ND	ND	ND	249
CONF61	1.5	6/16/2022	ND	ND	ND	48.3
CONF62	2	6/17/2022	ND	ND	ND	467
CONF63 Wall	0.5	6/17/2022	ND	ND	ND	ND
CONF64 Wall	0.5	6/17/2022	ND	ND	ND	120
ABBREVIATIONS						
BTEX — Benzene, Toluene, Ethylene, Xylene			GRO — Gasoline Range Organics			
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ft. — Feet			mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons						
Notes						
<b>Bold Red</b> - Results are above closure criteria						
Gray Highlight - Background Samples						

Red Hills Facility Pad 5 05.07.2022   nAPP2212769524						
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<b>Closure Criteria</b>			<b>10</b>	<b>50</b>	<b>100</b>	<b>600</b>
CONF65	1.5	6/21/2022	ND	ND	ND	130
CONF66	1	6/21/2022	ND	ND	ND	166
CONF67	2	6/21/2022	ND	ND	ND	33.3
CONF68	1.5	6/21/2022	ND	ND	ND	251
CONF69	1.5	6/21/2022	ND	ND	ND	114
CONF70	1.5	6/22/2022	ND	ND	ND	160
CONF71	1.5	6/22/2022	ND	ND	ND	112
CONF72	2	6/22/2022	ND	ND	ND	112
CONF73	2	6/22/2022	ND	ND	ND	247
CONF74	2	6/22/2022	ND	ND	ND	80.8
CONF75	2	6/21/2022	ND	ND	ND	76.5
CONF76	1.5	6/21/2022	ND	ND	ND	90.4
CONF77 Wall	0.5	6/21/2022	ND	ND	ND	227
CONF78 Wall	0.5	6/21/2022	ND	ND	ND	117
CONF79 Wall	0.5	6/21/2022	ND	ND	ND	293
ABBREVIATIONS						
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ft. — Feet			mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons						
Notes						
<b>Bold Red</b> - Results are above closure criteria						
Gray Highlight - Background Samples						

# ATTACHMENT A

Signed C-141



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

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAPP2212769524
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) nAPP2212769524
Contact mailing address: 6733 S. Yale, Tulsa, OK 74136	

### Location of Release Source

Latitude 32.093678      Longitude -103.61828  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name: Red Hills Facility Pad 5	Site Type: Well Pad
Date Release Discovered: 05/07/2022	API# (if applicable) 30-025-47207

Unit Letter	Section	Township	Range	County
D	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) 70 bbls	Volume Recovered (bbls) 21 bbls
	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**

Flange wasn't tightened back up after bolts were loosened.

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

Incident ID	nAPP2212769524
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>[Signature]</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	nAPP2212769524
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?	_280_ (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 1/2-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

State of New Mexico  
Oil Conservation Division

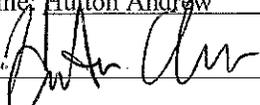
Page 4

Incident ID	nAPP2212769524
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 Andrew

Title: EHS Representative

Signature: 

Date: 05/06/2022

email: huttona@kfoc.net

Telephone: 918-491-4615

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

Incident ID	nAPP2212769524
District RP	
Facility ID	
Application ID	

### Closure

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

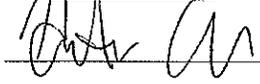
**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

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

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

Printed Name: Hutton Andrew

Title: EHS Representative

Signature: 

Date: 05/06/2022

email: huttona@kfoc.net

Telephone: 918-491-4615

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 

Date: 10/11/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

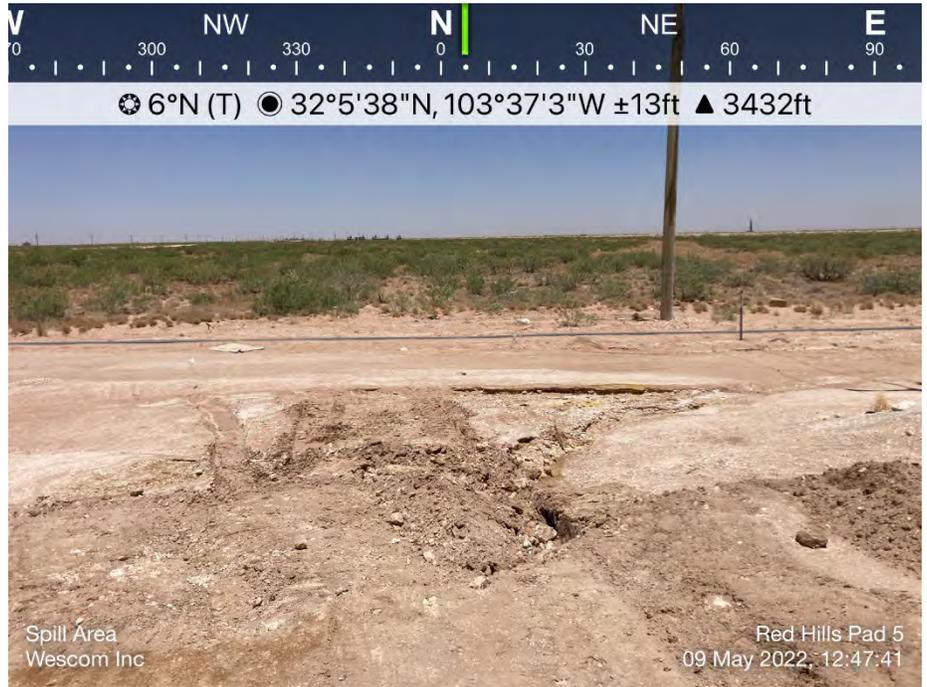
# ATTACHMENT B

## Site Photos





Spill Area - On Pad



Spill Area - Edge of Pad





Spill Area - East Right of Way (ROW)



Spill Area - East ROW to North ROW





Spill Area - North ROW



Spill Area - North ROW





Excavated Area - North ROW



Excavated Area - North ROW



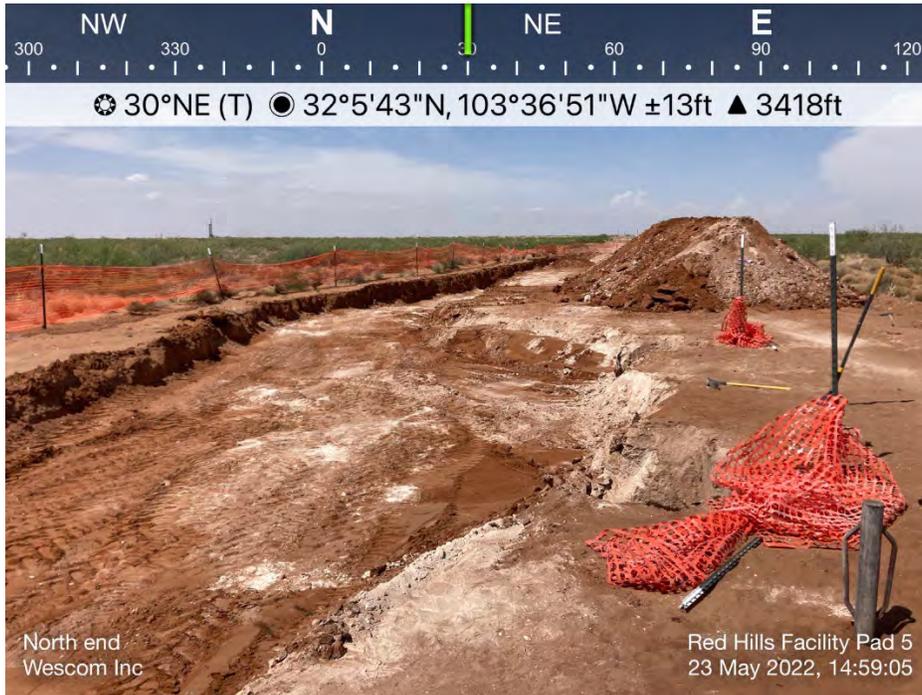


Hydrovac to Locate Pipelines



Excavated Area - North ROW





Excavated Area - North ROW



Excavated Area - North ROW



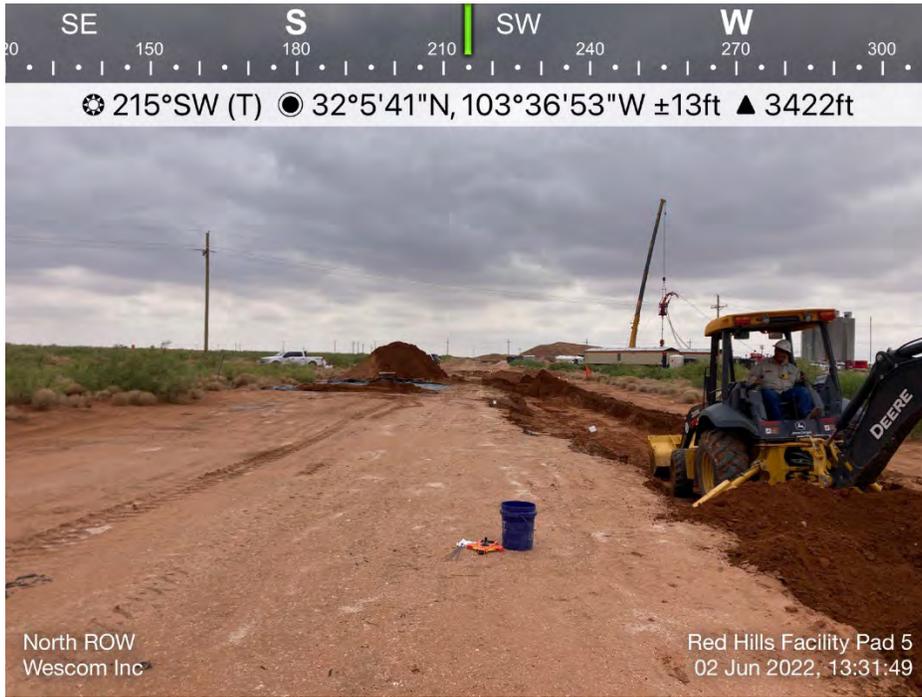


Excavated Area - North ROW

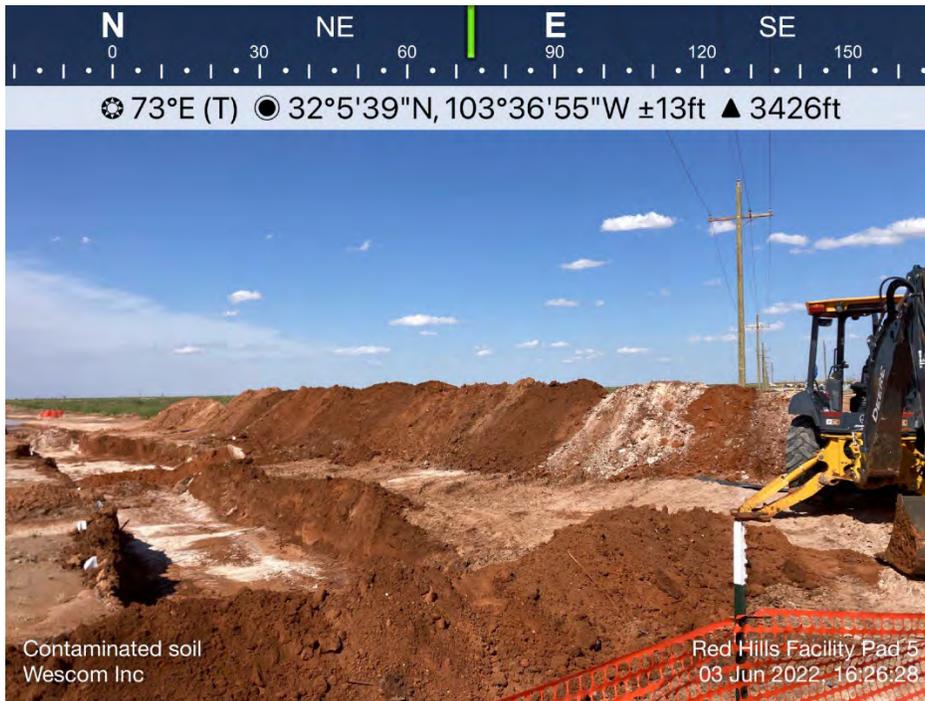


Excavated Area - North ROW





Excavated Area - North ROW



Excavated Area - North ROW





Hydrovac to Locate Pipelines on East ROW

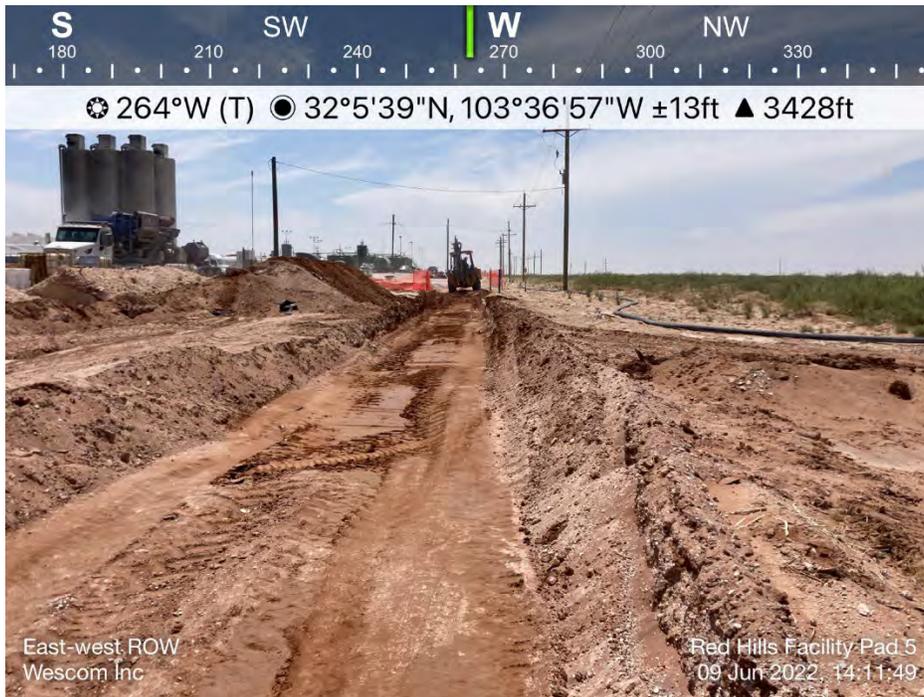


Excavated Area – East and North ROW Intersection





Excavated Area - East ROW



Excavated Area - East ROW





Excavated Area - East ROW



Excavated Area - East ROW



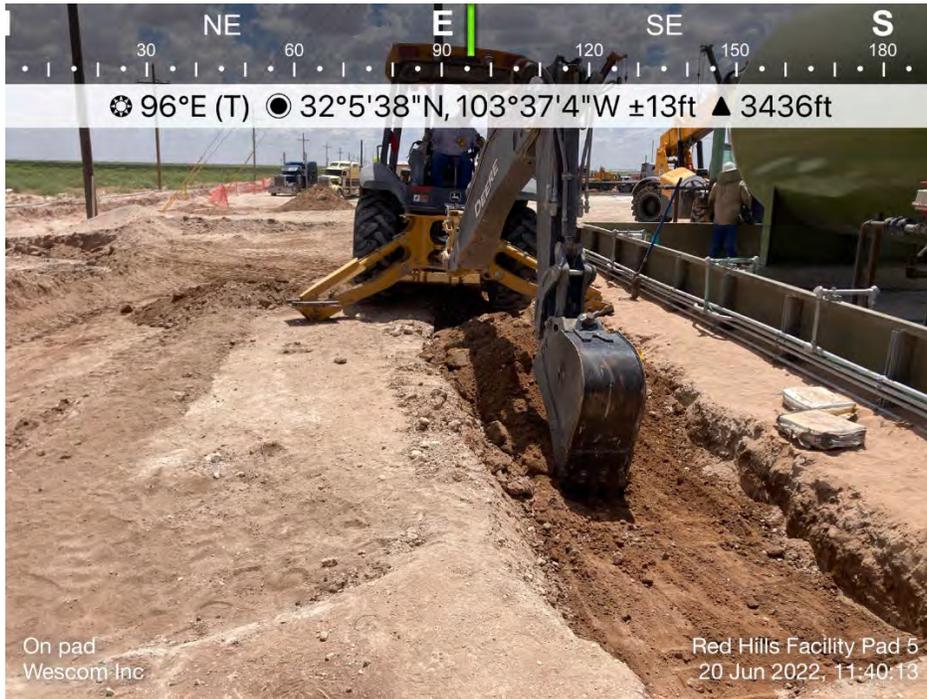


Excavated Area - Edge of Pad



Excavated Area - On Pad



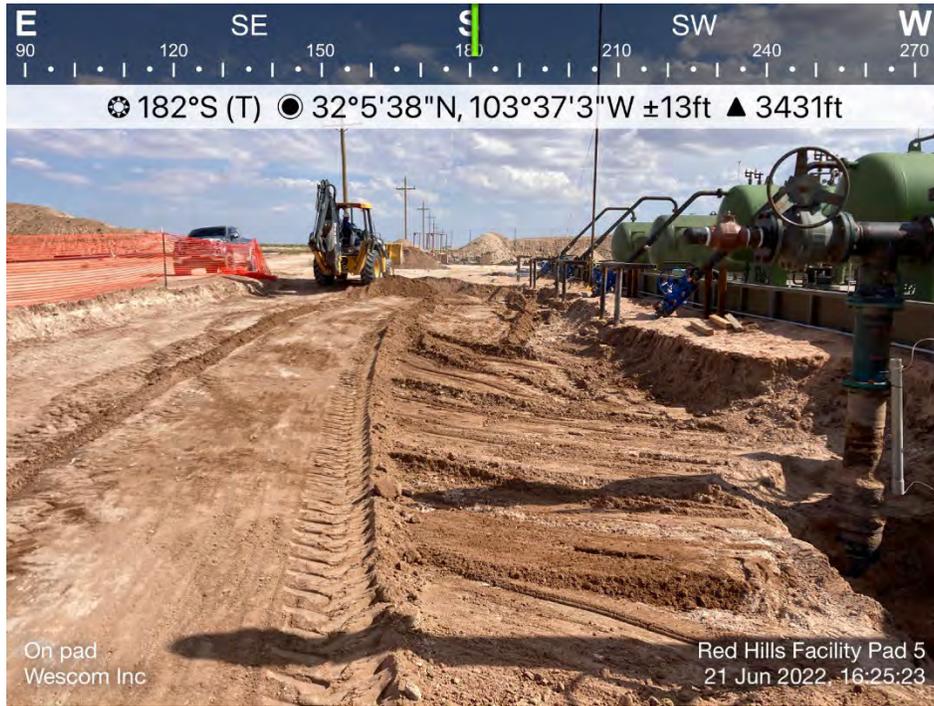


Excavated Area - On Pad



Hand Digging Around Pipelines





Excavated Area - On Pad



Hydrovac Around Pipelines





Excavated Area - On Pad



Excavated Area - On Pad



# ATTACHMENT C

## Closure Criteria Supporting Documents



# New Mexico Office of the State Engineer

## Wells with Well Log Information



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

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

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

(NAD83 UTM in meters)

(in feet)

POD Number	POD Code	Subbasin	County	Source	q	q	q	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
<a href="#">C.04537 POD1</a>		C	LE	Shallow	4	4	4	31	25S	33E	631847	3550243	1909	06/11/2021	06/12/2021	06/21/2021	500	280	WALLACE, BRYCE J.LEE.NER	1706
<a href="#">C.04485 POD1</a>		CUB	LE		4	1	1	12	26S	32E	629039	3548125	3818	10/05/2020	10/06/2020	11/19/2020	55		HAMMER, RODNEY S.WARDENER	1186
<a href="#">C.04547 POD1</a>		CUB	LE	Shallow	2	4	4	07	26S	33E	631686	3547262	4521	07/15/2021	07/15/2021	08/02/2021	112		ATKINS, JACKIE D.UELENER	1249
<a href="#">C.04549 POD1</a>		CUB	LE		1	1	1	11	26S	32E	627111	3548316	4771	07/14/2021	07/14/2021	08/02/2021	0	0	ATKINS, JACKIE D.UELENER	1249

Record Count: 4

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

**Easting (X):** 630539.78

**Northing (Y):** 3551635.92

**Radius:** 5000

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

2/23/22 2:24 PM

WELLS WITH WELL LOG INFORMATION



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
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>Plug Date:</b>	
<b>Log File Date:</b> 06/21/2021	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</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

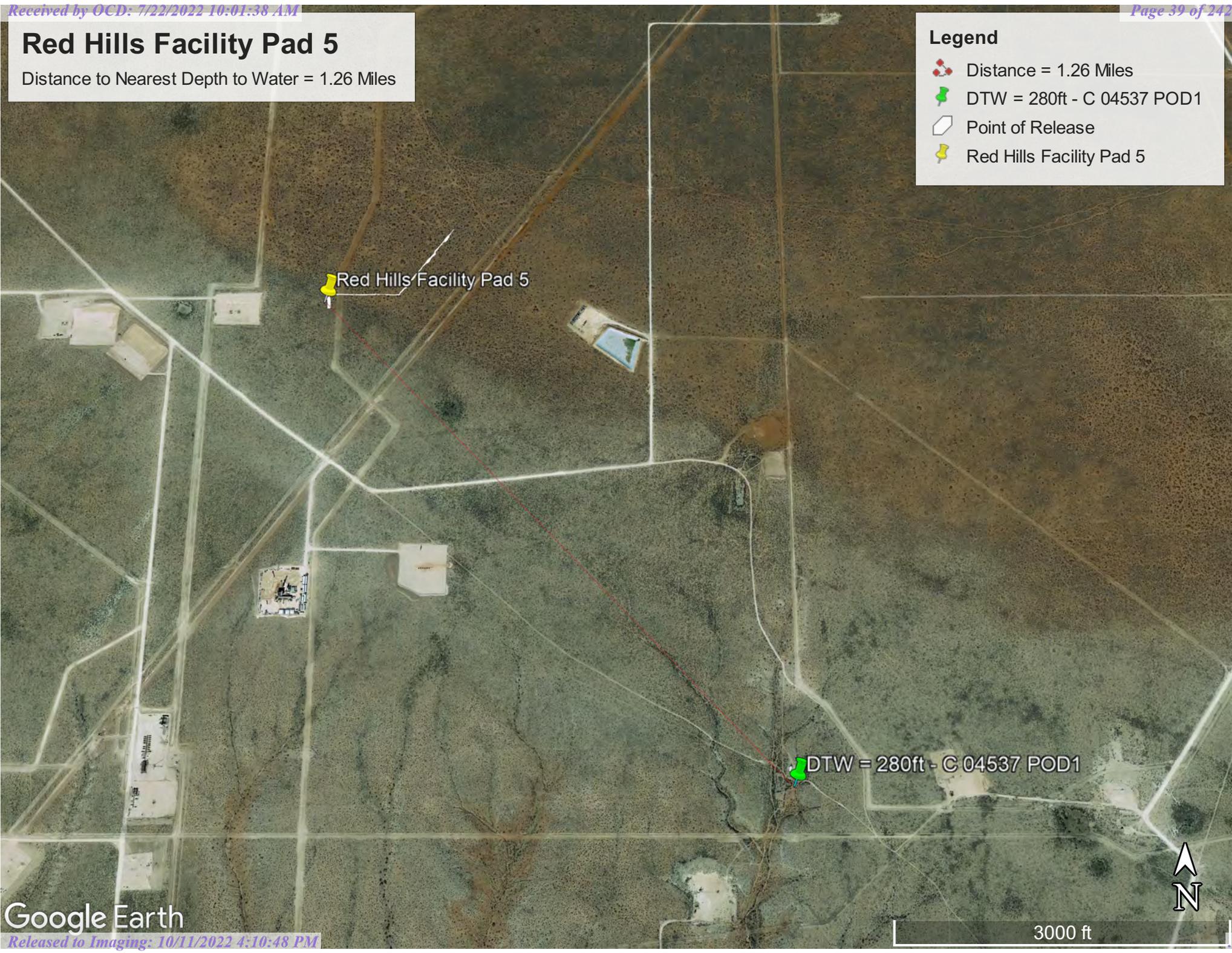
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

# Red Hills Facility Pad 5

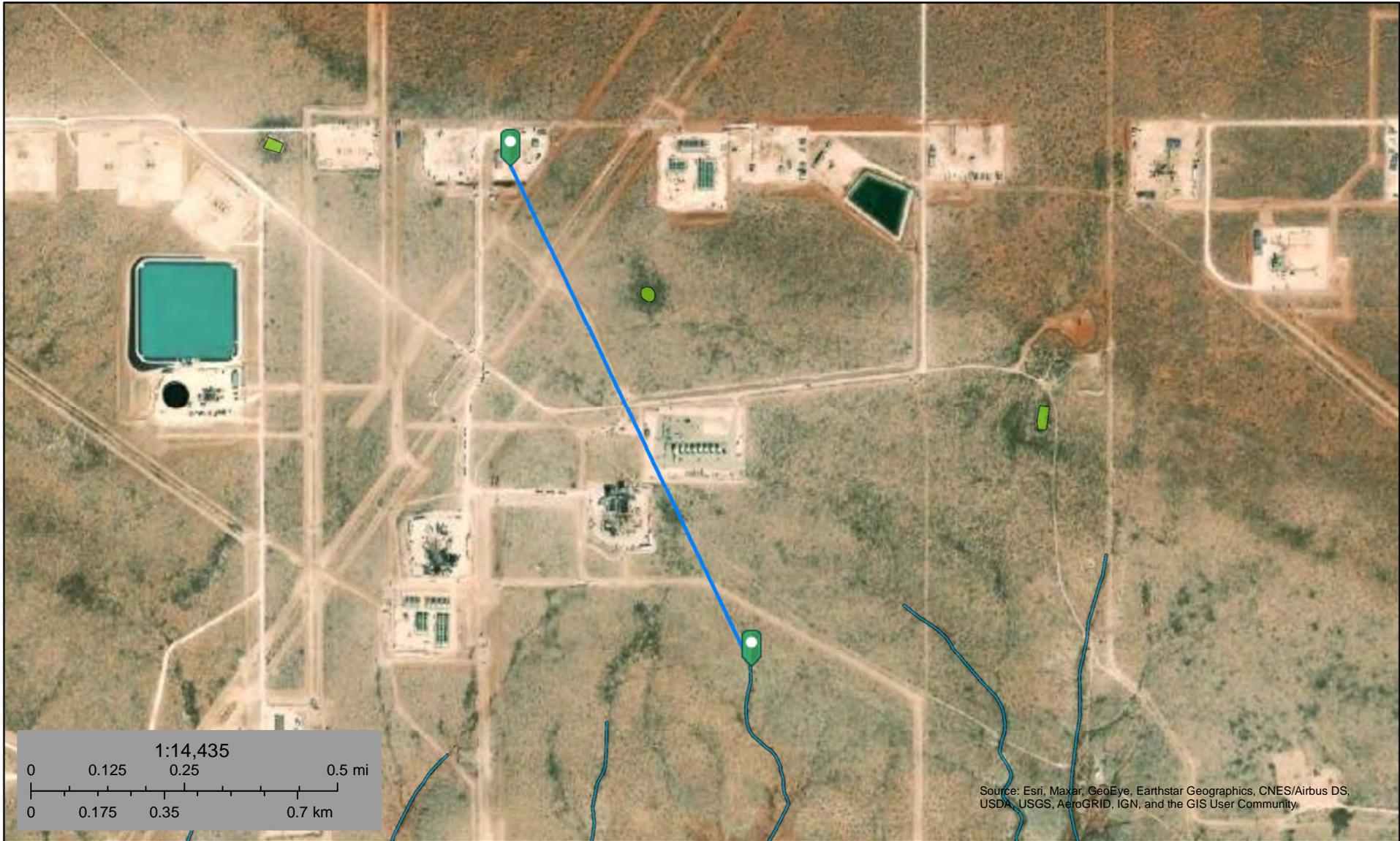
Distance to Nearest Depth to Water = 1.26 Miles

**Legend**

-  Distance = 1.26 Miles
-  DTW = 280ft - C 04537 POD1
-  Point of Release
-  Red Hills Facility Pad 5



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



February 23, 2022

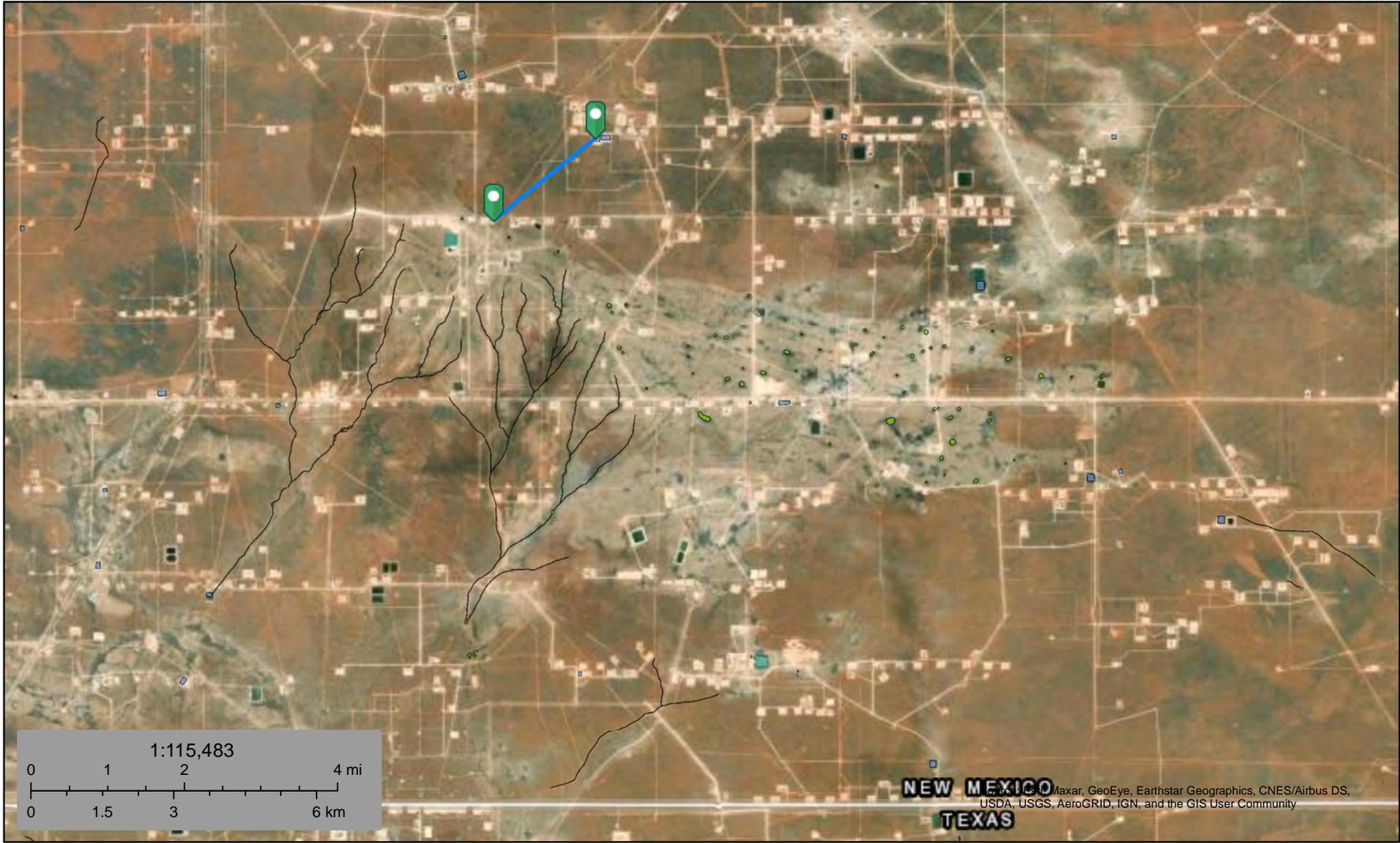
### Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond

-  Lake
-  Other
-  Riverine

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



February 23, 2022

**Wetlands**

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond

-  Lake
-  Other
-  Riverine

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

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



February 23, 2022

**Wetlands**

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond

-  Lake
-  Other
-  Riverine

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

# Red Hills Facility Pad 5

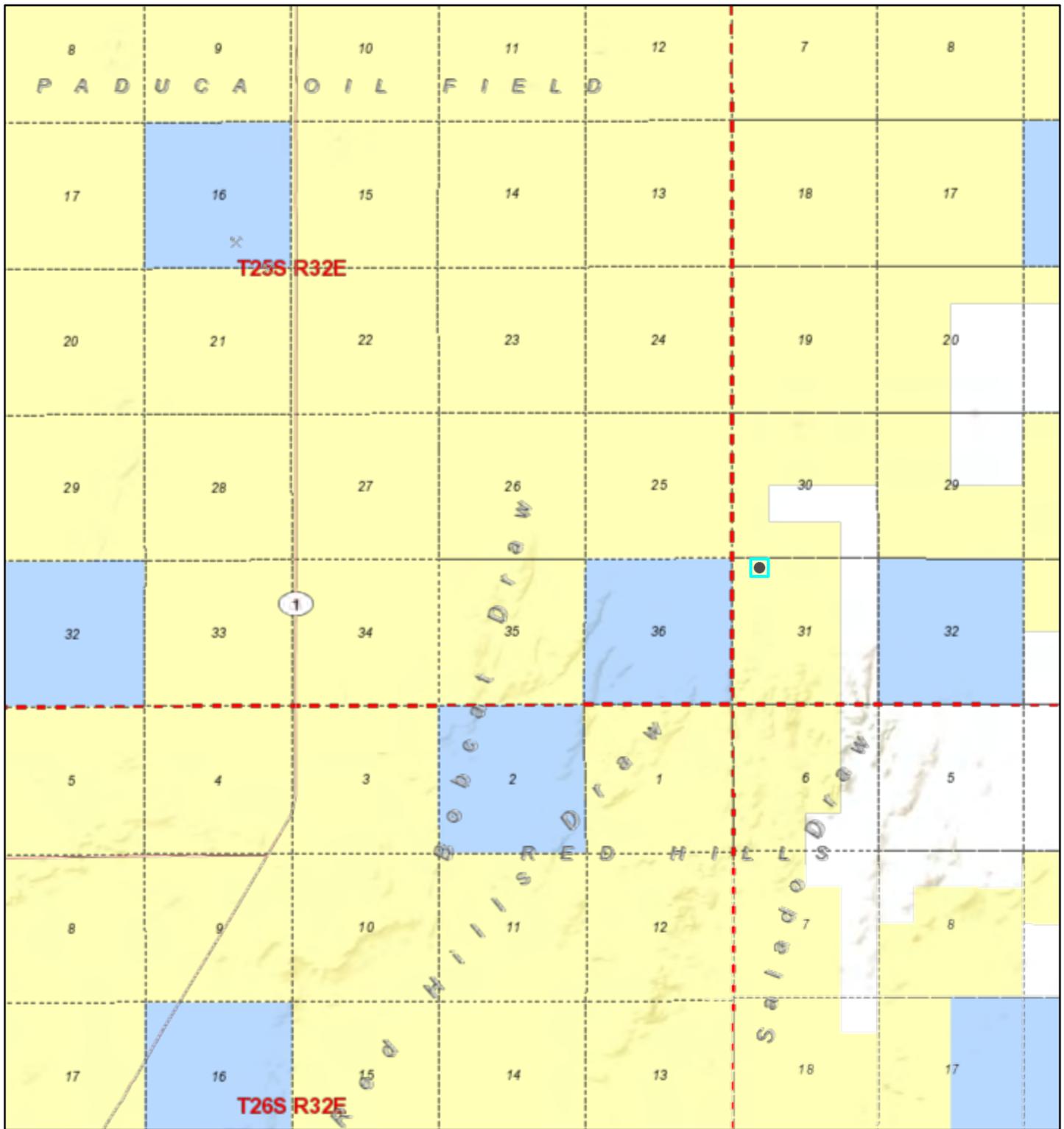
Distance to Nearest Residence = 6.02 Miles

## Legend

-  Distance to Nearest Residence = 6.02 Miles
-  Nearest Residence
-  Red Hills Facility Pad 5



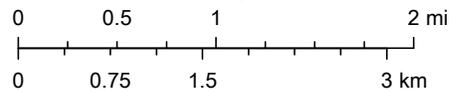
# Active Mines Near Red Hills Facility Pad 5



2/23/2022, 2:17:14 PM

1:72,224

- Township / Range
- Sections
- Land Ownership
  - Bureau of Land Management
  - Bureau of Reclamation
  - Department of Agriculture
  - Department of Defense
  - Department of Energy
  - National Park Service
  - Private Land
  - State Game and Fish
  - State Land
  - State Parks
  - Tribal

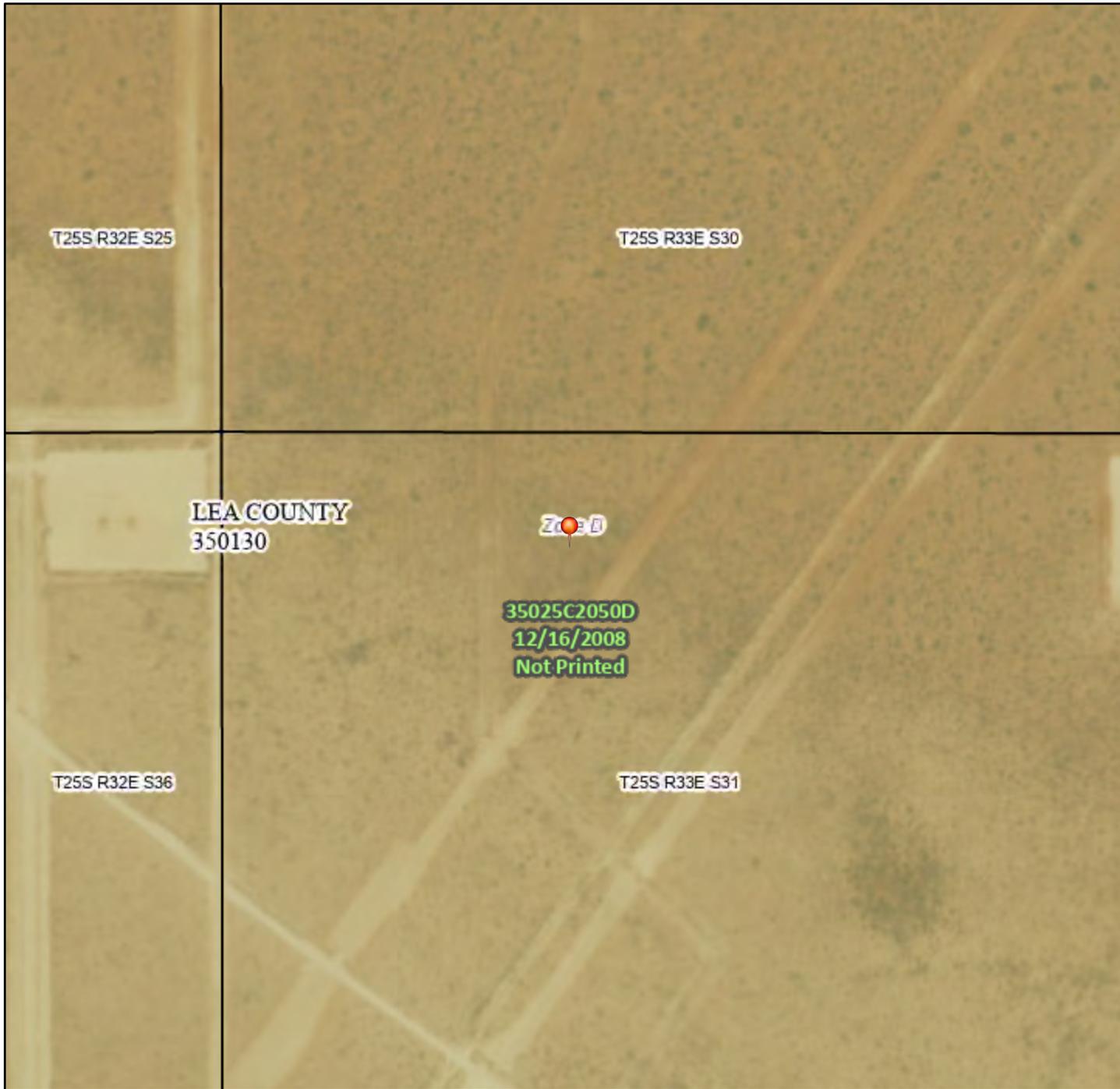


U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

# National Flood Hazard Layer FIRMMette



103°37'19"W 32°5'52"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**
  - Cross Sections with 1% Annual Chance Water Surface Elevation (20.2, 17.5)
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
- 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 2/23/2022 at 4:39 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

# ATTACHMENT D

## Karst Map

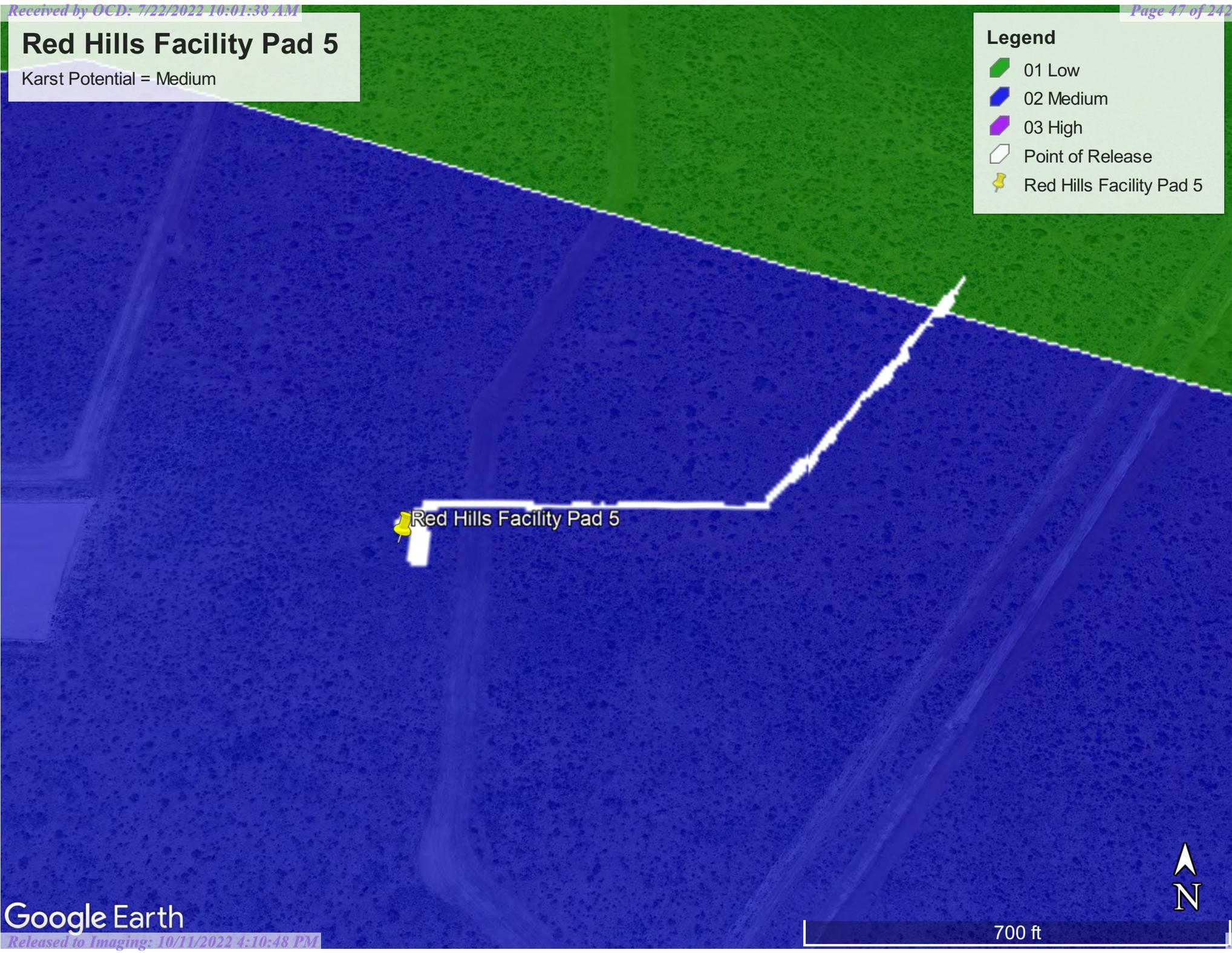


# Red Hills Facility Pad 5

Karst Potential = Medium

## Legend

- 01 Low
- 02 Medium
- 03 High
- Point of Release
- Red Hills Facility Pad 5



# ATTACHMENT E

## Envirotech Inc. Laboratory Analysis Reports



**Energizing America**

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

**Red Hills Facility Pad 5** | Incident ID: nAPP2212769524

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 5 05.07.22  
Spill

Work Order: E205127

Job Number: 21022-0001

Received: 5/24/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/1/22

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: 6/1/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Workorder: E205127  
Date Received: 5/24/2022 11:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/24/2022 11:45:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 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	5
Sample Data	6
CONF01 - 1'	6
CONF02 - 2'	7
CONF03 - 2'	8
CONF04 - 2'	9
CONF05 - 3'	10
CONF06 - 3'	11
CONF07 - 4'	12
CONF08 - 4'	13
CONF09 - 5'	14
CONF10 - 4.5'	15
CONF11 - 3.5'	16
CONF12 - 3'	17
CONF13 - 3.5'	18
CONF14 - 3.5'	19
BG01 - 0'	20
BG01 - 1'	21
QC Summary Data	22
QC - Volatile Organics by EPA 8021B	22
QC - Nonhalogenated Organics by EPA 8015D - GRO	23
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

## Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

## Sample Summary

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
06/01/22 11:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 1'	E205127-01A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF02 - 2'	E205127-02A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF03 - 2'	E205127-03A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF04 - 2'	E205127-04A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF05 - 3'	E205127-05A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF06 - 3'	E205127-06A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF07 - 4'	E205127-07A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF08 - 4'	E205127-08A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF09 - 5'	E205127-09A	Soil	05/19/22	05/24/22	Glass Jar, 4 oz.
CONF10 - 4.5'	E205127-10A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF11 - 3.5'	E205127-11A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF12 - 3'	E205127-12A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF13 - 3.5'	E205127-13A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF14 - 3.5'	E205127-14A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
BG01 - 0'	E205127-15A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
BG01 - 1'	E205127-16A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
---	---	---

**CONF01 - 1'**

**E205127-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.3 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	<b>133</b>	20.0	1	05/26/22	05/31/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF02 - 2'**

**E205127-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.6 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	289	20.0	1	05/26/22	05/31/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF03 - 2'**

**E205127-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.6 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/31/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF04 - 2'**

**E205127-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	38.1	20.0	1	05/26/22	05/31/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF05 - 3'**

**E205127-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.9 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.1 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		110 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	76.3	20.0	1	05/26/22	05/31/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF06 - 3'**

**E205127-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.8 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	36.4	20.0	1	05/26/22	05/31/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF07 - 4'**

**E205127-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.4 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF08 - 4'**

**E205127-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		107 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	326	20.0	1	05/26/22	05/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF09 - 5'**

**E205127-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.3 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.0 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF10 - 4.5'**

**E205127-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.4 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		111 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	27.1	20.0	1	05/26/22	05/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF11 - 3.5'**

**E205127-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.6 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.3 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF12 - 3'**

**E205127-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.9 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		110 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	134	20.0	1	05/26/22	05/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF13 - 3.5'**

**E205127-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.2 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**CONF14 - 3.5'**

**E205127-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
<i>Surrogate: n-Nonane</i>		110 %	50-200	05/26/22	05/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	66.9	20.0	1	05/26/22	05/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**BG01 - 0'**

**E205127-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/28/22	
<i>Surrogate: n-Nonane</i>		110 %	50-200	05/26/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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**BG01 - 1'**

**E205127-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.2 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %	70-130	05/26/22	05/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/28/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	05/26/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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#### Volatiles 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 (2222056-BLK1)**

Prepared: 05/26/22 Analyzed: 05/27/22

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	7.90		8.00		98.7	70-130			

**LCS (2222056-BS1)**

Prepared: 05/26/22 Analyzed: 05/27/22

Benzene	4.97	0.0250	5.00		99.5	70-130			
Ethylbenzene	4.47	0.0250	5.00		89.4	70-130			
Toluene	4.75	0.0250	5.00		95.1	70-130			
o-Xylene	4.65	0.0250	5.00		93.0	70-130			
p,m-Xylene	9.19	0.0500	10.0		91.9	70-130			
Total Xylenes	13.8	0.0250	15.0		92.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.8	70-130			

**LCS Dup (2222056-BSD1)**

Prepared: 05/26/22 Analyzed: 05/27/22

Benzene	5.30	0.0250	5.00		106	70-130	6.25	20	
Ethylbenzene	4.78	0.0250	5.00		95.7	70-130	6.81	20	
Toluene	5.08	0.0250	5.00		102	70-130	6.54	20	
o-Xylene	4.98	0.0250	5.00		99.5	70-130	6.76	20	
p,m-Xylene	9.83	0.0500	10.0		98.3	70-130	6.76	20	
Total Xylenes	14.8	0.0250	15.0		98.7	70-130	6.76	20	
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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#### 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 (2222056-BLK1)**

Prepared: 05/26/22 Analyzed: 05/27/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

**LCS (2222056-BS2)**

Prepared: 05/26/22 Analyzed: 05/27/22

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	70-130			

**LCS Dup (2222056-BSD2)**

Prepared: 05/26/22 Analyzed: 05/27/22

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.1	70-130	2.89	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.3	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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#### 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 (2222073-BLK1)**

Prepared: 05/26/22 Analyzed: 05/27/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

**LCS (2222073-BS1)**

Prepared: 05/26/22 Analyzed: 05/27/22

Diesel Range Organics (C10-C28)	544	25.0	500		109	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

**Matrix Spike (2222073-MS1)**

Source: E205127-02

Prepared: 05/26/22 Analyzed: 05/27/22

Diesel Range Organics (C10-C28)	544	25.0	500	ND	109	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

**Matrix Spike Dup (2222073-MSD1)**

Source: E205127-02

Prepared: 05/26/22 Analyzed: 05/27/22

Diesel Range Organics (C10-C28)	517	25.0	500	ND	103	38-132	5.18	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/1/2022 11:56:39AM
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#### 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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**LCS (2222068-BS1)**

Prepared: 05/26/22 Analyzed: 05/31/22

Chloride	262	20.0	250		105	90-110			
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**Matrix Spike (2222068-MS1)**

Source: E205127-01

Prepared: 05/26/22 Analyzed: 05/31/22

Chloride	394	20.0	250	133	104	80-120			
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**Matrix Spike Dup (2222068-MSD1)**

Source: E205127-01

Prepared: 05/26/22 Analyzed: 05/31/22

Chloride	337	20.0	250	133	81.8	80-120	15.4	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 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/01/22 11:56

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.



Chain of Custody

Client: Kaiser-Francis Oil Co  
 Project: Red Hills Facility Pad 5 05-07-22 Spill  
 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: inc.com

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# E 205127	Job Number 21022-0001	1D	2D	3D	Standard	CWA	SDWA
Analysis and Method							RCRA

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
1:54	05/18/22	Soil	1 jar	CONF01-1'	1							X		
1:57	05/18/22	Soil	1 jar	CONF02-2'	2							X		
10:00	05/18/22	Soil	1 jar	CONF03-2'	3							X		
10:36	05/18/22	Soil	1 jar	CONF04-2'	4							X		
10:41	05/18/22	Soil	1 jar	CONF05-3'	5							X		
10:44	05/18/22	Soil	1 jar	CONF06-3'	6							X		
11:22	05/20/22	Soil	1 jar	CONF07-4'	7							X		
11:25	05/20/22	Soil	1 jar	CONF08-4'	8							X		
15:23	05/19/22	Soil	1 jar	CONF09-5'	9							X		
11:29	05/20/22	Soil	1 jar	CONF10-4.5'	10							X		

Additional Instructions: preserved on ice; please cc shar. hervester cole. burton 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) Ashley Giovenco	Date 05-23-22	Time 12:00 pm	Received by: (Signature) Lequena March	Date 5-23-22	Time 12:00 pm	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) Lequena March	Date 5-23-22	Time 4:00 pm	Received by: (Signature) Caitlin Clute	Date 5/24/22	Time 11:45	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

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.

Released to Imaging: 10/11/2022 4:10:48 PM

Received by OCD: 7/22/2022 10:01:38 AM

Page 75 of 742



PO34826

Chain of Custody

Released to Imaging: 10/11/2022 4:10:48 PM

Received by OCD: 7/22/2022 10:01:38 AM

Client: Kaiser-Francis Oil Co  
 Project: Red Hills Facility Pad 5  
 Project Manager: Ashley Giovenzo  
 Address: 1224 Standpipe Rd  
Carlsbad, NM 88220  
 City, State, Zip  
 Phone: 505-382-1211  
 Email: ashley.giovenzo@wescom  
inc.com  
 Report due by:

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

Lab Use Only		TAT			EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E 205127</u>	<u>21022-0001</u>				<u>X</u>		
Analysis and Method							RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
<u>13:12</u>	<u>5/20/22</u>	<u>Soil</u>	<u>1 jar</u>	<u>CONF11-3.5'</u>	<u>11</u>
<u>15:15</u>	<u>5/20/22</u>	<u>Soil</u>	<u>1 jar</u>	<u>CONF12-3'</u>	<u>12</u>
<u>15:30</u>	<u>5/20/22</u>	<u>Soil</u>	<u>1 jar</u>	<u>CONF13-3.5'</u>	<u>13</u>
<u>14:58</u>	<u>05/20/22</u>	<u>Soil</u>	<u>1 jar</u>	<u>CONF14-3.5'</u>	<u>14</u>
<u>13:24</u>	<u>05/20/22</u>	<u>Soil</u>	<u>1 jar</u>	<u>BG01-0'</u>	<u>15</u>
<u>13:20</u>	<u>05/20/22</u>	<u>Soil</u>	<u>1 jar</u>	<u>BG01-1'</u>	<u>10</u>

State									
NM	CO	UT	AZ	TX					
<u>X</u>									
Remarks									

Additional Instructions: ? reserved on ice, please cc shar. harvester cole. burton and ashley.giovenzo@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) <u>[Signature]</u>	Date <u>05-23-22</u>	Time <u>12:00pm</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5-23-22</u>	Time <u>12:00pm</u>	Lab Use Only <u>N</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>5-23-22</u>	Time <u>4:00p</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5/24/22</u>	Time <u>11:45</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3

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 76 of 742

Envirotech Analytical Laboratory

Printed: 5/24/2022 2:10:42PM

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:	05/24/22 11:45	Work Order ID:	E205127
Phone:	(505) 382-1211	Date Logged In:	05/24/22 12:55	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	05/31/22 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

Carrier: UPS

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

**Comments/Resolution**

**Sample 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 5 05.07.22  
Spill

Work Order: E205137

Job Number: 21022-0001

Received: 5/26/2022

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/2/22

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: 6/2/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Workorder: E205137  
Date Received: 5/26/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/26/2022 10:00:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 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
CONF 17 - 2'	5
CONF 15 - 3.5'	6
CONF 16 - 3'	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 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 06/02/22 14:31
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF 17 - 2'	E205137-01A	Soil	05/24/22	05/26/22	Glass Jar, 4 oz.
CONF 15 - 3.5'	E205137-02A	Soil	05/24/22	05/26/22	Glass Jar, 4 oz.
CONF 16 - 3'	E205137-03A	Soil	05/24/22	05/26/22	Glass Jar, 4 oz.



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/2/2022 2:31:07PM
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**CONF 17 - 2'**

**E205137-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2223018
Benzene	ND	0.0250	1	06/01/22	06/01/22	
Ethylbenzene	ND	0.0250	1	06/01/22	06/01/22	
Toluene	ND	0.0250	1	06/01/22	06/01/22	
o-Xylene	ND	0.0250	1	06/01/22	06/01/22	
p,m-Xylene	ND	0.0500	1	06/01/22	06/01/22	
Total Xylenes	ND	0.0250	1	06/01/22	06/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.0 %	70-130	06/01/22	06/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2223018
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/22	06/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	06/01/22	06/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2223014
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/22	06/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/22	06/01/22	
<i>Surrogate: n-Nonane</i>		92.0 %	50-200	06/01/22	06/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2223019
Chloride	92.4	20.0	1	06/01/22	06/01/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/2/2022 2:31:07PM
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**CONF 15 - 3.5'**

**E205137-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223018
Benzene	ND	0.0250	1	06/01/22	06/01/22	
Ethylbenzene	ND	0.0250	1	06/01/22	06/01/22	
Toluene	ND	0.0250	1	06/01/22	06/01/22	
o-Xylene	ND	0.0250	1	06/01/22	06/01/22	
p,m-Xylene	ND	0.0500	1	06/01/22	06/01/22	
Total Xylenes	ND	0.0250	1	06/01/22	06/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.9 %	70-130	06/01/22	06/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223018
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/22	06/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	06/01/22	06/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223014
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/22	06/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/22	06/01/22	
<i>Surrogate: n-Nonane</i>		107 %	50-200	06/01/22	06/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223019
Chloride	130	20.0	1	06/01/22	06/01/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/2/2022 2:31:07PM
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**CONF 16 - 3'**

**E205137-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223018
Benzene	ND	0.0250	1	06/01/22	06/01/22	
Ethylbenzene	ND	0.0250	1	06/01/22	06/01/22	
Toluene	ND	0.0250	1	06/01/22	06/01/22	
o-Xylene	ND	0.0250	1	06/01/22	06/01/22	
p,m-Xylene	ND	0.0500	1	06/01/22	06/01/22	
Total Xylenes	ND	0.0250	1	06/01/22	06/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.4 %	70-130	06/01/22	06/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223018
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/22	06/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	06/01/22	06/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223014
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/22	06/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/22	06/01/22	
<i>Surrogate: n-Nonane</i>		91.4 %	50-200	06/01/22	06/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223019
Chloride	35.2	20.0	1	06/01/22	06/01/22	



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/2/2022 2:31:07PM
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#### Volatiles 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 (2223018-BLK1)**

Prepared: 06/01/22 Analyzed: 06/01/22

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	7.31		8.00		91.4	70-130			

**LCS (2223018-BS1)**

Prepared: 06/01/22 Analyzed: 06/01/22

Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.4	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.74	0.0250	5.00		94.7	70-130			
p,m-Xylene	9.42	0.0500	10.0		94.2	70-130			
Total Xylenes	14.2	0.0250	15.0		94.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			

**LCS Dup (2223018-BSD1)**

Prepared: 06/01/22 Analyzed: 06/01/22

Benzene	4.81	0.0250	5.00		96.3	70-130	0.531	20	
Ethylbenzene	4.52	0.0250	5.00		90.4	70-130	1.06	20	
Toluene	4.75	0.0250	5.00		94.9	70-130	0.532	20	
o-Xylene	4.71	0.0250	5.00		94.1	70-130	0.600	20	
p,m-Xylene	9.33	0.0500	10.0		93.3	70-130	1.02	20	
Total Xylenes	14.0	0.0250	15.0		93.6	70-130	0.879	20	
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.4	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/2/2022 2:31:07PM
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#### 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 (2223018-BLK1)**

Prepared: 06/01/22 Analyzed: 06/01/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			

**LCS (2223018-BS2)**

Prepared: 06/01/22 Analyzed: 06/01/22

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

**LCS Dup (2223018-BSD2)**

Prepared: 06/01/22 Analyzed: 06/01/22

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130	4.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/2/2022 2:31:07PM
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#### 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 (2223014-BLK1)**

Prepared: 06/01/22 Analyzed: 06/01/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n-Nonane</i>	41.0		50.0		82.0	50-200			

**LCS (2223014-BS1)**

Prepared: 06/01/22 Analyzed: 06/01/22

Diesel Range Organics (C10-C28)	474	25.0	500		94.8	38-132			
Surrogate: <i>n-Nonane</i>	43.7		50.0		87.5	50-200			

**Matrix Spike (2223014-MS1)**

Source: E205137-02

Prepared: 06/01/22 Analyzed: 06/01/22

Diesel Range Organics (C10-C28)	484	25.0	500	ND	96.8	38-132			
Surrogate: <i>n-Nonane</i>	45.0		50.0		90.0	50-200			

**Matrix Spike Dup (2223014-MSD1)**

Source: E205137-02

Prepared: 06/01/22 Analyzed: 06/01/22

Diesel Range Organics (C10-C28)	495	25.0	500	ND	99.0	38-132	2.20	20	
Surrogate: <i>n-Nonane</i>	45.8		50.0		91.6	50-200			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/2/2022 2:31:07PM
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#### 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 (2223019-BLK1)**

Prepared: 06/01/22 Analyzed: 06/01/22

Chloride	ND	20.0							
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**LCS (2223019-BS1)**

Prepared: 06/01/22 Analyzed: 06/01/22

Chloride	243	20.0	250		97.1	90-110			
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**Matrix Spike (2223019-MS1)**

Source: E205137-01

Prepared: 06/01/22 Analyzed: 06/01/22

Chloride	324	20.0	250	92.4	92.6	80-120			
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**Matrix Spike Dup (2223019-MSD1)**

Source: E205137-01

Prepared: 06/01/22 Analyzed: 06/01/22

Chloride	338	20.0	250	92.4	98.3	80-120	4.29	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 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/02/22 14:31

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.



PO# 34949

Chain of Custody

Client: Kaiser-Francis Oil Co  
 Project: Red Hills Facility Pad 5 05.07.22 Spill  
 Project Manager: Ashley Giovengo  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovengo@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.giovengo@wescominc.com

Lab Use Only		TAT			EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E205137</u>	<u>21022001</u>				<input checked="" type="checkbox"/>		
Analysis and Method							RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Analysis and Method										State				Remarks						
						508 Ag ORO/O	508 Ag ORO/O	8021 BTEX by 8021	8260 VOC by 8260	6010 Metals 6010	3000 Chloride 3000	8000 NM	8000 TX	NM	CO	UT	AZ	TX								
13:12	05/24/22	Soil	1 jar	CONF 17 - 2'	1																					
14:53	05/24/22	Soil	1 jar	CONF 15 - 3.5'	2																					
14:56	05/24/22	Soil	1 jar	CONF 16 - 3'	3																					

Additional Instructions: Preserved on ice, please cc Shar. harvester Cole. burton and ashley.giovengo@wescom inc. 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) <u>Shar. Harvester</u>	Date <u>05-25-22</u>	Time <u>11:50am</u>	Received by: (Signature) <u>Ashley Giovengo</u>	Date <u>5-25-22</u>	Time <u>11:50A</u>
Relinquished by: (Signature) <u>Shar. Harvester</u>	Date <u>05-25-22</u>	Time <u>4:15</u>	Received by: (Signature) <u>Ashley Giovengo</u>	Date <u>5/24/22</u>	Time <u>10:00</u>

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. 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.

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

Received on ice:  Y /  N

AVG Temp °C 4



Envirotech Analytical Laboratory

Printed: 5/26/2022 11:14:28AM

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: 05/26/22 10:00 Work Order ID: E205137
Phone: (505) 382-1211 Date Logged In: 05/26/22 09:29 Logged In By: Caitlin Christian
Email: ashley.giovengo@wescominc.com Due Date: 06/02/22 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

Carrier: UPS

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

Sample 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

Empty box for client instructions.

Comments/Resolution

Large empty box for comments/resolution.

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 5 05.07.22  
Spill

Work Order: E205148

Job Number: 21022-0001

Received: 5/27/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/3/22

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: 6/3/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Workorder: E205148  
Date Received: 5/27/2022 12:38:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/27/2022 12:38:00PM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 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
CONF16- 3'	5
CONF17 - 2'	6
CONF18 - 2.5'	7
CONF 19 - 2.5'	8
CONF20 - 2.5'	9
CONF21 - 2.5'	10
CONF22 - 3'	11
CONF23 - 3'	12
CONF24Wall - 1'	13
CONF25Wall - 1'	14
QC Summary Data	15
QC - Volatile Organics by EPA 8021B	15
QC - Nonhalogenated Organics by EPA 8015D - GRO	16
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	17
QC - Anions by EPA 300.0/9056A	18
Definitions and Notes	19
Chain of Custody etc.	20

### Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 06/03/22 14:59
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF16- 3'	E205148-01A	Solid	05/24/22	05/27/22	Glass Jar, 4 oz.
CONF17 - 2'	E205148-02A	Solid	05/24/22	05/27/22	Glass Jar, 4 oz.
CONF18 - 2.5'	E205148-03A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF 19 - 2.5'	E205148-04A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF20 - 2.5'	E205148-05A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF21 - 2.5'	E205148-06A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF22 - 3'	E205148-07A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF23 - 3'	E205148-08A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF24Wall - 1'	E205148-09A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF25Wall - 1'	E205148-10A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF16- 3'**  
**E205148-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/02/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/02/22	
Toluene	ND	0.0313	1	06/02/22	06/02/22	
o-Xylene	ND	0.0313	1	06/02/22	06/02/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/02/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.4 %	70-130	06/02/22	06/02/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	06/02/22	06/02/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		110 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	48.3	20.0	1	06/02/22	06/02/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF17 - 2'**

**E205148-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/02/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/02/22	
Toluene	ND	0.0313	1	06/02/22	06/02/22	
o-Xylene	ND	0.0313	1	06/02/22	06/02/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/02/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.4 %	70-130	06/02/22	06/02/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %	70-130	06/02/22	06/02/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	98.6	20.0	1	06/02/22	06/02/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF18 - 2.5'**

**E205148-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/02/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/02/22	
Toluene	ND	0.0313	1	06/02/22	06/02/22	
o-Xylene	ND	0.0313	1	06/02/22	06/02/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/02/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	06/02/22	06/02/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	06/02/22	06/02/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	136	20.0	1	06/02/22	06/02/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF 19 - 2.5'**

**E205148-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		97.8 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	ND	20.0	1	06/02/22	06/02/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF20 - 2.5'**

**E205148-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.9 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	108	20.0	1	06/02/22	06/02/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF21 - 2.5'**

**E205148-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	222	20.0	1	06/02/22	06/02/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF22 - 3'**

**E205148-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		99.9 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	32.8	20.0	1	06/02/22	06/02/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF23 - 3'**

**E205148-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.5 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	62.5	20.0	1	06/02/22	06/02/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF24Wall - 1'**

**E205148-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	ND	20.0	1	06/02/22	06/02/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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**CONF25Wall - 1'**

**E205148-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	06/02/22	06/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	06/02/22	06/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2223034
Chloride	ND	20.0	1	06/02/22	06/02/22	



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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#### 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 (2223030-BLK1)**

Prepared: 06/02/22 Analyzed: 06/03/22

Benzene	ND	0.0313							
Ethylbenzene	ND	0.0313							
Toluene	ND	0.0313							
o-Xylene	ND	0.0313							
p,m-Xylene	ND	0.0625							
Total Xylenes	ND	0.0313							
Surrogate: 4-Bromochlorobenzene-PID	10.1		10.0		101	70-130			

**LCS (2223030-BS1)**

Prepared: 06/02/22 Analyzed: 06/03/22

Benzene	6.09	0.0313	6.25		97.5	70-130			
Ethylbenzene	5.82	0.0313	6.25		93.2	70-130			
Toluene	6.12	0.0313	6.25		97.9	70-130			
o-Xylene	6.16	0.0313	6.25		98.5	70-130			
p,m-Xylene	12.1	0.0625	12.5		96.4	70-130			
Total Xylenes	18.2	0.0313	18.8		97.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	10.2		10.0		102	70-130			

**Matrix Spike (2223030-MS1)**

Source: E205148-01

Prepared: 06/02/22 Analyzed: 06/03/22

Benzene	6.46	0.0313	6.25	ND	103	54-133			
Ethylbenzene	5.81	0.0313	6.25	ND	93.0	61-133			
Toluene	6.21	0.0313	6.25	ND	99.3	61-130			
o-Xylene	6.03	0.0313	6.25	ND	96.4	63-131			
p,m-Xylene	12.0	0.0625	12.5	ND	95.9	63-131			
Total Xylenes	18.0	0.0313	18.8	ND	96.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	9.78		10.0		97.8	70-130			

**Matrix Spike Dup (2223030-MSD1)**

Source: E205148-01

Prepared: 06/02/22 Analyzed: 06/03/22

Benzene	6.00	0.0313	6.25	ND	95.9	54-133	7.42	20	
Ethylbenzene	5.77	0.0313	6.25	ND	92.3	61-133	0.749	20	
Toluene	6.04	0.0313	6.25	ND	96.6	61-130	2.77	20	
o-Xylene	6.03	0.0313	6.25	ND	96.4	63-131	0.0415	20	
p,m-Xylene	11.9	0.0625	12.5	ND	95.1	63-131	0.806	20	
Total Xylenes	17.9	0.0313	18.8	ND	95.6	63-131	0.550	20	
Surrogate: 4-Bromochlorobenzene-PID	9.95		10.0		99.5	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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#### 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 (2223030-BLK1)**

Prepared: 06/02/22 Analyzed: 06/03/22

Gasoline Range Organics (C6-C10)	ND	25.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.12		10.0		91.2	70-130			

**LCS (2223030-BS2)**

Prepared: 06/02/22 Analyzed: 06/03/22

Gasoline Range Organics (C6-C10)	57.8	25.0	62.5		92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.25		10.0		92.5	70-130			

**Matrix Spike (2223030-MS2)**

Source: E205148-01

Prepared: 06/02/22 Analyzed: 06/03/22

Gasoline Range Organics (C6-C10)	60.5	25.0	62.5	ND	96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.23		10.0		92.3	70-130			

**Matrix Spike Dup (2223030-MSD2)**

Source: E205148-01

Prepared: 06/02/22 Analyzed: 06/03/22

Gasoline Range Organics (C6-C10)	59.0	25.0	62.5	ND	94.4	70-130	2.57	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.18		10.0		91.8	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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#### 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 (2223044-BLK1)**

Prepared: 06/02/22 Analyzed: 06/03/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			

**LCS (2223044-BS1)**

Prepared: 06/02/22 Analyzed: 06/03/22

Diesel Range Organics (C10-C28)	503	25.0	500		101	38-132			
Surrogate: n-Nonane	44.9		50.0		89.7	50-200			

**Matrix Spike (2223044-MS1)**

Source: E205148-05

Prepared: 06/02/22 Analyzed: 06/03/22

Diesel Range Organics (C10-C28)	528	25.0	500	ND	106	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			

**Matrix Spike Dup (2223044-MSD1)**

Source: E205148-05

Prepared: 06/02/22 Analyzed: 06/03/22

Diesel Range Organics (C10-C28)	518	25.0	500	ND	104	38-132	1.90	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/3/2022 2:59:40PM
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#### 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 (2223034-BLK1)**

Prepared: 06/02/22 Analyzed: 06/02/22

Chloride	ND	20.0							
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**LCS (2223034-BS1)**

Prepared: 06/02/22 Analyzed: 06/02/22

Chloride	260	20.0	250		104	90-110			
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**Matrix Spike (2223034-MS1)**

Source: E205148-01

Prepared: 06/02/22 Analyzed: 06/02/22

Chloride	300	20.0	250	48.3	101	80-120			
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**Matrix Spike Dup (2223034-MSD1)**

Source: E205148-01

Prepared: 06/02/22 Analyzed: 06/02/22

Chloride	305	20.0	250	48.3	103	80-120	1.87	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 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/03/22 14:59

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.



Project Information

Chain of Custody

PO 34986

Client: Kaiser Francis Oil Co		Bill To		Lab Use Only				TAT			EPA Program												
Project: Red Hills Facility Pad 5 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		E205148		21022-0001					x												
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method																			
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		RCRA																			
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com		State																			
Email: ashley.giovengo@wescominc.com		Report due by:		<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>AZ</td> <td>TX</td> </tr> <tr> <td>x</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										NM	CO	UT	AZ	TX	x				
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
14:53	5/24/22	Soil	1 Jar	CONF15 - 3.5'	1							X		
14:56	5/24/22	Soil	1 Jar	CONF16 - 3'	2							X		
13:12	5/24/22	Soil	1 Jar	CONF17 - 2'	3							X		
13:13	5/25/22	Soil	1 Jar	CONF 18 - 2.5'	4							X		
13:16	5/25/22	Soil	1 Jar	CONF19 - 2.5'	5							X		
14:23	5/25/22	Soil	1 Jar	CONF20 - 2.5'	6							X		
14:27	5/25/22	Soil	1 Jar	CONF21 - 2.5'	7							X		
15:20	5/25/22	Soil	1 Jar	CONF22 - 3'	8							X		
15:24	5/25/22	Soil	1 Jar	CONF23 - 3'	9							X		
16:42	5/25/22	Soil	1 Jar	CONF24Wall - 1'	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)		Date	Time	Lab Use Only	
<i>[Signature]</i>		05-26-22	10:19am	<i>[Signature]</i>		5-26-22	10:20A	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>		5-26-22	17:00p	<i>[Signature]</i>		5-26-22	18:40		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C	
<i>[Signature]</i>		5-27-22	12:38	<i>[Signature]</i>		5/27/22	12:38	4	

Sample Matrix: S - Soil, Sd - Solid, Sl - 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.



Released to Imaging: 10/11/2022 4:10:48 PM

Received by OGD: 7/22/2022 10:01:38 AM

Client: Kaiser Francis Oil Co		Bill To		Lab Use Only				TAT			EPA Program		
Project: Red Hills Facility Pad 5 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		E205148		21020-0001					x		
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method									
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		DRO/DRO 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
Email: ashley.giovengo@wescominc.com		Report due by:		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
16:21	5/25/22	Soil	1 Jar	CONF25Wall - 1'	11							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
<i>[Signature]</i>	05-26-22	10:19am	<i>[Signature]</i>	5-26-22	10:20	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<i>[Signature]</i>	5-26-22	17:00P	<i>[Signature]</i>	5-26-22	18:40	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
<i>[Signature]</i>	5-27-22	12:38	<i>[Signature]</i>	5/27/22	12:38	AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sc - 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 Imaging 12

Project Information

Chain of Custody

PO 34986

Page 1 of 1

Client: Kaiser Francis Oil Co		Bill To		Lab Use Only		TAT		EPA Program			
Project: Red Hills Facility Pad 5 05.07.22 Spill		Attention: Wescom Inc		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Gioveno		Address: 1224 Standpipe Rd		E205148	21022-0001				x		
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method							
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
Phone: 505-382-1211		Email: ashley.gioveno@wescominc.com		State							
Email: ashley.gioveno@wescominc.com		Report due by:		NM CO UT AZ TX							
				x							

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
14:53	5/24/22	Soil	1 Jar	CONF15 - 3.5'	1							X		Sample not received
14:56	5/24/22	Soil	1 Jar	CONF16 - 3'	1 2							X		5/27/22 CC
13:12	5/24/22	Soil	1 Jar	CONF17 - 2'	2 3							X		
13:13	5/25/22	Soil	1 Jar	CONF 18 - 2.5'	3 4							X		
13:16	5/25/22	Soil	1 Jar	CONF19 - 2.5'	4 5							X		
14:23	5/25/22	Soil	1 Jar	CONF20 - 2.5'	5 6							X		
14:27	5/25/22	Soil	1 Jar	CONF21 - 2.5'	6 7							X		
15:20	5/25/22	Soil	1 Jar	CONF22 - 3'	7 8							X		
15:24	5/25/22	Soil	1 Jar	CONF23 - 3'	8 9							X		
16:42	5/25/22	Soil	1 Jar	CONF24Wall - 1'	9 10							X		

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.gioveno@wescominc.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. 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 05-26-22	Time 10:19 am	Received by: (Signature) <i>[Signature]</i>	Date 5-26-22	Time 10:20 A	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
Relinquished by: (Signature) <i>[Signature]</i>	Date 5-26-22	Time 17:00	Received by: (Signature) <i>[Signature]</i>	Date 5-26-22	Time 18:40	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <i>[Signature]</i>	Date 5-27-22	Time 12:38	Received by: (Signature) <i>[Signature]</i>	Date 5/27/22	Time 12:38	AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sl - 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.



Client: Kaiser Francis Oil Co		Bill To		Lab Use Only		TAT		EPA Program			
Project: Red Hills Facility Pad 5 05.07.22 Spill		Attention: Wescom Inc		Lab WO#		1D 2D 3D		CWA SDWA			
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd		E205148 21022-0001		Standard		RCRA			
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method							
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	BGDOC NM	BGDOC TX	Remarks
16:21	5/25/22	Soil	1 Jar	CONF25Wall - 1'	10 H							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) <i>Uguzna Lopez</i>	Date 05-26-22	Time 10:19am	Received by: (Signature) <i>Lequese March</i>	Date 5-26-22	Time 10:20	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>Lequese March</i>	Date 5-26-22	Time 17:00P	Received by: (Signature) <i>[Signature]</i>	Date 5-26-22	Time 18:40	
Relinquished by: (Signature) <i>[Signature]</i>	Date 5-27-22	Time 12:38	Received by: (Signature) <i>Carla Chata</i>	Date 5/27/22	Time 12:38	

Sample Matrix: S - Soil, Sc - 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: 6/1/2022 4:09:36PM

**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:	05/27/22 12:38	Work Order ID:	E205148
Phone:	(505) 382-1211	Date Logged In:	05/27/22 11:55	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	06/03/22 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? No
- 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

Carrier: Courier

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

**Sample 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

**Comments/Resolution**

Sample #1 CONF15 - 3.5 not received.

**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 5 05.07.22 Spill
Work Order:	E206034
Job Number:	21022-0001
Received:	6/4/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/10/22

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: 6/10/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Workorder: E206034  
Date Received: 6/4/2022 12:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/4/2022 12:00:00PM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 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
CONF26 - 3'	5
CONF27 - 2.5'	6
CONF28 - 2'	7
CONF29 - 2'	8
CONF30 - 3'	9
CONF31 - 2'	10
CONF32 - 3.5'	11
CONF33 - 2.5'	12
CONF34 - 3'	13
QC Summary Data	14
QC - Volatile Organics by EPA 8021B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

### Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 06/10/22 16:14
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF26 - 3'	E206034-01A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF27 - 2.5'	E206034-02A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF28 - 2'	E206034-03A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF29 - 2'	E206034-04A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF30 - 3'	E206034-05A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF31 - 2'	E206034-06A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF32 - 3.5'	E206034-07A	Soil	06/02/22	06/04/22	Glass Jar, 4 oz.
CONF33 - 2.5'	E206034-08A	Soil	06/02/22	06/04/22	Glass Jar, 4 oz.
CONF34 - 3'	E206034-09A	Soil	06/02/22	06/04/22	Glass Jar, 4 oz.



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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**CONF26 - 3'**

**E206034-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.6 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.7 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
<i>Surrogate: n-Nonane</i>		85.2 %	50-200	06/09/22	06/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224034
Chloride	ND	20.0	1	06/08/22	06/09/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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**CONF27 - 2.5'**

**E206034-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.9 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
<i>Surrogate: n-Nonane</i>		116 %	50-200	06/09/22	06/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2224034
Chloride	24.4	20.0	1	06/08/22	06/09/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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**CONF28 - 2'**

**E206034-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.2 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	06/09/22	06/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2224034
Chloride	239	20.0	1	06/08/22	06/09/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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**CONF29 - 2'**

**E206034-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.2 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.2 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
<i>Surrogate: n-Nonane</i>		110 %	50-200	06/09/22	06/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2224034
Chloride	388	20.0	1	06/08/22	06/09/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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**CONF30 - 3'**

**E206034-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.8 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.6 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
<i>Surrogate: n-Nonane</i>		113 %	50-200	06/09/22	06/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2224034
Chloride	181	20.0	1	06/08/22	06/09/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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**CONF31 - 2'**

**E206034-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.7 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.6 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>		112 %	50-200	06/09/22	06/10/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2224034
Chloride	68.2	20.0	1	06/08/22	06/09/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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**CONF32 - 3.5'**

**E206034-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.8 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>		111 %	50-200	06/09/22	06/10/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2224034
Chloride	56.0	20.0	1	06/08/22	06/09/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
---	---	---

**CONF33 - 2.5'**

**E206034-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.1 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.5 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>		114 %	50-200	06/09/22	06/10/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2224034
Chloride	97.0	20.0	1	06/08/22	06/09/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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**CONF34 - 3'**

**E206034-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.6 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.8 %	70-130	06/08/22	06/10/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>		113 %	50-200	06/09/22	06/10/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2224034
Chloride	ND	20.0	1	06/08/22	06/09/22	



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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#### 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 (2224029-BLK1)

Prepared: 06/08/22 Analyzed: 06/10/22

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	7.58		8.00		94.7	70-130			

#### LCS (2224029-BS1)

Prepared: 06/08/22 Analyzed: 06/10/22

Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.5	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.90	0.0250	5.00		98.0	70-130			
p,m-Xylene	9.74	0.0500	10.0		97.4	70-130			
Total Xylenes	14.6	0.0250	15.0		97.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.8	70-130			

#### LCS Dup (2224029-BS1)

Prepared: 06/08/22 Analyzed: 06/10/22

Benzene	5.14	0.0250	5.00		103	70-130	1.24	20	
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130	1.20	20	
Toluene	4.95	0.0250	5.00		99.1	70-130	1.20	20	
o-Xylene	4.84	0.0250	5.00		96.7	70-130	1.30	20	
p,m-Xylene	9.62	0.0500	10.0		96.2	70-130	1.24	20	
Total Xylenes	14.5	0.0250	15.0		96.4	70-130	1.26	20	
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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#### 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 (2224029-BLK1)**

Prepared: 06/08/22 Analyzed: 06/10/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			

**LCS (2224029-BS2)**

Prepared: 06/08/22 Analyzed: 06/10/22

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

**LCS Dup (2224029-BSD2)**

Prepared: 06/08/22 Analyzed: 06/10/22

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.5	70-130	1.94	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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#### 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 (2224049-BLK1)**

Prepared: 06/09/22 Analyzed: 06/09/22

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 (2224049-BS1)**

Prepared: 06/09/22 Analyzed: 06/09/22

Diesel Range Organics (C10-C28)	503	25.0	500		101	38-132			
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			

**Matrix Spike (2224049-MS1)**

Source: E206034-07

Prepared: 06/09/22 Analyzed: 06/09/22

Diesel Range Organics (C10-C28)	410	25.0	500	ND	82.1	38-132			
Surrogate: n-Nonane	26.3		50.0		52.6	50-200			

**Matrix Spike Dup (2224049-MSD1)**

Source: E206034-07

Prepared: 06/09/22 Analyzed: 06/09/22

Diesel Range Organics (C10-C28)	349	25.0	500	ND	69.8	38-132	16.1	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/10/2022 4:14:18PM
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#### 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 (2224034-BLK1)**

Prepared: 06/08/22 Analyzed: 06/09/22

Chloride ND 20.0

**LCS (2224034-BS1)**

Prepared: 06/08/22 Analyzed: 06/10/22

Chloride 253 20.0 250 101 90-110

**Matrix Spike (2224034-MS1)**

Source: E206032-01

Prepared: 06/08/22 Analyzed: 06/09/22

Chloride 291 200 250 ND 116 80-120

**Matrix Spike Dup (2224034-MSD1)**

Source: E206032-01

Prepared: 06/08/22 Analyzed: 06/09/22

Chloride 256 200 250 ND 102 80-120 12.7 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 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/10/22 16:14

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.



Chain of Custody

Client: Kaiser Francis Oil Company  
 Project: Red Hills Facility Pad 5 05.07.22  
 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  
 wescominc.com

Lab Use Only		TAT			EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E206034	21022-0001				X		
Analysis and Method							RCRA

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
09:33	06/01	Soil	1 jar	CONF26-3'	1							X		
09:40	06/01	Soil	1 jar	CONF27-2.5'	2							X		
09:49	06/01	Soil	1 jar	CONF28-2'	3							X		
11:11	06/01	Soil	1 jar	CONF29-2'	4							X		
14:23	06/01	Soil	1 jar	CONF30-3'	5							X		
13:55	06/01	Soil	1 jar	CONF31-2'	6							X		
15:35	06/02	Soil	1 jar	CONF32-3.5'	7							X		
15:49	06/02	Soil	1 jar	CONF33-2.5'	8							X		
16:10	06/02	Soil	1 jar	CONF34-3'	9							X		

Additional Instructions:

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) <i>[Signature]</i>	Date 06-03-22	Time 01:00	Received by: (Signature) <i>[Signature]</i>	Date 6-3-22	Time 1:00	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 6-3-22	Time 4:15	Received by: (Signature) <i>[Signature]</i>	Date 6/4/22	Time 12:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_  
 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. 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.

Released to Imaging: 10/11/2022 4:10:48 PM

Received by OCD: 7/22/2022 10:01:38 AM

Page 134 of 142



Envirotech Analytical Laboratory

Printed: 6/7/2022 11:37:46AM

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: 06/04/22 12:00 Work Order ID: E206034
Phone: (505) 382-1211 Date Logged In: 06/06/22 09:59 Logged In By: Caitlin Christian
Email: ashley.giovengo@wescominc.com Due Date: 06/10/22 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

Carrier: UPS

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

Sample 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: UPS

Client Instruction

Empty rectangular box for client instructions.

Comments/Resolution

Large empty rectangular box for comments or resolution.

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 5 05.07.22 Spill
Work Order:	E206050
Job Number:	21022-0001
Received:	6/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/14/22

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: 6/14/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Workorder: E206050  
Date Received: 6/8/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2022 10:00:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 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
CONF35 - 3.5'	5
CONF36 - 3'	6
CONF37 - 3.5'	7
CONF38 - 4'	8
CONF39 - 2.5'	9
CONF40 - 4'	10
CONF41 - 3'	11
CONF42Wall - 1'	12
CONF43Wall - 1'	13
QC Summary Data	14
QC - Volatile Organics by EPA 8021B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

### Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 06/14/22 16:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF35 - 3.5'	E206050-01A	Soil	06/03/22	06/08/22	Glass Jar, 4 oz.
CONF36 - 3'	E206050-02A	Soil	06/03/22	06/08/22	Glass Jar, 4 oz.
CONF37 - 3.5'	E206050-03A	Soil	06/03/22	06/08/22	Glass Jar, 4 oz.
CONF38 - 4'	E206050-04A	Soil	06/03/22	06/08/22	Glass Jar, 4 oz.
CONF39 - 2.5'	E206050-05A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.
CONF40 - 4'	E206050-06A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.
CONF41 - 3'	E206050-07A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.
CONF42 Wall - 1'	E206050-08A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.
CONF43 Wall - 1'	E206050-09A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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**CONF35 - 3.5'**

**E206050-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.8 %	70-130		06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
<i>Surrogate: n-Nonane</i>						
	98.4 %	50-200		06/13/22	06/13/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2224072
Chloride	306	20.0	1	06/10/22	06/13/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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**CONF36 - 3'**

**E206050-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.6 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
<i>Surrogate: n-Nonane</i>		96.7 %	50-200	06/13/22	06/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2224072
Chloride	150	20.0	1	06/10/22	06/13/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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**CONF37 - 3.5'**

**E206050-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.8 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
<i>Surrogate: n-Nonane</i>		106 %	50-200	06/13/22	06/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2224072
Chloride	221	20.0	1	06/10/22	06/13/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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**CONF38 - 4'**

**E206050-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.7 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	06/13/22	06/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2224072
Chloride	530	20.0	1	06/10/22	06/13/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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**CONF39 - 2.5'**

**E206050-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.6 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.7 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
<i>Surrogate: n-Nonane</i>		116 %	50-200	06/13/22	06/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2224072
Chloride	ND	20.0	1	06/10/22	06/13/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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**CONF40 - 4'**

**E206050-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.4 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	06/13/22	06/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2224072
Chloride	ND	20.0	1	06/10/22	06/13/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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**CONF41 - 3'**

**E206050-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.8 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	06/13/22	06/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2224072
Chloride	377	20.0	1	06/10/22	06/13/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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**CONF42Wall - 1'**

**E206050-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.8 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
<i>Surrogate: n-Nonane</i>		101 %	50-200	06/13/22	06/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2224072
Chloride	32.7	20.0	1	06/10/22	06/13/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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**CONF43Wall - 1'**

**E206050-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.9 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %	70-130	06/10/22	06/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
<i>Surrogate: n-Nonane</i>		99.4 %	50-200	06/13/22	06/13/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2224072
Chloride	183	20.0	1	06/10/22	06/13/22	



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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#### Volatiles 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 (2224085-BLK1)**

Prepared: 06/10/22 Analyzed: 06/13/22

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	7.36		8.00		92.1	70-130			

**LCS (2224085-BS1)**

Prepared: 06/10/22 Analyzed: 06/13/22

Benzene	5.41	0.0250	5.00		108	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	5.21	0.0250	5.00		104	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

**LCS Dup (2224085-BSD1)**

Prepared: 06/10/22 Analyzed: 06/14/22

Benzene	5.34	0.0250	5.00		107	70-130	1.34	20	
Ethylbenzene	4.84	0.0250	5.00		96.8	70-130	1.15	20	
Toluene	5.15	0.0250	5.00		103	70-130	1.29	20	
o-Xylene	5.03	0.0250	5.00		101	70-130	1.15	20	
p,m-Xylene	9.97	0.0500	10.0		99.7	70-130	1.12	20	
Total Xylenes	15.0	0.0250	15.0		100	70-130	1.13	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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#### 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 (2224085-BLK1)**

Prepared: 06/10/22 Analyzed: 06/13/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.3	70-130			

**LCS (2224085-BS2)**

Prepared: 06/10/22 Analyzed: 06/14/22

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

**LCS Dup (2224085-BSD2)**

Prepared: 06/10/22 Analyzed: 06/14/22

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130	4.04	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
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#### 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 (2225001-BLK1)**

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

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.7		50.0		101	50-200			

**LCS (2225001-BS1)**

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

Diesel Range Organics (C10-C28)	461	25.0	500		92.3	38-132			
Surrogate: <i>n</i> -Nonane	52.1		50.0		104	50-200			

**Matrix Spike (2225001-MS1)**

Source: E206050-04

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

Diesel Range Organics (C10-C28)	469	25.0	500	ND	93.7	38-132			
Surrogate: <i>n</i> -Nonane	53.8		50.0		108	50-200			

**Matrix Spike Dup (2225001-MSD1)**

Source: E206050-04

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

Diesel Range Organics (C10-C28)	472	25.0	500	ND	94.4	38-132	0.717	20	
Surrogate: <i>n</i> -Nonane	53.4		50.0		107	50-200			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/14/2022 4:24:49PM
---	---	---

#### 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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

**Blank (2224072-BLK1)**

Prepared: 06/10/22 Analyzed: 06/13/22

Chloride	ND	20.0							
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**LCS (2224072-BS1)**

Prepared: 06/10/22 Analyzed: 06/13/22

Chloride	241	20.0	250		96.5	90-110			
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**Matrix Spike (2224072-MS1)**

Source: E206050-01

Prepared: 06/10/22 Analyzed: 06/13/22

Chloride	540	20.0	250	306	93.3	80-120			
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**Matrix Spike Dup (2224072-MSD1)**

Source: E206050-01

Prepared: 06/10/22 Analyzed: 06/13/22

Chloride	545	20.0	250	306	95.4	80-120	0.943	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 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/22 16:24

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.



Released to Imaging: 10/11/2022 4:10:48 PM

Received by OCD: 7/22/2022 10:01:38 AM

Client: Kaiser Francis Oil Co		Bill To		Lab Use Only			TAT			EPA Program			
Project: Red Hills Facility Pad 5 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		E261050	21022-0001					x			
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method									
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX	RCRA
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com		State									
Email: ashley.giovengo@wescominc.com		Report due by:		NM	CO	UT	AZ	TX					
				x									

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
15:36	6/3/22	Soil	1 Jar	CONF35 - 3.5'	1							X		
14:51	6/3/22	Soil	1 Jar	CONF36 - 3'	2							X		
15:51	6/3/22	Soil	1 Jar	CONF37 - 3.5'	3							X		
16:14	6/3/22	Soil	1 Jar	CONF 38 - 4'	4							X		
12:44	6/6/22	Soil	1 Jar	CONF39 - 2.5'	5							X		
16:41	6/6/22	Soil	1 Jar	CONF40 - 4'	6							X		
16:11	6/6/22	Soil	1 Jar	CONF41 - 3'	7							X		
15:10	6/6/22	Soil	1 Jar	CONF42Wall - 1'	8							X		
15:43	6/6/22	Soil	1 Jar	CONF43Wall - 1'	9							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. 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>Ashley Giovengo</i>	Date 06-07-22	Time 12:18p	Received by: (Signature) <i>Leguina M...</i>	Date 6-7-22	Time 12:11p	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
Relinquished by: (Signature) <i>Leguina M...</i>	Date 6-7-22	Time 5:00p	Received by: (Signature) <i>Carla Ch...</i>	Date 6/8/22	Time 10:00	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

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 15 of 242

Envirotech Analytical Laboratory

Printed: 6/9/2022 10:51:05AM

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: 06/08/22 10:00 Work Order ID: E206050
Phone: (505) 382-1211 Date Logged In: 06/08/22 11:21 Logged In By: Caitlin Christian
Email: ashley.giovengo@wescominc.com Due Date: 06/14/22 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

Carrier: UPS

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

Sample 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

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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 5 05.07.22 Spill
Work Order:	E206085
Job Number:	21022-0001
Received:	6/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/22/22

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: 6/22/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Workorder: E206085  
Date Received: 6/14/2022 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2022 1:00:00PM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 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
CONF44-2.5'	5
CONF45-1'	6
CONF46-1'	7
CONF47-1'	8
CONF48-1'	9
CONF49-1'	10
CONF50-1.5'	11
CONF51-1'	12
CONF52Wall-.5'	13
CONF53Wall-05'	14
QC Summary Data	15
QC - Volatile Organic Compounds by EPA 8260B	15
QC - Nonhalogenated Organics by EPA 8015D - GRO	16
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	17
QC - Anions by EPA 300.0/9056A	18
Definitions and Notes	19
Chain of Custody etc.	20

### Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 06/22/22 15:45
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF44-2.5'	E206085-01A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF45-1'	E206085-02A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF46-1'	E206085-03A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF47-1'	E206085-04A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF48-1'	E206085-05A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF49-1'	E206085-06A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF50-1.5'	E206085-07A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF51-1'	E206085-08A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF52Wall-.5'	E206085-09A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF53Wall-05'	E206085-10A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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## CONF44-2.5'

## E206085-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/20/22	
Toluene	ND	0.0250	1	06/15/22	06/20/22	
o-Xylene	ND	0.0250	1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>	95.6 %	70-130		06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.1 %	70-130		06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>	103 %	70-130		06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>	95.6 %	70-130		06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.1 %	70-130		06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>	103 %	70-130		06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>	91.9 %	50-200		06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	56.2	20.0	1	06/15/22	06/17/22	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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## CONF45-1'

## E206085-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/20/22	
Toluene	ND	0.0250	1	06/15/22	06/20/22	
o-Xylene	ND	0.0250	1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		95.0 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		95.0 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	ND	20.0	1	06/15/22	06/17/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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**CONF46-1'**  
**E206085-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/20/22	
Toluene	ND	0.0250	1	06/15/22	06/20/22	
o-Xylene	ND	0.0250	1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		95.0 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.9 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		95.0 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.9 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>		133 %	50-200	06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	ND	20.0	1	06/15/22	06/17/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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**CONF47-1'**  
**E206085-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/20/22	
Toluene	ND	0.0250	1	06/15/22	06/20/22	
o-Xylene	ND	0.0250	1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		94.7 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		94.7 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>		107 %	50-200	06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	143	20.0	1	06/15/22	06/17/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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**CONF48-1'**  
**E206085-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/20/22	
Toluene	ND	0.0250	1	06/15/22	06/20/22	
o-Xylene	ND	0.0250	1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		94.0 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.4 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		94.0 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.4 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	ND	20.0	1	06/15/22	06/17/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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**CONF49-1'**  
**E206085-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/20/22	
Toluene	ND	0.0250	1	06/15/22	06/20/22	
o-Xylene	ND	0.0250	1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		96.4 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		96.4 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	ND	20.0	1	06/15/22	06/17/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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**CONF50-1.5'**  
**E206085-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/20/22	
Toluene	ND	0.0250	1	06/15/22	06/20/22	
o-Xylene	ND	0.0250	1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.9 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/20/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/15/22	06/20/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.9 %	70-130	06/15/22	06/20/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/15/22	06/20/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	42.7	20.0	1	06/15/22	06/17/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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**CONF51-1'**  
**E206085-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/21/22	
Toluene	ND	0.0250	1	06/15/22	06/21/22	
o-Xylene	ND	0.0250	1	06/15/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/21/22	
<i>Surrogate: Bromofluorobenzene</i>		94.7 %	70-130	06/15/22	06/21/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	06/15/22	06/21/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	06/15/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/21/22	
<i>Surrogate: Bromofluorobenzene</i>		94.7 %	70-130	06/15/22	06/21/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	06/15/22	06/21/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	06/15/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>		114 %	50-200	06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	20.1	20.0	1	06/15/22	06/17/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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**CONF52Wall-.5'**

**E206085-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/21/22	
Toluene	ND	0.0250	1	06/15/22	06/21/22	
o-Xylene	ND	0.0250	1	06/15/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/21/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/15/22	06/21/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.2 %	70-130	06/15/22	06/21/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	06/15/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/21/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/15/22	06/21/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.2 %	70-130	06/15/22	06/21/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	06/15/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	60.5	20.0	1	06/15/22	06/17/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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**CONF53Wall-05'**

**E206085-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/21/22	
Toluene	ND	0.0250	1	06/15/22	06/21/22	
o-Xylene	ND	0.0250	1	06/15/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/21/22	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %	70-130	06/15/22	06/21/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	06/15/22	06/21/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	06/15/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/21/22	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %	70-130	06/15/22	06/21/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	06/15/22	06/21/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	06/15/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
<i>Surrogate: n-Nonane</i>		107 %	50-200	06/17/22	06/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2225047
Chloride	ND	20.0	1	06/15/22	06/17/22	



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/22/2022 3:45:36PM
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#### 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 (2225049-BLK1)**

Prepared: 06/15/22 Analyzed: 06/20/22

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	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			

**LCS (2225049-BS1)**

Prepared: 06/15/22 Analyzed: 06/20/22

Benzene	2.42	0.0250	2.50		96.7	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.5	70-130			
Toluene	2.38	0.0250	2.50		95.4	70-130			
o-Xylene	2.47	0.0250	2.50		98.7	70-130			
p,m-Xylene	4.86	0.0500	5.00		97.2	70-130			
Total Xylenes	7.33	0.0250	7.50		97.7	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

**LCS Dup (2225049-BSD1)**

Prepared: 06/15/22 Analyzed: 06/20/22

Benzene	2.40	0.0250	2.50		95.8	70-130	0.852	23	
Ethylbenzene	2.41	0.0250	2.50		96.3	70-130	0.249	27	
Toluene	2.37	0.0250	2.50		94.7	70-130	0.737	24	
o-Xylene	2.48	0.0250	2.50		99.2	70-130	0.485	27	
p,m-Xylene	4.85	0.0500	5.00		97.0	70-130	0.124	27	
Total Xylenes	7.33	0.0250	7.50		97.8	70-130	0.0819	27	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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#### 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 (2225049-BLK1)**

Prepared: 06/15/22 Analyzed: 06/20/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			

**LCS (2225049-BS2)**

Prepared: 06/15/22 Analyzed: 06/19/22

Gasoline Range Organics (C6-C10)	39.5	20.0	50.0		79.0	70-130			
Surrogate: Bromofluorobenzene	0.405		0.500		81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.384		0.500		76.8	70-130			

**LCS Dup (2225049-BSD2)**

Prepared: 06/15/22 Analyzed: 06/19/22

Gasoline Range Organics (C6-C10)	37.7	20.0	50.0		75.4	70-130	4.71	20	
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.569		0.500		114	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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#### 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 (2225085-BLK1)**

Prepared: 06/17/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

**LCS (2225085-BS1)**

Prepared: 06/17/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	490	25.0	500		98.0	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

**Matrix Spike (2225085-MS1)**

Source: E206085-04

Prepared: 06/17/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	520	25.0	500	ND	104	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

**Matrix Spike Dup (2225085-MSD1)**

Source: E206085-04

Prepared: 06/17/22 Analyzed: 06/20/22

Diesel Range Organics (C10-C28)	543	25.0	500	ND	109	38-132	4.41	20	
Surrogate: n-Nonane	54.9		50.0		110	50-200			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/22/2022 3:45:36PM
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#### 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 (2225047-BLK1)**

Prepared: 06/15/22 Analyzed: 06/17/22

Chloride ND 20.0

**LCS (2225047-BS1)**

Prepared: 06/15/22 Analyzed: 06/17/22

Chloride 253 20.0 250 101 90-110

**Matrix Spike (2225047-MS1)**

Source: E206085-01

Prepared: 06/15/22 Analyzed: 06/17/22

Chloride 270 20.0 250 56.2 85.4 80-120

**Matrix Spike Dup (2225047-MSD1)**

Source: E206085-01

Prepared: 06/15/22 Analyzed: 06/17/22

Chloride 269 20.0 250 56.2 85.1 80-120 0.308 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 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/22/22 15:45

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		<b>Bill To</b>		<b>Lab Use Only</b>			<b>TAT</b>			<b>EPA Program</b>			
Project: Red Hills Facility Pad 5 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		E206085	21022-0001					x			
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method									
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
Email: ashley.giovengo@wescominc.com		Report due by:		Remarks									

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
13:25	6/10/22	Soil	1 Jar	CONF44 - 2.5'	1							X		
11:23	6/10/22	Soil	1 Jar	CONF45 - 1'	2							X		
11:27	6/10/22	Soil	1 Jar	CONF46 - 1'	3							X		
12:42	6/10/22	Soil	1 Jar	CONF47 - 1'	4							X		
12:46	6/10/22	Soil	1 Jar	CONF48 - 1'	5							X		
12:51	6/10/22	Soil	1 Jar	CONF49 - 1'	6							X		
14:25	6/10/22	Soil	1 Jar	CONF50 - 1.5'	7							X		
13:31	6/10/22	Soil	1 Jar	CONF51 - 1'	8							X		
13:59	6/10/22	Soil	1 Jar	CONF52Wall - .5'	9							X		
14:04	6/10/22	Soil	1 Jar	CONF53Wall - .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. **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) <i>[Signature]</i>	Date 6-13-22	Time 11:10 AM	Received by: (Signature) <i>[Signature]</i>	Date 6-13-22	Time 11:10 AM	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <i>[Signature]</i>	Date 6-13-22	Time 4:15	Received by: (Signature) <i>[Signature]</i>	Date 6/14/22	Time 13:00	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <i>[Signature]</i>	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

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: 6/15/2022 2:01:36PM

**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: 06/14/22 13:00	Work Order ID: E206085
Phone: (505) 382-1211	Date Logged In: 06/14/22 13:01	Logged In By: Alexa Michaels
Email: ashley.giovengo@wescominc.com	Due Date: 06/20/22 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

Carrier: UPS

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

**Comments/Resolution**

**Sample 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 5 05.07.22 Spill
Work Order:	E206145
Job Number:	21022-0001
Received:	6/20/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/27/22

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: 6/27/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Workorder: E206145  
Date Received: 6/20/2022 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/20/2022 8:15:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 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
CONF54 - 1.5'	5
CONF55 - 1.5'	6
CONF56 - 1.5'	7
CONF57 - 1.5'	8
CONF58 - 2'	9
CONF59 - 1.5'	10
CONF60 - 2'	11
CONF61 - 1.5'	12
CONF62 - 2'	13
CONF63 Wall - .5'	14
CONF64 Wall - .5'	15
QC Summary Data	16
QC - Volatile Organic Compounds by EPA 8260B	16
QC - Nonhalogenated Organics by EPA 8015D - GRO	17
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	18
QC - Anions by EPA 300.0/9056A	19
Definitions and Notes	20
Chain of Custody etc.	21

### Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 06/27/22 15:49
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF54 - 1.5'	E206145-01A	Soil	06/14/22	06/20/22	Glass Jar, 4 oz.
CONF55 - 1.5'	E206145-02A	Soil	06/14/22	06/20/22	Glass Jar, 4 oz.
CONF56 - 1.5'	E206145-03A	Soil	06/14/22	06/20/22	Glass Jar, 4 oz.
CONF57 - 1.5'	E206145-04A	Soil	06/14/22	06/20/22	Glass Jar, 4 oz.
CONF58 - 2'	E206145-05A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
CONF59 - 1.5'	E206145-06A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
CONF60 - 2'	E206145-07A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
CONF61 - 1.5'	E206145-08A	Soil	06/16/22	06/20/22	Glass Jar, 4 oz.
CONF62 - 2'	E206145-09A	Soil	06/17/22	06/20/22	Glass Jar, 4 oz.
CONF63 Wall - .5'	E206145-10A	Soil	06/17/22	06/20/22	Glass Jar, 4 oz.
CONF64 Wall - .5'	E206145-11A	Soil	06/17/22	06/20/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/27/2022 3:49:49PM
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## CONF54 - 1.5'

## E206145-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>	99.7 %	70-130		06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.6 %	70-130		06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>	102 %	70-130		06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>	99.7 %	70-130		06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.6 %	70-130		06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>	102 %	70-130		06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/23/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/23/22	
<i>Surrogate: n-Nonane</i>	119 %	50-200		06/23/22	06/23/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	51.5	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF55 - 1.5'**

**E206145-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.7 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.7 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/23/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/23/22	
<i>Surrogate: n-Nonane</i>		115 %	50-200	06/23/22	06/23/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	281	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF56 - 1.5'**

**E206145-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		98.3 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		98.3 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/23/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/23/22	
<i>Surrogate: n-Nonane</i>		121 %	50-200	06/23/22	06/23/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	26.2	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF57 - 1.5'**

**E206145-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/23/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/23/22	
<i>Surrogate: n-Nonane</i>		134 %	50-200	06/23/22	06/23/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	280	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF58 - 2'**  
**E206145-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		97.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		97.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/24/22	
<i>Surrogate: n-Nonane</i>		154 %	50-200	06/23/22	06/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	ND	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF59 - 1.5'**

**E206145-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/24/22	
<i>Surrogate: n-Nonane</i>		139 %	50-200	06/23/22	06/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	355	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF60 - 2'**  
**E206145-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.0 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.8 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.0 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.8 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/24/22	
<i>Surrogate: n-Nonane</i>		132 %	50-200	06/23/22	06/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	249	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF61 - 1.5'**

**E206145-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/24/22	
<i>Surrogate: n-Nonane</i>		129 %	50-200	06/23/22	06/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	48.3	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF62 - 2'**  
**E206145-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.1 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %	70-130	06/21/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.1 %	70-130	06/21/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	06/21/22	06/23/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/24/22	
<i>Surrogate: n-Nonane</i>		128 %	50-200	06/23/22	06/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	467	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF63 Wall - .5'**

**E206145-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/24/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/24/22	
Toluene	ND	0.0250	1	06/21/22	06/24/22	
o-Xylene	ND	0.0250	1	06/21/22	06/24/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/24/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/24/22	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	06/21/22	06/24/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	06/21/22	06/24/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/21/22	06/24/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/24/22	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	06/21/22	06/24/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	06/21/22	06/24/22	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	06/21/22	06/24/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/24/22	
<i>Surrogate: n-Nonane</i>		82.5 %	50-200	06/23/22	06/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	ND	20.0	1	06/21/22	06/25/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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**CONF64 Wall - .5'**

**E206145-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Benzene	ND	0.0250	1	06/21/22	06/24/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/24/22	
Toluene	ND	0.0250	1	06/21/22	06/24/22	
o-Xylene	ND	0.0250	1	06/21/22	06/24/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/24/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/24/22	
<i>Surrogate: Bromofluorobenzene</i>		97.0 %	70-130	06/21/22	06/24/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	06/21/22	06/24/22	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	06/21/22	06/24/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/24/22	
<i>Surrogate: Bromofluorobenzene</i>		97.0 %	70-130	06/21/22	06/24/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	06/21/22	06/24/22	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	06/21/22	06/24/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/24/22	
<i>Surrogate: n-Nonane</i>		179 %	50-200	06/23/22	06/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2226032
Chloride	120	20.0	1	06/21/22	06/25/22	



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/27/2022 3:49:49PM
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#### 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 (2226049-BLK1)**

Prepared: 06/21/22 Analyzed: 06/23/22

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: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

**LCS (2226049-BS1)**

Prepared: 06/21/22 Analyzed: 06/23/22

Benzene	2.23	0.0250	2.50		89.3	70-130			
Ethylbenzene	2.19	0.0250	2.50		87.4	70-130			
Toluene	2.10	0.0250	2.50		83.9	70-130			
o-Xylene	2.08	0.0250	2.50		83.3	70-130			
p,m-Xylene	4.15	0.0500	5.00		83.0	70-130			
Total Xylenes	6.23	0.0250	7.50		83.1	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			

**LCS Dup (2226049-BSD1)**

Prepared: 06/21/22 Analyzed: 06/23/22

Benzene	2.22	0.0250	2.50		89.0	70-130	0.404	23	
Ethylbenzene	2.24	0.0250	2.50		89.5	70-130	2.31	27	
Toluene	2.17	0.0250	2.50		86.6	70-130	3.17	24	
o-Xylene	2.11	0.0250	2.50		84.4	70-130	1.38	27	
p,m-Xylene	4.23	0.0500	5.00		84.6	70-130	1.91	27	
Total Xylenes	6.34	0.0250	7.50		84.5	70-130	1.73	27	
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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#### 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 (2226049-BLK1)**

Prepared: 06/21/22 Analyzed: 06/23/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

**LCS (2226049-BS2)**

Prepared: 06/21/22 Analyzed: 06/23/22

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

**LCS Dup (2226049-BSD2)**

Prepared: 06/21/22 Analyzed: 06/23/22

Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130	2.24	20	
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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#### 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 (2226074-BLK1)**

Prepared: 06/23/22 Analyzed: 06/23/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.4		50.0		127	50-200			

**LCS (2226074-BS1)**

Prepared: 06/23/22 Analyzed: 06/27/22

Diesel Range Organics (C10-C28)	543	25.0	500		109	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

**Matrix Spike (2226074-MS1)**

Source: E206145-03

Prepared: 06/23/22 Analyzed: 06/23/22

Diesel Range Organics (C10-C28)	608	25.0	500	ND	122	38-132			
Surrogate: n-Nonane	68.2		50.0		136	50-200			

**Matrix Spike Dup (2226074-MSD1)**

Source: E206145-03

Prepared: 06/23/22 Analyzed: 06/23/22

Diesel Range Organics (C10-C28)	504	25.0	500	ND	101	38-132	18.7	20	
Surrogate: n-Nonane	55.4		50.0		111	50-200			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/27/2022 3:49:49PM
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#### 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 (2226032-BLK1)**

Prepared: 06/21/22 Analyzed: 06/27/22

Chloride	ND	20.0							
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**LCS (2226032-BS1)**

Prepared: 06/21/22 Analyzed: 06/27/22

Chloride	260	20.0	250		104	90-110			
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**Matrix Spike (2226032-MS1)**

Source: E206145-01

Prepared: 06/21/22 Analyzed: 06/25/22

Chloride	326	20.0	250	51.5	110	80-120			
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**Matrix Spike Dup (2226032-MSD1)**

Source: E206145-01

Prepared: 06/21/22 Analyzed: 06/25/22

Chloride	311	20.0	250	51.5	104	80-120	4.73	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 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/27/22 15:49

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: 06/17/2022 4:10:48 PM

Received by OCD: 7/22/2022 10:01:38 AM

Client: Kaiser Francis Oil Co		<b>Bill To</b>		Lab Use Only				TAT				EPA Program				
Project: Red Hills Facility Pad 5 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		E206145		21022-0001					x			
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					
Phone: 505-382-1211				Email: ashley.giovengo@wescominc.com								BGDOC NM	BGDOC TX	State		
Email: ashley.giovengo@wescominc.com												NM	CO	UT	AZ	TX
Report due by:												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
11:11	6/14/22	Soil	1 Jar	CONF54 - 1.5'	1							X		
11:15	6/14/22	Soil	1 Jar	CONF55 - 1.5'	2							X		
12:04	6/14/22	Soil	1 Jar	CONF56 - 1.5'	3							X		
12:10	6/14/22	Soil	1 Jar	CONF57 - 1.5'	4							X		
11:18	6/16/22	Soil	1 Jar	CONF58 - 2'	5							X		
10:11	6/16/22	Soil	1 Jar	CONF59 - 1.5'	6							X		
10:18	6/16/22	Soil	1 Jar	CONF60 - 2'	7							X		
11:40	6/16/22	Soil	1 Jar	CONF61 - 1.5'	8							X		
11:17	6/17/22	Soil	1 Jar	CONF62 - 2'	9							X		
10:40	6/17/22	Soil	1 Jar	CONF63 wall - .5'	109							X		
10:18	6/17/22	Soil	1 Jar	CONF64 wall - .5'	110							X		

**Additional Instructions:** Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com  
6/20/22 CC

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 Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
		6/17/22	13:27			6-17-22	2:00	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	
		6-17-22	4:15			6/20/22	8:15	
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.



Page 197 of 242

**Envirotech Analytical Laboratory**

Printed: 6/20/2022 12:13:27PM

**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: 06/20/22 08:15	Work Order ID: E206145
Phone: (505) 382-1211	Date Logged In: 06/20/22 09:20	Logged In By: Caitlin Christian
Email: ashley.giovengo@wescominc.com	Due Date: 06/24/22 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

Carrier: UPS

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

**Comments/Resolution**

**Sample 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 5 05.07.22  
Spill

Work Order: E206178

Job Number: 21022-0001

Received: 6/24/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/30/22

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: 6/30/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Workorder: E206178  
Date Received: 6/24/2022 8:38:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/24/2022 8:38:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 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	5
Sample Data	6
CONF65-1.5'	6
CONF66-1'	7
CONF67-2'	8
CONF68-1.5'	9
CONF69-1.5'	10
CONF70-1.5'	11
CONF71-1.5'	12
CONF72-2'	13
CONF73-2'	14
CONF74-2'	15
CONF75-2'	16
CONF76-1.5'	17
CONF77Wall-.5'	18
CONF78Wall-.5'	19
CONF79Wall-.5'	20
QC Summary Data	21
QC - Volatile Organics by EPA 8021B	21
QC - Nonhalogenated Organics by EPA 8015D - GRO	22
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	23
QC - Anions by EPA 300.0/9056A	24

## Table of Contents (continued)

Definitions and Notes	25
Chain of Custody etc.	26

**Sample Summary**

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
06/30/22 16:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF65-1.5'	E206178-01A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF66-1'	E206178-02A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF67-2'	E206178-03A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF68-1.5'	E206178-04A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF69-1.5'	E206178-05A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF70-1.5'	E206178-06A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF71-1.5'	E206178-07A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF72-2'	E206178-08A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF73-2'	E206178-09A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF74-2'	E206178-10A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF75-2'	E206178-11A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF76-1.5'	E206178-12A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF77Wall-.5'	E206178-13A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF78Wall-.5'	E206178-14A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF79Wall-.5'	E206178-15A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
---	---	---

**CONF65-1.5'**  
**E206178-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.6 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
<i>Surrogate: n-Nonane</i>		129 %	50-200	06/27/22	06/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	130	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF66-1'**

**E206178-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.1 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.2 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
<i>Surrogate: n-Nonane</i>		101 %	50-200	06/27/22	06/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	166	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF67-2'**

**E206178-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.6 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.7 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
<i>Surrogate: n-Nonane</i>		110 %	50-200	06/27/22	06/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	33.3	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF68-1.5'**

**E206178-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.3 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
<i>Surrogate: n-Nonane</i>		110 %	50-200	06/27/22	06/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	251	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF69-1.5'**

**E206178-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.6 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
<i>Surrogate: n-Nonane</i>		101 %	50-200	06/27/22	06/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	114	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF70-1.5'**

**E206178-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.6 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.6 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	06/27/22	06/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	160	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF71-1.5'**

**E206178-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.5 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
<i>Surrogate: n-Nonane</i>		115 %	50-200	06/27/22	06/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	112	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF72-2'**

**E206178-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.7 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.7 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	06/27/22	06/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	112	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF73-2'**

**E206178-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.3 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	06/27/22	06/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	247	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF74-2'**

**E206178-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.2 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.2 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
<i>Surrogate: n-Nonane</i>		132 %	50-200	06/27/22	06/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	80.8	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF75-2'**

**E206178-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.5 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
<i>Surrogate: n-Nonane</i>		111 %	50-200	06/27/22	06/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	76.5	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF76-1.5'**

**E206178-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.0 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	06/27/22	06/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	90.4	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF77Wall-.5'**

**E206178-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.7 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
<i>Surrogate: n-Nonane</i>		117 %	50-200	06/27/22	06/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	227	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF78Wall-.5'**

**E206178-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.9 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
<i>Surrogate: n-Nonane</i>		120 %	50-200	06/27/22	06/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	117	20.0	1	06/24/22	06/28/22	



### Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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**CONF79Wall-.5'**

**E206178-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.9 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.2 %	70-130	06/27/22	06/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	06/27/22	06/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2226107
Chloride	293	20.0	1	06/24/22	06/28/22	



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
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#### 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 (2227005-BLK1)**

Prepared: 06/27/22 Analyzed: 06/27/22

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	7.43		8.00		92.9	70-130			

**LCS (2227005-BS1)**

Prepared: 06/27/22 Analyzed: 06/27/22

Benzene	4.47	0.0250	5.00		89.3	70-130			
Ethylbenzene	4.10	0.0250	5.00		82.1	70-130			
Toluene	4.34	0.0250	5.00		86.8	70-130			
o-Xylene	4.31	0.0250	5.00		86.1	70-130			
p,m-Xylene	8.48	0.0500	10.0		84.8	70-130			
Total Xylenes	12.8	0.0250	15.0		85.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

**Matrix Spike (2227005-MS1)**

Source: E206178-01

Prepared: 06/27/22 Analyzed: 06/28/22

Benzene	4.82	0.0250	5.00	ND	96.3	54-133			
Ethylbenzene	4.42	0.0250	5.00	ND	88.4	61-133			
Toluene	4.68	0.0250	5.00	ND	93.5	61-130			
o-Xylene	4.60	0.0250	5.00	ND	92.1	63-131			
p,m-Xylene	9.12	0.0500	10.0	ND	91.2	63-131			
Total Xylenes	13.7	0.0250	15.0	ND	91.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.3	70-130			

**Matrix Spike Dup (2227005-MSD1)**

Source: E206178-01

Prepared: 06/27/22 Analyzed: 06/28/22

Benzene	5.01	0.0250	5.00	ND	100	54-133	3.95	20	
Ethylbenzene	4.62	0.0250	5.00	ND	92.4	61-133	4.41	20	
Toluene	4.88	0.0250	5.00	ND	97.5	61-130	4.19	20	
o-Xylene	4.81	0.0250	5.00	ND	96.2	63-131	4.40	20	
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131	4.37	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	63-131	4.38	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
---	---	---

#### Nonhalogenated Organics by EPA 8015D - GRO

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 (2227005-BLK1)**

Prepared: 06/27/22 Analyzed: 06/27/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			

**LCS (2227005-BS2)**

Prepared: 06/27/22 Analyzed: 06/27/22

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

**Matrix Spike (2227005-MS2)**

Source: E206178-01

Prepared: 06/27/22 Analyzed: 06/28/22

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			

**Matrix Spike Dup (2227005-MSD2)**

Source: E206178-01

Prepared: 06/27/22 Analyzed: 06/28/22

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.3	70-130	6.76	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
---	---	---

#### 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 (2227009-BLK1)**

Prepared: 06/27/22 Analyzed: 06/28/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	53.1		50.0		106	50-200			

**LCS (2227009-BS1)**

Prepared: 06/27/22 Analyzed: 06/28/22

Diesel Range Organics (C10-C28)	557	25.0	500		111	38-132			
Surrogate: <i>n</i> -Nonane	52.0		50.0		104	50-200			

**Matrix Spike (2227009-MS1)**

Source: E206178-09

Prepared: 06/27/22 Analyzed: 06/28/22

Diesel Range Organics (C10-C28)	507	25.0	500	ND	101	38-132			
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	50-200			

**Matrix Spike Dup (2227009-MSD1)**

Source: E206178-09

Prepared: 06/27/22 Analyzed: 06/28/22

Diesel Range Organics (C10-C28)	497	25.0	500	ND	99.4	38-132	2.03	20	
Surrogate: <i>n</i> -Nonane	41.4		50.0		82.8	50-200			



### QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/30/2022 4:20:19PM
---	---	---

#### 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 (2226107-BLK1)**

Prepared: 06/24/22 Analyzed: 06/28/22

Chloride ND 20.0

**LCS (2226107-BS1)**

Prepared: 06/24/22 Analyzed: 06/28/22

Chloride 245 20.0 250 97.9 90-110

**Matrix Spike (2226107-MS1)**

Source: E206178-01

Prepared: 06/24/22 Analyzed: 06/28/22

Chloride 355 20.0 250 130 90.1 80-120

**Matrix Spike Dup (2226107-MSD1)**

Source: E206178-01

Prepared: 06/24/22 Analyzed: 06/28/22

Chloride 362 20.0 250 130 92.8 80-120 1.89 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 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/30/22 16:20

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.



PO: 35993

Released to Imaging: 10/17/2022 4:10:48 PM

Received by OCD: 7/22/2022 10:01:38 AM

Project Information

Chain of Custody

Client: Kaiser Francis Oil Co		<b>Bill To</b>		Lab Use Only				TAT				EPA Program	
Project: Red Hills Facility Pad 5 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		E206178		21022-0001					x		
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method									
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/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
11:06	6/21/22	Soil	1 Jar	CONF65 - 1.5'	1							X		
11:10	6/21/22	Soil	1 Jar	CONF66 - 1'	2							X		
14:07	6/21/22	Soil	1 Jar	CONF67 - 2'	3							X		
11:22	6/21/22	Soil	1 Jar	CONF68 - 1.5'	4							X		
11:25	6/21/22	Soil	1 Jar	CONF69 - 1.5'	5							X		
9:57	6/22/22	Soil	1 Jar	CONF70 - 1.5'	6							X		
10:00	6/22/22	Soil	1 Jar	CONF71 - 1.5'	7							X		
11:44	6/22/22	Soil	1 Jar	CONF72 - 2'	8							X		
12:06	6/22/22	Soil	1 Jar	CONF73 - 2'	9							X		
12:16	6/22/22	Soil	1 Jar	CONF74 - 2'	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)	Date	Time	Lab Use Only
<i>[Signature]</i>	6/23/22	11:57	<i>[Signature]</i>	6/23/22	12:00	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<i>[Signature]</i>	6/23/22	4:15P	<i>[Signature]</i>	6/23/22	16:19	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
<i>[Signature]</i>	6/24/2022	8:28	<i>[Signature]</i>	6/24/22	8:38	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 224 of 242

Released to Imaging: 10/11/2022 4:10:48 PM

Received by OCD: 7/22/2022 10:01:38 AM

Client: Kaiser Francis Oil Co		<b>Bill To</b>		Lab Use Only				TAT				EPA Program		
Project: Red Hills Facility Pad 5 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		E 200178		21022-0001					x			
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method										
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	RCRA
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com		State										
Email: ashley.giovengo@wescominc.com		Report due by:		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
12:26	6/21/22	Soil	1 Jar	CONF75 - 2'	11							X		
10:16	6/21/22	Soil	1 Jar	CONF76 - 1.5'	12							X		
7:50	6/21/22	Soil	1 Jar	CONF77Wall - .5'	13							X		
9:10	6/21/22	Soil	1 Jar	CONF78Wall - .5'	14							X		
10:26	6/21/22	Soil	1 Jar	CONF79Wall - .5'	15							X		
												X		
												X		
												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.

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>	6/23/22	11:57	<i>[Signature]</i>	6/23/22	12:00	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<i>[Signature]</i>	6/23/22	4:15	<i>[Signature]</i>	6/23/2022	16:19	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
<i>[Signature]</i>	6/24/2022	8:38	<i>[Signature]</i>	6/24/22	8:38	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 225 of 242

Envirotech Analytical Laboratory

Printed: 6/28/2022 8:51:31AM

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: 06/24/22 08:38 Work Order ID: E206178
Phone: (505) 382-1211 Date Logged In: 06/24/22 11:04 Logged In By: Alexa Michaels
Email: ashley.giovengo@wescominc.com Due Date: 06/30/22 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

Carrier: Isaac Garcia

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

Comments/Resolution

Sample 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

Empty box for Client Instruction

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

Date



envirotech Inc.

# ATTACHMENT F

## Confirmation Sampling Variance Request



**Ashley Giovengo**

---

**From:** Aaron Daniels <aarond@kfoc.net>  
**Sent:** Friday, May 20, 2022 9:53 AM  
**To:** Hutton Andrew; Ashley Giovengo  
**Subject:** FW: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

FYI

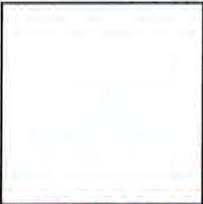
**From:** Morgan, Crisha A <camorgan@blm.gov>  
**Sent:** Friday, May 20, 2022 10:52 AM  
**To:** Aaron Daniels <aarond@kfoc.net>  
**Subject:** Re: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

All,

Please consider this BLM's approval for 400ft sampling. Please keep the BLM updated if anything slows down the work for delineation or remediation.

Thank you,

**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](tel:575-200-8648) | Office [575-234-5987](tel:575-234-5987) | [camorgan@blm.gov](mailto:camorgan@blm.gov)



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**From:** Aaron Daniels <aarond@kfoc.net>  
**Sent:** Friday, May 20, 2022 9:48:34 AM  
**To:** Morgan, Crisha A <camorgan@blm.gov>  
**Subject:** FW: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

Following up on Red Hills Pad 5 as well.

Wanted to provide you with the information below from NMOCD.

Hope you are doing well.

Aaron

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Thursday, May 19, 2022 2:45 PM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Aaron Daniels <aarond@kfoc.net>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>  
**Cc:** Hutton Andrew <Huttona@kfoc.net>  
**Subject:** RE: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

Aaron & Andrew,

Sorry for the mix-up. Your request for the sampling variance is approved for 400 ft<sup>2</sup>.

Thank you,

**Mike Bratcher** • Incident Supervisor  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811S. First St. | Artesia, NM 88210  
(575) 626-0857 | [mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Sent:** Thursday, May 19, 2022 1:36 PM  
**To:** Aaron Daniels <[aarond@kfoc.net](mailto:aarond@kfoc.net)>; Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@state.nm.us](mailto:Jocelyn.Harimon@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@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)>  
**Subject:** RE: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

Aaron,

The variance request for closure samples not to exceed 500 ft<sup>2</sup> is approved. The variance request will be placed in the incident file for future reference. Also, please make sure to include in closure report.

Regards,

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Aaron Daniels <[aarond@kfoc.net](mailto:aarond@kfoc.net)>  
**Sent:** Wednesday, May 18, 2022 3:46 PM  
**To:** Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; 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)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Billings, Bradford, EMNRD <[Bradford.Billings@state.nm.us](mailto:Bradford.Billings@state.nm.us)>  
**Cc:** Hutton Andrew <[Huttona@kfoc.net](mailto:Huttona@kfoc.net)>  
**Subject:** [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

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

Good Afternoon,

I wanted to reach out to request a variance associated with the 200 sq. ft. requirement for sampling. We would like to perform sampling at every 500 sq. ft. based on the following information:

- The size of the release footprint (~25,254.18 sq. ft)
- The homogeneity of the soil throughout the spill area – 99.8% Pyote and Maljamar fine sands (See soil report attached)
- We will collect samples from the floor and side walls of the excavation to ensure impacted material is removed
- KFOC believes that sampling every 500 sq. ft will provide sufficient data confirming soil impacts have been adequately excavated

Thanks,

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

# ATTACHMENT G

## 48-Hour Confirmation Sample Notification Email



**Energizing America**

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

**Red Hills Facility Pad 5** | Incident ID: nAPP2212769524

**Ashley Gioveno**

---

**From:** Ashley Gioveno  
**Sent:** Monday, May 23, 2022 7:49 AM  
**To:** Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Billings, Bradford, EMNRD; Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD  
**Cc:** Aaron Daniels; Hutton Andrew; Cole Burton; Shar Harvester  
**Subject:** Re: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 5 – nAPP221276897

Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 05/27/2022.

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

Thanks,

**Ashley Gioveno**, Environmental Manager - Permian  
O (218) 724-1322 | C (505) 382-1211  
[WescomInc.com](http://WescomInc.com) | [ashley.gioveno@WescomInc.com](mailto:ashley.gioveno@WescomInc.com)  
*"I am in charge of my own safety."*



Minnesota | North Dakota | New Mexico | Wisconsin

On Wed, May 11, 2022 at 3:25 PM Ashley Gioveno <[ashley.gioveno@wescominc.com](mailto:ashley.gioveno@wescominc.com)> wrote:

Hello All,

We intend to take confirmation samples at the Red Hills Facility Pad 5 – nAPP221276897 starting on (5/13/22 thru 05/20/22).

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

Thanks,

**Ashley Giovengo**, Environmental Manager - Permian  
O (218) 724-1322 | C (505) 382-1211  
[WescomInc.com](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

## Ashley Gioengo

---

**From:** Ashley Gioengo  
**Sent:** Tuesday, May 31, 2022 10:33 AM  
**To:** Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Billings, Bradford, EMNRD; Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD  
**Cc:** Aaron Daniels; Hutton Andrew; Cole Burton; Shar Harvester  
**Subject:** Re: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 5 – nAPP221276897

Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/03/2022.

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

Thanks,

**Ashley Gioengo**, Environmental Manager - Permian  
 O (218) 724-1322 | C (505) 382-1211  
[WescomInc.com](http://WescomInc.com) | [ashley.gioengo@WescomInc.com](mailto:ashley.gioengo@WescomInc.com)  
*"I am in charge of my own safety."*



Minnesota | North Dakota | New Mexico | Wisconsin

On Mon, May 23, 2022 at 7:48 AM Ashley Gioengo <[ashley.gioengo@wescominc.com](mailto:ashley.gioengo@wescominc.com)> wrote:  
 Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 05/27/2022.

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."*



Minnesota | North Dakota | New Mexico | Wisconsin

On Wed, May 11, 2022 at 3:25 PM Ashley Giovengo <[ashley.giovengo@wescominc.com](mailto:ashley.giovengo@wescominc.com)> wrote:

Hello All,

We intend to take confirmation samples at the Red Hills Facility Pad 5 – nAPP221276897 starting on (5/13/22 thru 05/20/22).

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

Thanks,

**Ashley Giovengo**, Environmental Manager - Permian  
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## Ashley Gioveno

---

**From:** Ashley Gioveno  
**Sent:** Monday, June 6, 2022 8:34 PM  
**To:** Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Billings, Bradford, EMNRD; Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD  
**Cc:** Aaron Daniels; Hutton Andrew; Cole Burton; Shar Harvester  
**Subject:** Re: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 5 – nAPP221276897

Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/17/2022.

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

Thanks,

**Ashley Gioveno**, Environmental Manager - Permian  
 ☎ (218) 724-1322 | 📠 (505) 382-1211  
[WescomInc.com](http://WescomInc.com) | [ashley.gioveno@WescomInc.com](mailto:ashley.gioveno@WescomInc.com)  
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On Tue, May 31, 2022 at 10:32 AM Ashley Gioveno <[ashley.gioveno@wescominc.com](mailto:ashley.gioveno@wescominc.com)> wrote:  
Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/03/2022.

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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On Mon, May 23, 2022 at 7:48 AM Ashley Giovengo <[ashley.giovengo@wescominc.com](mailto:ashley.giovengo@wescominc.com)> wrote:  
Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 05/27/2022.

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

Thanks,

**Ashley Giovengo**, Environmental Manager - Permian  
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## Ashley Gioveno

---

**From:** Ashley Gioveno  
**Sent:** Monday, June 20, 2022 8:09 AM  
**To:** Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Billings, Bradford, EMNRD; Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD  
**Cc:** Aaron Daniels; Hutton Andrew; Cole Burton; Shar Harvester  
**Subject:** Re: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 5 – nAPP221276897

Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/24/2022.

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On Mon, Jun 6, 2022 at 8:33 PM Ashley Gioveno <[ashley.gioveno@wescominc.com](mailto:ashley.gioveno@wescominc.com)> wrote:

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**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**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 128061

**CONDITIONS**

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 128061
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/11/2022