



CLOSURE REPORT

Created for submission to New Mexico Oil Conservation Division on 08/15/2023

SHARLENE HARVESTER
Senior Environmental Scientist

ENERGIZING AMERICA

August 15, 2023

Environmental Incident Group

State of New Mexico

Energy, Minerals, and Natural Resources

New Mexico Oil Conservation Division

811 South First Street

Artesia, New Mexico 88210

RE: CLOSURE REQUEST

COMPANY	Kaiser Francis Oil Company
LOCATION	North Bell Lake Pad #6
API	30-025-47770
PLSS	Unit E Sec 06 T23S R34E
GPS	32.33512, -103.51409
INCIDENT ID	nAPP2234143414

BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Closure Report on behalf of Kaiser-Francis Oil Company, hereafter referred to as Kaiser-Francis Oil Company, regarding the release at the North Bell Lake Pad #6 (Site) located in Unit E, Section 06 Township 23 South and Range 34 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.33512 and West -103.51409. Surface owner of the Site is Bureau of Land Management (BLM).

On December 07, 2022 a vessel over-pressure during ventless flowback operations resulted in release and flash fire. All producing wells were immediately shut in. The impacted area was secured to protect human health and the environment. Kaiser-Francis Oil Company estimates the amount of fluid released to be approximately 10 bbls of crude oil and 20 bbls of produced water. The spill area is located on the East side of the wellhead as shown in Figure 1.

Wescom personnel arrived onsite on February 03, 2023, to begin horizontal and vertical delineation of the spill area. On July 12, 2023, Wescom personnel returned to the Site to excavate impacted soils and on July 21, 2023, July 27, 2023 and August 7, 2023, to conduct additional excavation and collect confirmation samples.



SURFACE & GROUND WATER

Well log data filled with the New Mexico Office of the State Engineer (OSE) for CP-1935 POD1, verifies DTW exceeds 101 feet below ground surface bgs and is 199 feet 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 low karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
North Bell Lake Pad #6 — 32.33512, -103.51409						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride * numerical limit or background, whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
No water data within 0.5 mile radius		600	100		50	10
less than 50 ft bgs		600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs	> 101 ft bgs	20000	2500	1000	50	10
Surface Water	Yes or No	If yes, then				
< 300 feet from continuously flowing watercourse or other significant watercourse?	No					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplain?	No					

Table: Closure Criteria Statistics

TARGET REMEDIAL LEVELS

Well log files submitted to OSE and USGS indicate that the depth to water (DTW) exceeds 101 feet bgs in the area surrounding the Site which verifies the use of the highest Remediation Action Levels (RRALs). The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted above) including karst guidelines from the Bureau of Land Management. The applicable (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX) and 2500 ppm Total Petroleum Hydrocarbons (TPH) and 1000 ppm combined Gasoline Range Organics (GRO)



and Diesel Range Organics (DRO). A chloride concentration at or below 20000 mg/kg (ppm) in the soil is also required.

SITE ASSESSMENT AND DELINEATION

On February 3, 2023, Kaiser-Francis Oil Company contracted Wescom to complete horizontal and vertical delineation of the spill area. A total of 6 samples were jarred and sent to Envirotech, for laboratory analysis and all samples were below applicable RRALs for the Site. A background sample, BG01, was collected 56 feet to the South of the caliche pad. Delineation sample locations are presented in Figure 1; laboratory analysis results are presented in Table 1 and laboratory analytical reports are included in Attachment E.

REMEDIATION ACTIVITIES

Beginning on July 11, 2023, Wescom personnel arrived onsite to conduct a surface scrape to remove impacted soil at the spill area. A skid-steer was utilized to remove contaminated soil from the area surrounding the wellhead and impacted material was hauled to an approved disposal facility.

Wescom personnel collected 52 composite confirmation samples on July 24, 2023. On July 27, 2023, Wescom personnel returned to conduct additional excavation and collect samples from 18 confirmation areas which exceeded the applicable RRALs. An additional 29 confirmation sample areas were excavated and sampled August 7th, 2023. A backhoe was used to remove approximately 90 yards of contaminated soil from the spill area.

All soil samples were properly packaged, preserved, and transported to Envirotech 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 notification was sent on July 19, 2023, July 25, 2023, and August 1, 2023 to OCD.Enviro@emnrd.nm.gov and are included in Attachment F.

REQUEST FOR CLOSURE

On behalf of Kaiser-Francis Oil Company, Wescom hereby requests approval of the Closure Report for the release associated with incident number nAPP2234143414 based on the logic below.

- The spill area has been horizontally and vertically delineated.
- All confirmation area 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 Ms. Sharlene Harvester at (218) 335-8047.

Sincerely,

Wescom, Inc.

Sharlene Harvester

Senior Environmental Scientist

cc: Hutton Andrew, Kaiser-Francis Oil Company

Aaron Daniels, Kaiser-Francis Oil Company

Environmental Incident Group, NMOCD



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

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REFERENCE MATERIALS

FIGURES

FIGURE 1. Delineation Sampling

FIGURE 2. Confirmation Sampling

TABLES

TABLE 1. Laboratory Analysis Results: Delineation Samples

TABLE 2. Laboratory Analysis Results: Confirmation Samples

ATTACHMENTS

ATTACHMENT A. C-141

ATTACHMENT B. Site Photos

ATTACHMENT C. Closure Criteria Supporting Documents

ATTACHMENT D. Karst Map

ATTACHMENT E. Envirotech Laboratory Analysis Reports

ATTACHMENT F. 48-hour Confirmation Notification Emails

ATTACHMENT G. Extension Request



FIGURES

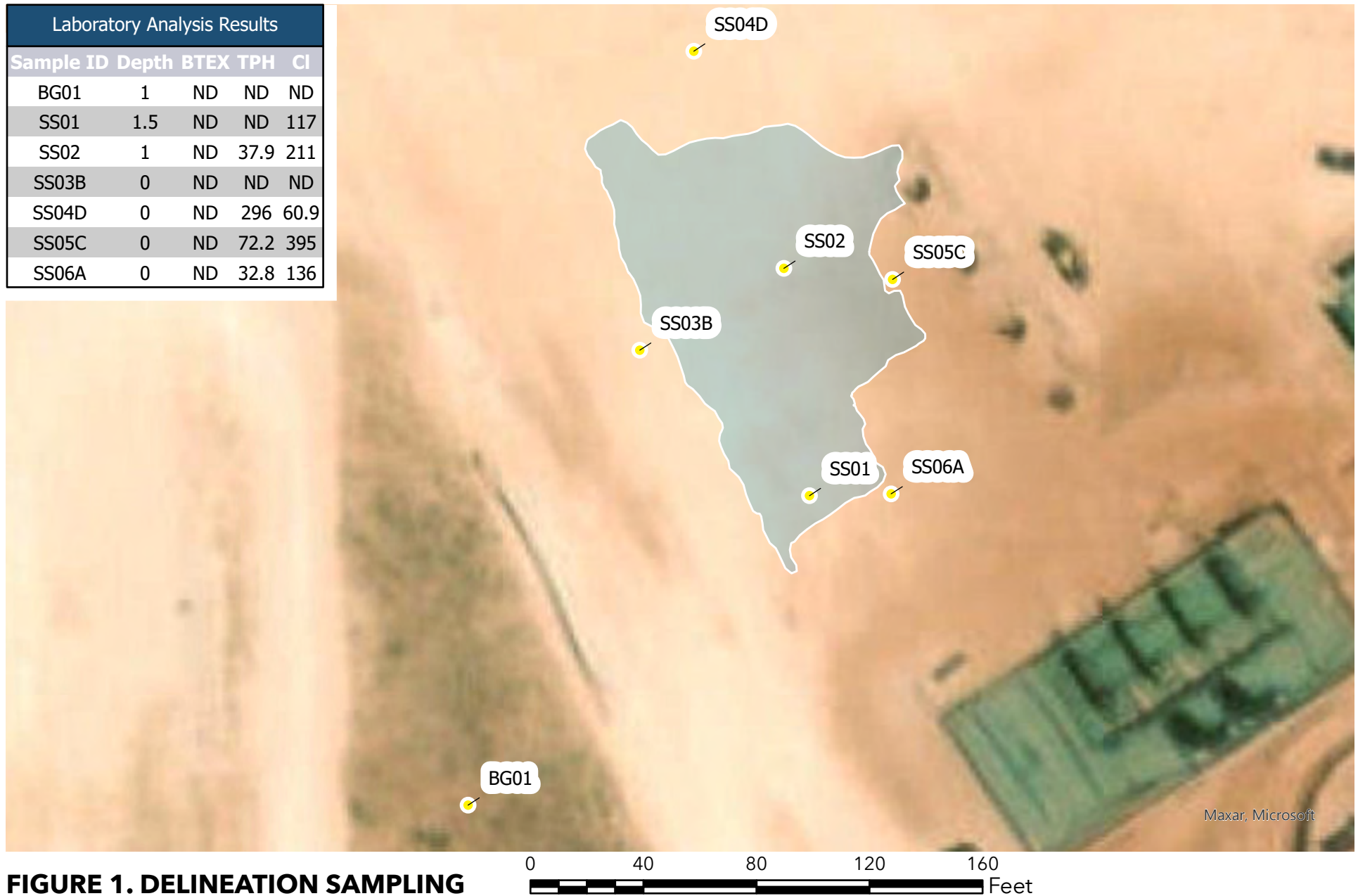


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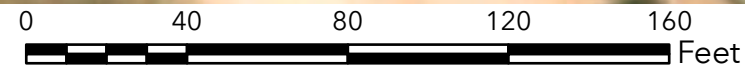
North Bell Lake Pad #6 | Incident ID: nAPP2234143414

Laboratory Analysis Results				
Sample ID	Depth	BTEX	TPH	CI
BG01	1	ND	ND	ND
SS01	1.5	ND	ND	117
SS02	1	ND	37.9	211
SS03B	0	ND	ND	ND
SS04D	0	ND	296	60.9
SS05C	0	ND	72.2	395
SS06A	0	ND	32.8	136

**FIGURE 1. DELINEATION SAMPLING**

North Bell Lake Pad #6
 Incident ID: nAPP2234143414
 API: 30-025-47770
 GPS Coordinates: 32.33512, -103.51409
 Lea County, New Mexico
 Kaiser-Francis Oil Company

Released to Imaging: 11/20/2023 10:11:08 AM

**LEGEND**

- Delineation Sample Locations
- Spill Area



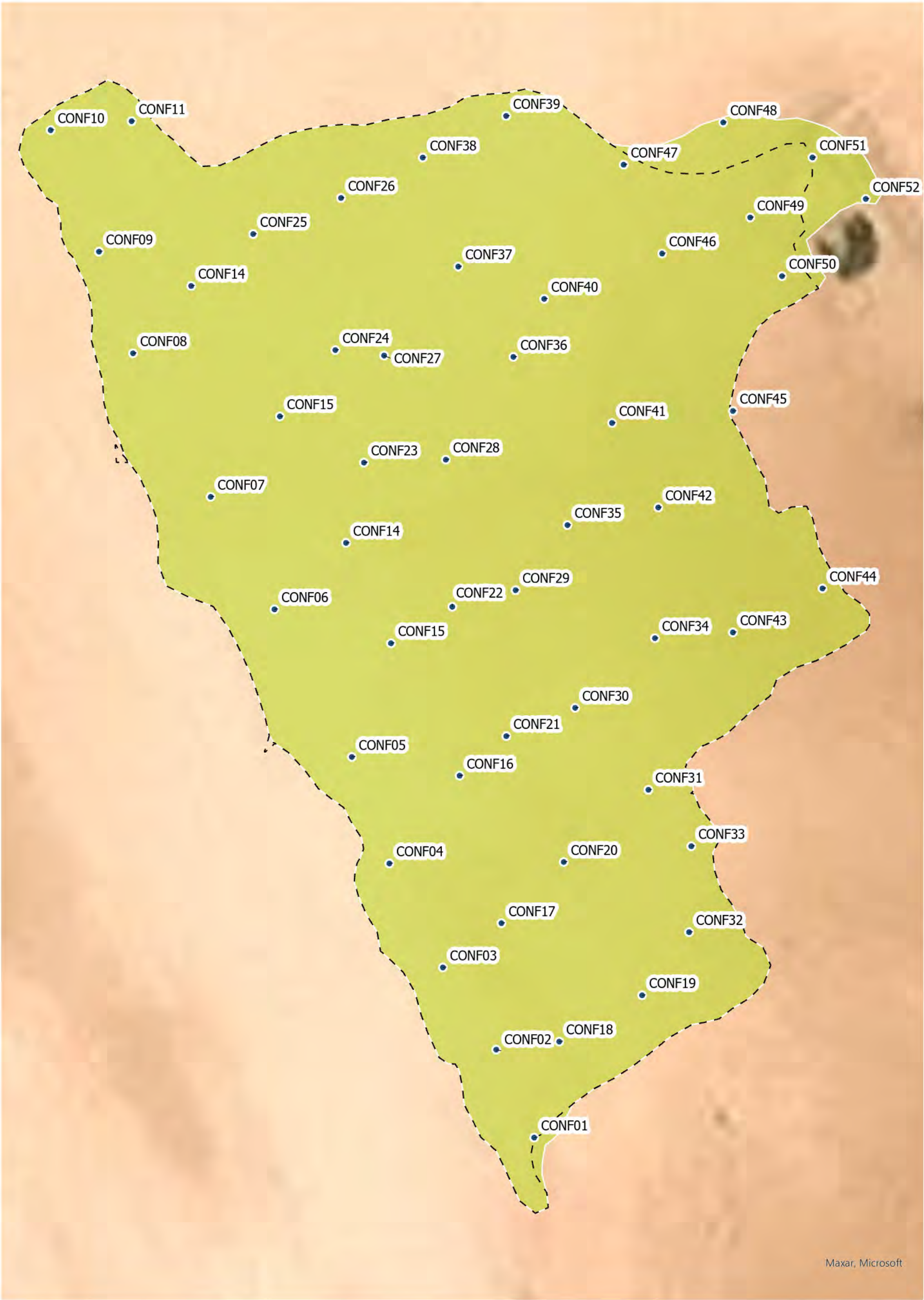
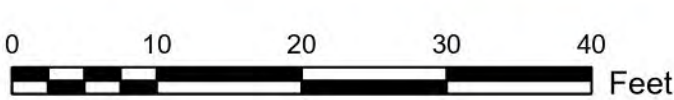


FIGURE 2.
CONFIRMATION SAMPLING

North Bell Lake Pad #6
Incident ID: nAPP2234143414
API: 30-025-47770
GPS Coordinates: 32.33512, -103.51409
Lea County, New Mexico
Kaiser-Francis Oil Company



LEGEND

- Confirmation Samples
- Spill Area
- Scraped Area



TABLES



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

North Bell Lake Pad #6 nAPP2234143414							
Kaiser-Francis Oil Company 07/28/2023							
Table 1. Laboratory Analysis Results: Delineation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	20000
BG01	0	2/3/2023	ND	ND	28.4	28.4	ND
BG01	1	2/3/2023	ND	ND	ND	ND	ND
SS01	1.5	2/3/2023	ND	ND	ND	ND	117
SS02	1	2/3/2023	ND	ND	37.9	37.9	211
SS03B	0	2/3/2023	ND	ND	ND	ND	ND
SS04D	0	2/3/2023	ND	ND	296	165	60.9
SS05C	0	2/3/2023	ND	ND	72.2	72.2	395
SS06A	0	2/3/2023	ND	ND	32.8	32.8	136
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Gray Highlight - Background Samples							



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

North Bell Lake Pad #6 nAPP2234143414							
Kaiser-Francis Oil Company 08/07/2023							
Table 2. Laboratory Analysis Results: Confirmation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF01	0	7/21/2023	ND	ND	2543	1590	2350
CONF1A	0.5	8/7/2023	ND	ND	ND	ND	55
CONF02	0	7/21/2023	ND	ND	2419	1450	2090
CONF2A	0.5	8/7/2023	ND	ND	ND	39.6	197
CONF03	0	7/21/2023	ND	ND	2590	1540	1110
CONF3A	0.5	8/7/2023	ND	ND	ND	ND	99.9
CONF04	0	7/21/2023	ND	ND	1859	1010	3020
CONF4A	0.5	7/27/2023	ND	ND	ND	ND	632
CONF05	0	7/21/2023	ND	ND	1694	1090	2660
CONF5A	0.5	8/7/2023	ND	ND	ND	ND	85.5
CONF06	0	7/21/2023	ND	ND	2860	1660	2050
CONF6A	0.5	7/27/2023	ND	ND	ND	ND	20
CONF07	0	7/21/2023	ND	ND	996	511	1930
CONF7A	0.5	7/27/2023	ND	ND	ND	ND	34.1
CONF08	0	7/21/2023	ND	ND	2042	1130	2750
CONF8A	0.5	7/27/2023	ND	ND	ND	ND	23.9
CONF09	0	7/21/2023	ND	ND	2060	1170	2690
CONF9A	0.5	7/27/2023	ND	ND	ND	ND	46.9
CONF10	0	7/21/2023	ND	ND	1310	1310	2190
CONF10A	0.5	7/27/2023	ND	ND	ND	ND	26.8
CONF11	0	7/21/2023	ND	ND	4890	2980	3680
CONF11A	0.5	7/27/2023	ND	ND	ND	ND	26.2
CONF12	0	7/21/2023	ND	ND	2810	1390	1860
CONF12A	0.5	8/7/2023	ND	ND	ND	ND	105
CONF13	0	7/21/2023	ND	ND	3990	2440	1010
CONF13A	0.5	8/7/2023	ND	ND	ND	ND	33
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Bold Black - Resampled confirmation area results							



North Bell Lake Pad #6 nAPP2234143414							
Kaiser-Francis Oil Company 08/07/2023							
Table 2. Laboratory Analysis Results: Confirmation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF14	0	7/21/2023	ND	ND	2557	1590	1650
CONF14A	0.5	8/7/2023	ND	ND	ND	ND	213
CONF15	0	7/21/2023	ND	ND	3010	1680	2780
CONF15A	0.5	7/27/2023	ND	ND	89	89	1650
CONF16	0	7/21/2023	ND	ND	5060	3310	1170
CONF16A	0.5	7/27/2023	ND	ND	98.1	98.1	1430
CONF17	0	7/21/2023	ND	ND	1250	1250	1250
CONF17A	0.5	8/7/2023	ND	ND	ND	ND	64.1
CONF18	0	7/21/2023	ND	ND	2880	1580	1770
CONF18A	0.5	8/7/2023	ND	ND	ND	ND	279
CONF19	0	7/21/2023	ND	ND	1915	1110	4280
CONF19A	0.5	8/7/2023	ND	ND	ND	ND	165
CONF20	0	7/21/2023	ND	ND	842	516	2070
CONF21	0	7/21/2023	ND	ND	2980	1580	3750
CONF21A	0.5	7/27/2023	ND	ND	ND	ND	795
CONF22	0	7/21/2023	ND	ND	1886	962	3330
CONF23	0	7/21/2023	ND	ND	2000	2000	2420
CONF23A	0.5	8/7/2023	ND	ND	ND	ND	98.2
CONF24	0	7/21/2023	ND	ND	2530	2530	3270
CONF24A	0.5	7/27/2023	ND	ND	92.8	92.8	2370
CONF25	0	7/21/2023	ND	ND	2223	1420	2140
CONF25A	0.5	8/7/2023	ND	ND	ND	ND	50.5
CONF26	0	7/21/2023	ND	ND	2760	1410	7330
CONF26A	0.5	7/27/2023	ND	ND	139.6	66.8	3680
CONF27	0	7/21/2023	ND	ND	2080	1040	2760
CONF27A	0.5	8/7/2023	ND	ND	ND	ND	262
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Bold Black - Resampled confirmation area results							



North Bell Lake Pad #6 nAPP2234143414							
Kaiser-Francis Oil Company 08/07/2023							
Table 2. Laboratory Analysis Results: Confirmation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF28	0	7/21/2023	ND	ND	2910	1370	3140
CONF28A	0.5	8/7/2023	ND	ND	ND	ND	185
CONF29	0	7/21/2023	ND	ND	4710	3000	3600
CONF29A	0.5	8/7/2023	ND	ND	ND	ND	235
CONF30	0	7/21/2023	ND	ND	1000	1000	1720
CONF30A	0.5	8/7/2023	ND	ND	ND	ND	331
CONF31	0	7/21/2023	ND	ND	2079	1420	1540
CONF31A	0.5	8/7/2023	ND	ND	ND	ND	139
CONF32	0	7/21/2023	ND	ND	2850	1770	2210
CONF32A	0.5	8/7/2023	ND	ND	ND	ND	47.2
CONF33	0	7/21/2023	ND	ND	2156	1280	1870
CONF33A	0.5	8/7/2023	ND	ND	ND	ND	86.4
CONF34	0	7/21/2023	ND	ND	5070	3130	4010
CONF34A	0.5	7/27/2023	ND	ND	ND	ND	736
CONF35	0	7/21/2023	ND	ND	5620	3240	4120
CONF35A	0.5	7/27/2023	ND	ND	ND	ND	931
CONF36	0	7/21/2023	ND	ND	1846	935	4970
CONF37	0	7/21/2023	ND	ND	1690	1020	4330
CONF37A	0.5	8/7/2023	ND	ND	ND	ND	133
CONF38	0	7/21/2023	ND	ND	2003	1260	7960
CONF38A	0.5	8/7/2023	ND	ND	ND	ND	180
CONF39	0	7/21/2023	ND	ND	2104	1300	8290
CONF39A	0.5	8/7/2023	ND	ND	ND	ND	90.2
CONF40	0	7/21/2023	ND	ND	3960	2660	1890
CONF40A	0.5	7/27/2023	ND	ND	ND	ND	715
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Bold Black - Resampled confirmation area results							



North Bell Lake Pad #6 nAPP2234143414							
Kaiser-Francis Oil Company 08/07/2023							
Table 2. Laboratory Analysis Results: Confirmation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF41	0	7/21/2023	ND	ND	3240	1840	2460
CONF41A	0.5	7/27/2023	ND	ND	ND	ND	680
CONF42	0	7/21/2023	ND	ND	2370	1210	3280
CONF42A	0.5	8/7/2023	ND	ND	ND	39.4	109
CONF43	0	7/21/2023	ND	ND	1170	1170	3920
CONF43A	0.5	8/7/2023	ND	ND	ND	ND	154
CONF44	0	7/21/2023	ND	ND	2035	1040	3990
CONF44A	0.5	8/7/2023	ND	ND	ND	ND	113
CONF45	0	7/21/2023	ND	ND	944	944	3990
CONF45A	0.5	8/7/2023	ND	ND	ND	ND	115
CONF46	0	7/21/2023	ND	ND	2360	1350	4140
CONF46A	0.5	8/7/2023	ND	ND	ND	ND	170
CONF47	0	7/21/2023	ND	ND	2270	1200	3730
CONF47A	0.5	8/7/2023	ND	ND	ND	ND	188
CONF48	0	7/21/2023	ND	ND	2016	1050	6980
CONF48A	0.5	8/7/2023	ND	ND	ND	ND	272
CONF49	0	7/21/2023	ND	ND	4990	2330	4410
CONF49A	0.5	7/27/2023	ND	ND	ND	ND	44.6
CONF50	0	7/21/2023	ND	ND	3430	2110	4870
CONF50A	0.5	7/27/2023	ND	ND	ND	ND	34.3
CONF51	0	7/21/2023	ND	ND	2397	1610	2770
CONF51A	0.5	8/7/2023	ND	ND	ND	ND	210
CONF52	0	7/21/2023	ND	ND	1715	1130	4690
CONF52A	0.5	8/7/2023	ND	ND	ND	ND	112
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Bold Black - Resampled confirmation area results							



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

ATTACHMENT A

Signed C-141



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

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	
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) nAPP2234143414
Contact mailing address: 6733 S. Yale, Tulsa, OK 74136	

Location of Release Source

Latitude 32.33512

Longitude -103.51409

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Bell Lake Pad #6	Site Type: Well Pad
Date Release Discovered: 12/07/2022	API# (if applicable) 30-025-47770

Unit Letter	Section	Township	Range	County
E	06	23S	34E	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input 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

Vessel over-pressure during ventless flowback operations resulted in release and flash fire.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
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? A flash fire resulted from the tank over-pressure.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes. Aaron Daniels. NMOCD Portal via NOR on 12/07/22.	

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Hutton Andrew Title: EHS Lead

Signature: 

Date: 12-20-22

email: huttona@kfoc.net

Telephone: 918-491-4615

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>280</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Form C-141

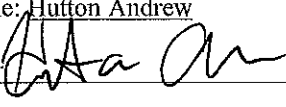
State of New Mexico

Page 4

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Hutton AndrewTitle: EHS LeadSignature: Date: 08/17/2023huttona@kfoc.netTelephone: 918-491-4615**OCD Only**

Received by: _____

Date: _____

Form C-141

State of New Mexico

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

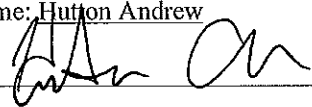
Closure

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

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 AndrewTitle: EHS LeadSignature: Date: 08/17/2023huttona@kfoc.netTelephone: 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: Nelson VelezDate: 11/20/2023Printed Name: Nelson VelezTitle: Environmental Specialist – Adv

Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.

ATTACHMENT B

Site Photos



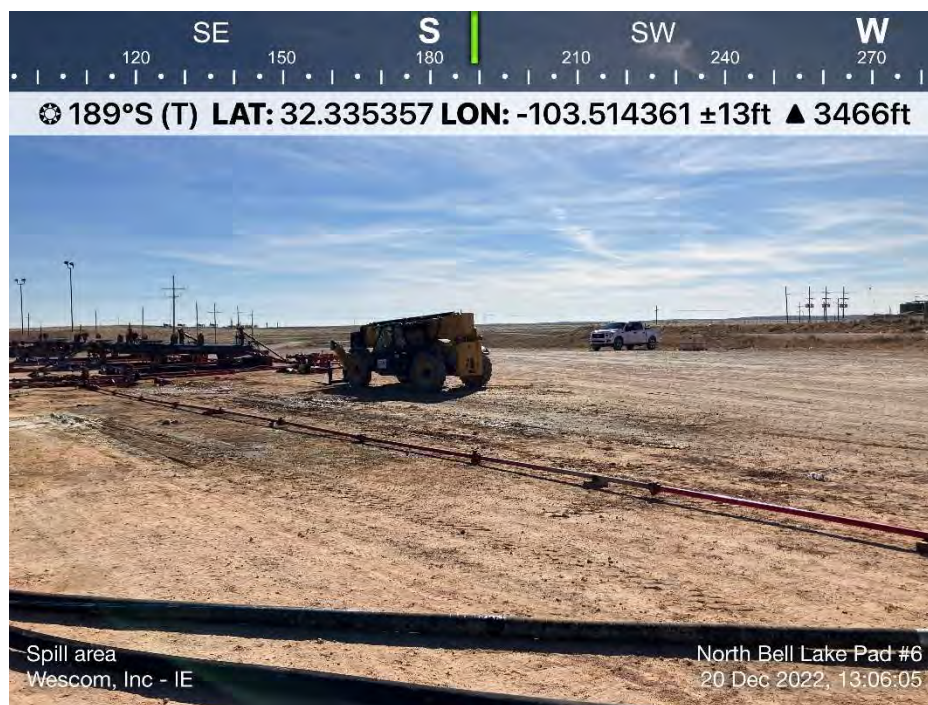
Energizing America

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

North Bell Lake Pad #6 | Incident ID: nAPP2234143414



Original Spill Area



Original Spill Area

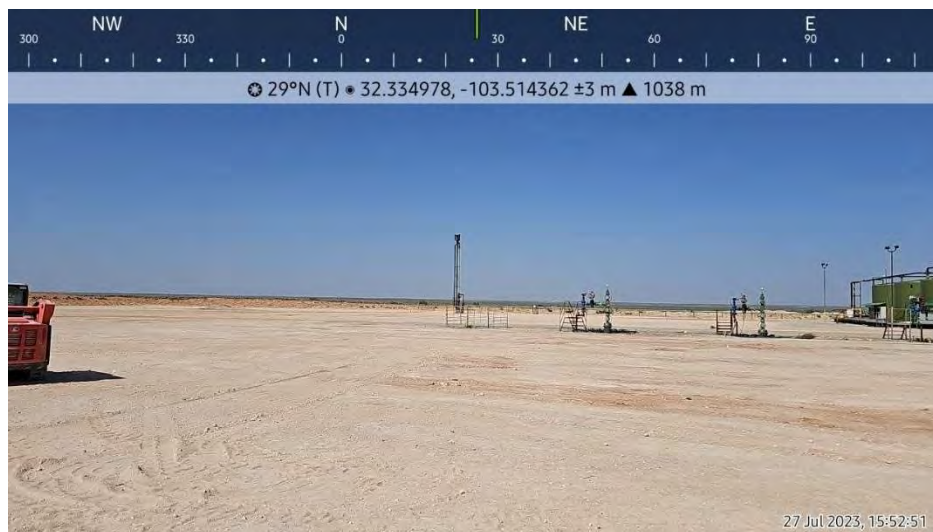


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Page 2 of 5



Scraped Spill Area



Scraped Spill Area

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*Scraped Spill Area**Scraped Spill Area***Energizing America**

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North Bell Lake Pad #6 | Incident: nAPP2234143414

Page 4 of 5

*Scraped Spill Area**Scraped Spill Area***Energizing America****wescominc.com** | info@wescominc.com | 218-724-1322**North Bell Lake Pad #6** | Incident: nAPP2234143414

Page 5 of 5

ATTACHMENT C

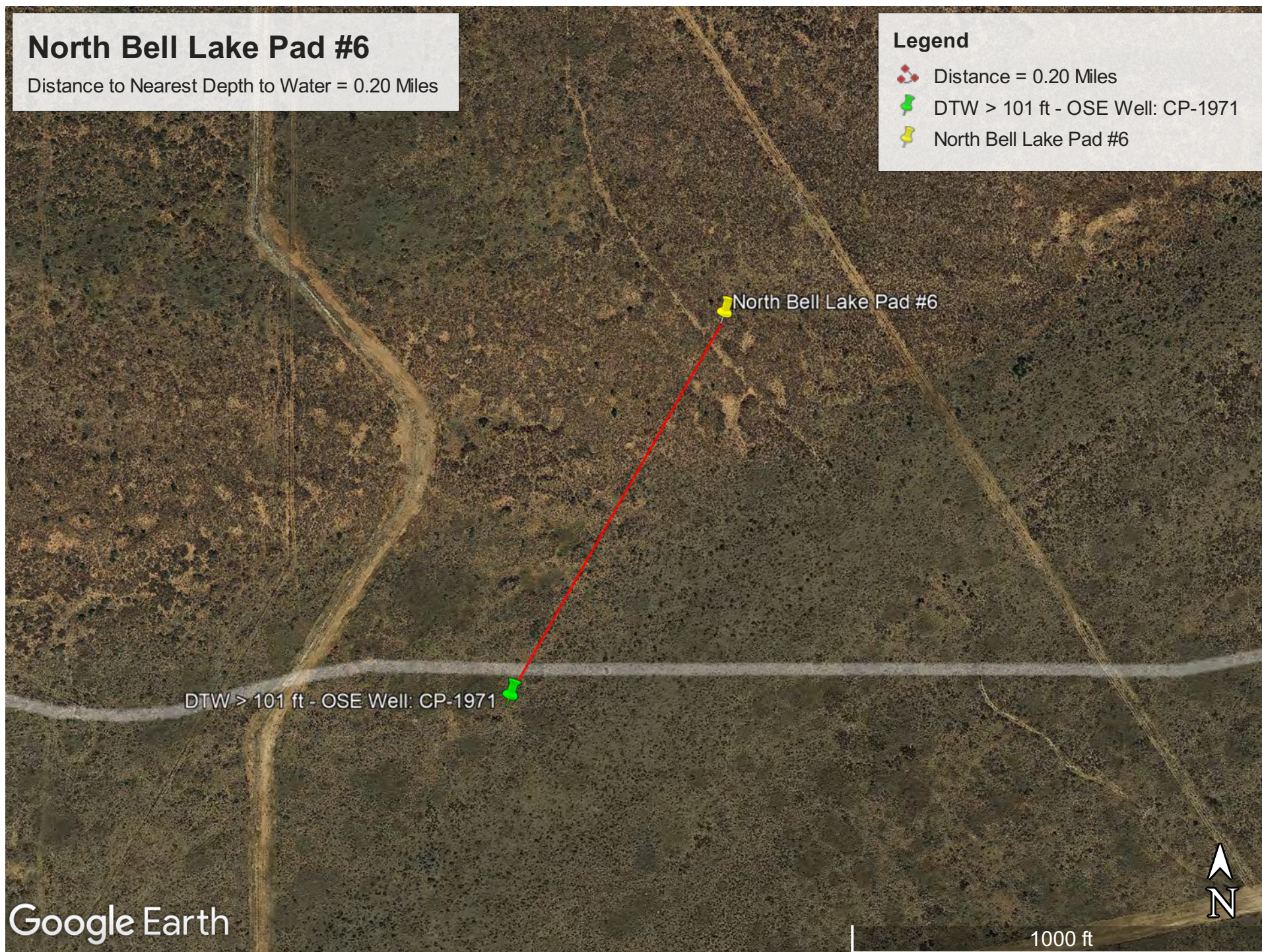
Closure Criteria Supporting Documents



Energizing America

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

North Bell Lake Pad #6 | Incident ID: nAPP2234143414





2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

July 11, 2023

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1971 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-1971 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DII JUL 11 2023 PM 1:10



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us


1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). CP-1971			
	WELL OWNER NAME(S) Kaiser-Francis Oil Company				PHONE (OPTIONAL) 918.491.4615			
	WELL OWNER MAILING ADDRESS 6733 S. Yale Ave				CITY Tulsa	STATE OK	ZIP 74136	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 19	SECONDS 57.42	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	30	56.47	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW L6 Sec.06 T23S R34E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/20/23	DRILLING ENDED 6/20/23	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 6/26/22		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 101		±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

OSE OIL JUL 11 2023 PM 1:10

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
	0	14	14	Sand, fine-grained, poorly graded, slight cemented, Reddish Brown	Y ✓ N		
	14	101	87	Sand, fine-grained, poorly graded, Tan	Y ✓ N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:				TOTAL ESTIMATED WELL YIELD (gpm): 0.00		
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
		MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. <div style="text-align: right;">USE DII JUL 11 2023 PM1:11</div>					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt							
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div>						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1971 POD-1

Well owner: Kaiser-Francis Oil Company

Phone No.: 918.491.4615

Mailing address: 6733 S. Yale Ave

City: Tulsa

State: OK

Zip code: 74136

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge

4) Date well plugging began: 6/26/23 Date well plugging concluded: 6/26/23

5) GPS Well Location: Latitude: 32 deg, 19 min, 57.42 sec
Longitude: 103 deg, 30 min, 56.47 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl),
by the following manner: water level probe

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 6/6/23

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE OIT JUL 11 2023 PM 1:11

- For each interval plugged, describe within the following columns:**

QSE CRT JUL 11 2023 PM1:11

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

7/11/2023

Date _____






2023-07-11-CP-1971-Log-packet-forsign

Final Audit Report

2023-07-11

Created:	2023-07-11
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAqtLhGEolmIZikJlzdnlvQBcvDjM7h7B7

"2023-07-11-CP-1971-Log-packet-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2023-07-11 - 4:56:25 PM GMT- IP address: 24.52.18.211
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2023-07-11 - 4:58:04 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2023-07-11 - 5:35:06 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2023-07-11 - 5:36:21 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2023-07-11 - 5:36:21 PM GMT

USE ON JUL 11 2023 PM 1:11



Adobe Acrobat Sign

National Flood Hazard Layer FIRMMette



103°31'9"W 32°20'22"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

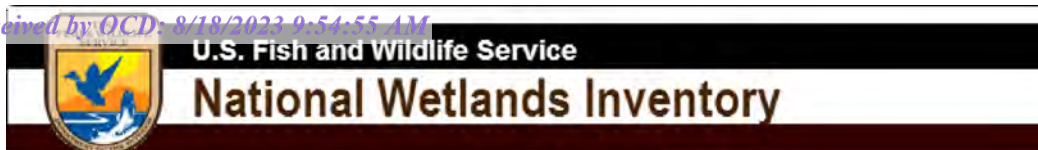


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 12/20/2022 at 11:30 AM 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.



North Bell Lake Pad #6 - Fresh Water Pond 1.4 Miles



December 20, 2022

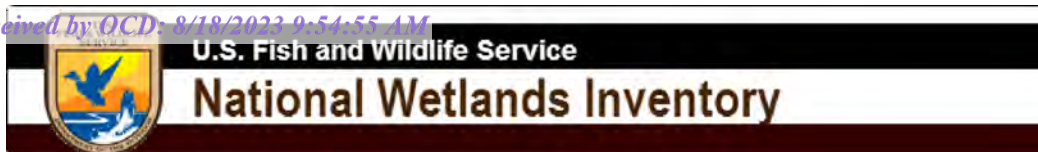
Wetlands

- 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.



North Bell Lake Pad #6 - Riverine 0.47 Miles



December 20, 2022

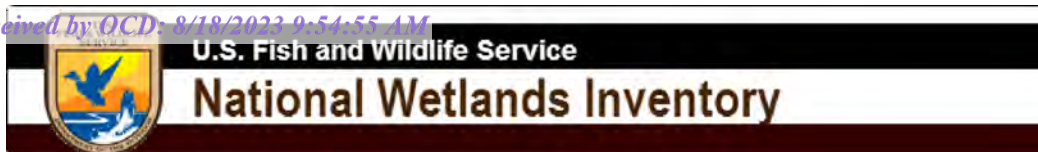
Wetlands

- 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.



North Bell Lake Pad #6 - Wetland 2.53 Miles



December 20, 2022

Wetlands

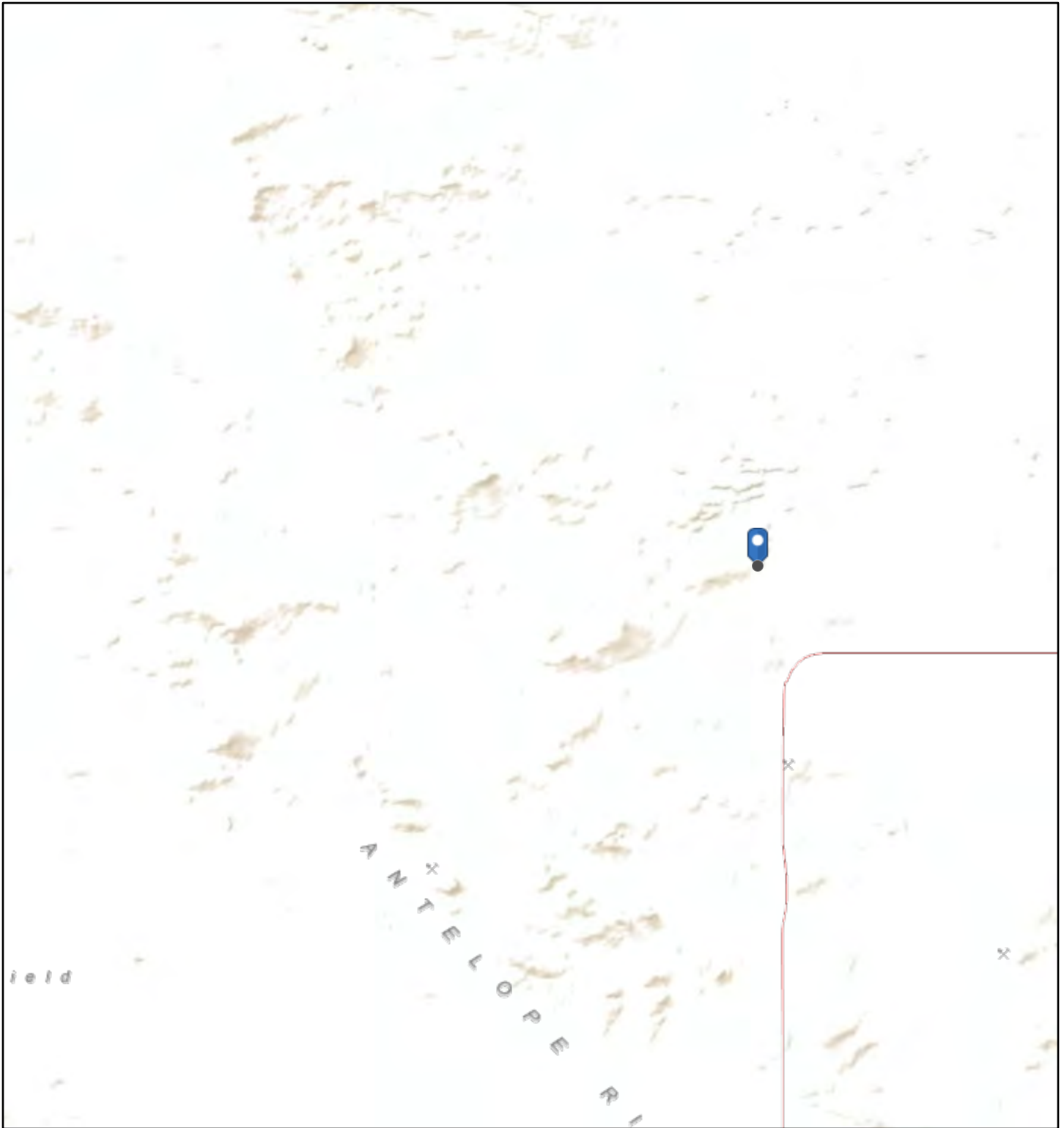
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.

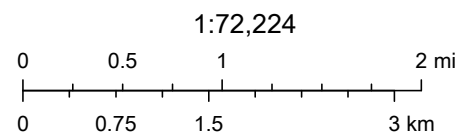
Active Mines near North Bell Lake Pad #6



12/20/2022, 9:42:48 AM

Registered Mines

✕ Aggregate, Stone etc.







Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

North Bell Lake Pad #6

Distance to Nearest Residence = 2.99 Miles

Legend

-  Distance = 2.99 Miles
-  Nearest Residence
-  North Bell Lake Pad #6
-  Point of Release

North Bell Lake Pad #6

Nearest Residence

Google Earth

1 mi



ATTACHMENT D

Karst Map



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

North Bell Lake Pad #6

Karst Potential = Low

Legend

- 01 Low
- 02 Medium
- 03 High
- North Bell Lake Pad #6
- Point of Release

North Bell Lake Pad #6



ATTACHMENT E

Envirotech Inc. Laboratory Analysis Reports



Energizing America

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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6 12-7-2022 Spill

Work Order: E302030

Job Number: 21022-0001

Received: 2/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/9/23

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.

Date Reported: 2/9/23

Ashley Giovengo
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6 12-7-2022 Spill
Workorder: E302030
Date Received: 2/7/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/7/2023 8:15:00AM, under the Project Name: NBL Pad #6 12-7-2022 Spill.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 12-7-2022 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,

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Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Pad #6 12-7-2022 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 02/09/23 16:13
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 - 0'	E302030-01A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
BG01 - 1'	E302030-02A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS01 - 1.5'	E302030-03A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS02 - 1'	E302030-04A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS03B - 0'	E302030-05A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS04D - 0'	E302030-06A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS05C - 0'	E302030-07A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS06A - 0'	E302030-08A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Pad #6 12-7-2022 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 2/9/2023 4:13:19PM
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BG01 - 0'

E302030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2306019	
Benzene	ND	0.0250	1	02/07/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/07/23	
Toluene	ND	0.0250	1	02/07/23	02/07/23	
o-Xylene	ND	0.0250	1	02/07/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/07/23	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2306019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2306043	
Diesel Range Organics (C10-C28)	28.4	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
Surrogate: n-Nonane	110 %	50-200		02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2306032	
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

BG01 - 1'

E302030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/07/23	
Toluene	ND	0.0250	1	02/07/23	02/07/23	
o-Xylene	ND	0.0250	1	02/07/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	ND	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS01 - 1.5'

E302030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/07/23	
Toluene	ND	0.0250	1	02/07/23	02/07/23	
o-Xylene	ND	0.0250	1	02/07/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	ND	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	117	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS02 - 1'

E302030-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/07/23	
Toluene	ND	0.0250	1	02/07/23	02/07/23	
o-Xylene	ND	0.0250	1	02/07/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	37.9	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	211	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS03B - 0'

E302030-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	ND	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS04D - 0'

E302030-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	165	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	131	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	60.9	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS05C - 0'

E302030-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2306019	
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2306019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.9 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2306043	
Diesel Range Organics (C10-C28)	72.2	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>		101 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2306032	
Chloride	395	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS06A - 0'

E302030-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.4 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	32.8	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	136	20.0	1	02/07/23	02/07/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6 12-7-2022 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/9/2023 4:13:19PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2306019-BLK1)

Prepared: 02/07/23 Analyzed: 02/07/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.43		8.00		105	70-130			

LCS (2306019-BS1)

Prepared: 02/07/23 Analyzed: 02/08/23

Benzene	4.46	0.0250	5.00		89.3	70-130			
Ethylbenzene	4.55	0.0250	5.00		91.0	70-130			
Toluene	4.65	0.0250	5.00		92.9	70-130			
o-Xylene	4.77	0.0250	5.00		95.3	70-130			
p,m-Xylene	9.24	0.0500	10.0		92.4	70-130			
Total Xylenes	14.0	0.0250	15.0		93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			

Matrix Spike (2306019-MS1)

Source: E302029-01

Prepared: 02/07/23 Analyzed: 02/07/23

Benzene	4.68	0.0250	5.00	ND	93.6	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.9	61-130			
o-Xylene	4.88	0.0250	5.00	ND	97.6	63-131			
p,m-Xylene	9.59	0.0500	10.0	ND	95.9	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130			

Matrix Spike Dup (2306019-MSD1)

Source: E302029-01

Prepared: 02/07/23 Analyzed: 02/07/23

Benzene	5.54	0.0250	5.00	ND	111	54-133	16.8	20	
Ethylbenzene	5.60	0.0250	5.00	ND	112	61-133	16.9	20	
Toluene	5.73	0.0250	5.00	ND	115	61-130	16.8	20	
o-Xylene	5.76	0.0250	5.00	ND	115	63-131	16.6	20	
p,m-Xylene	11.4	0.0500	10.0	ND	114	63-131	17.0	20	
Total Xylenes	17.1	0.0250	15.0	ND	114	63-131	16.8	20	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6 12-7-2022 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/9/2023 4:13:19PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2306019-BLK1) Prepared: 02/07/23 Analyzed: 02/07/23

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

LCS (2306019-BS2) Prepared: 02/07/23 Analyzed: 02/07/23

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.95		8.00		86.9	70-130			

Matrix Spike (2306019-MS2) Source: E302029-01 Prepared: 02/07/23 Analyzed: 02/08/23

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike Dup (2306019-MSD2) Source: E302029-01 Prepared: 02/07/23 Analyzed: 02/07/23

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	5.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6 12-7-2022 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/9/2023 4:13:19PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

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 (2306043-BLK1)

Prepared: 02/08/23 Analyzed: 02/08/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.5		50.0		107	50-200			

LCS (2306043-BS1)

Prepared: 02/08/23 Analyzed: 02/08/23

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			

Matrix Spike (2306043-MS1)

Source: E302034-01

Prepared: 02/08/23 Analyzed: 02/08/23

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike Dup (2306043-MSD1)

Source: E302034-01

Prepared: 02/08/23 Analyzed: 02/08/23

Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	3.74	20	
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6 12-7-2022 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/9/2023 4:13:19PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2306032-BLK1)					Prepared: 02/07/23 Analyzed: 02/07/23				
Chloride	ND	20.0							
LCS (2306032-BS1)					Prepared: 02/07/23 Analyzed: 02/07/23				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2306032-MS1)					Source: E302030-01		Prepared: 02/07/23 Analyzed: 02/07/23		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2306032-MSD1)					Source: E302030-01		Prepared: 02/07/23 Analyzed: 02/07/23		
Chloride	258	20.0	250	ND	103	80-120	0.657	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:	NBL Pad #6 12-7-2022 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	02/09/23 16:13

- 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# 43778

Page 1 of 1

Client: KFOC		Bill To		Lab Use Only		TAT				EPA Program			
Project: NBL Pad #6 12-7-2012		Attention: Wescom, Inc		Lab WO# E302030		Job Number 21022-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovenco		Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM, 88720		Phone: 505-382-1211						RCRA	
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM, 88720		Phone: 505-382-1211		Email: Ashley.giovenco@wescominc.com							
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 801	GRO/DRO by 801	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
0930	01/03/23	S	1	BG01 - 0'	1							X		
0933	2/3/23	S	1	BG01 - 1'	2							X		
1115	2/3/23	S	1	SS01 - 1.5'	3							X		
1002	2/3/23	S	1	SS02 - 1'	4							X		
1335	2/3/23	S	1	SS03 B - 0'	5							X		
1405	2/3/23	S	1	SS04 D - 0'	6							X		
1535	2/3/23	S	1	SS05 C - 0'	7							X		
1727	2/3/23	S	1	SS06 A - 0'	8							X		

Additional Instructions:

Preserved on ice; Please CC Cole.burton@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) YOUNG ADRIANO	Date 2-6-23	Time 12:22p	Received by: (Signature) Michelle Cuyk	Date 2-6-23	Time 12:22	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) Michelle Cuyk	Date 2-6-23	Time 11:05	Received by: (Signature) Lorenzo Lei	Date 2-6-23	Time 1700	
Relinquished by: (Signature) Lorenzo Lei	Date 2-6-23	Time 2300	Received by: (Signature) Carla Chute	Date 2/7/23	Time 8:15	

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: 2/7/2023 8:49:58AM

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:	02/07/23 08:15	Work Order ID:	E302030
Phone:	(505) 382-1211	Date Logged In:	02/06/23 14:13	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	02/13/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E307124

Job Number: 21022-0001

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/25/23

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.

Date Reported: 7/25/23



Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220

Project Name: NBL Pad #6
Workorder: E307124
Date Received: 7/24/2023 5:30:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
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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

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Sample Summary

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 15:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 21	E307124-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 22	E307124-02A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 23	E307124-03A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 24	E307124-04A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 25	E307124-05A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 26	E307124-06A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 27	E307124-07A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 28	E307124-08A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 29	E307124-09A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 30	E307124-10A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 31	E307124-11A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 32	E307124-12A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 33	E307124-13A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 34	E307124-14A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 35	E307124-15A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 36	E307124-16A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 37	E307124-17A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 38	E307124-18A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 39	E307124-19A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 40	E307124-20A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:52:12PM

Conf 21

E307124-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1580	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1400	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	97.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3750	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 22

E307124-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	962	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	924	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	93.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3330	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 23

E307124-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	2000	1250	50	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	07/24/23	07/24/23	
Surrogate: n-Nonane	106 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	2420	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 24

E307124-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		102 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		102 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	2530	1250	50	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	07/24/23	07/24/23	
Surrogate: n-Nonane		91.8 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3270	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 25

E307124-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		104 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		104 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1420	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	803	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		94.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	2140	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 26

E307124-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1410	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1350	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane		107 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	7330	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 27

E307124-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1040	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1040	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	93.6 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	2760	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 28

E307124-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1370	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1540	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	103 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3140	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 29

E307124-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	98.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	98.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	3000	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1710	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	84.0 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3600	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 30

E307124-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	97.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	97.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1000	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	88.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	1720	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 31

E307124-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1420	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	659	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		80.1 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	1540	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 32

E307124-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1770	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1080	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane		91.0 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	2210	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 33

E307124-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1280	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	876	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		79.7 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	1870	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 34

E307124-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	3130	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1940	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		86.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	4010	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 35

E307124-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	93.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	93.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	3240	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	2380	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	92.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	4120	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 36

E307124-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	935	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	911	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	82.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	4970	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 37

E307124-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.9 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.9 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1020	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	670	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	74.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	4330	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 38

E307124-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1260	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	743	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	75.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	7960	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 39

E307124-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1300	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	804	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	72.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	8290	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 40

E307124-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	2660	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1300	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	86.7 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	1890	200	10	07/24/23	07/24/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:52:12PM

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 (2330003-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

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	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2330003-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.45	0.0250	2.50		97.8	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.4	70-130			
Toluene	2.38	0.0250	2.50		95.1	70-130			
o-Xylene	2.40	0.0250	2.50		96.0	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.4	70-130			
Total Xylenes	7.17	0.0250	7.50		95.6	70-130			
Surrogate: Bromofluorobenzene	0.469		0.500		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			

Matrix Spike (2330003-MS1)

Source: E307124-07

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.62	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135			
Toluene	2.58	0.0250	2.50	ND	103	48-130			
o-Xylene	2.62	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.20	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.82	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.473		0.500		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2330003-MSD1)

Source: E307124-07

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.39	0.0250	2.50	ND	95.5	48-131	9.15	23	
Ethylbenzene	2.33	0.0250	2.50	ND	93.3	45-135	7.59	27	
Toluene	2.37	0.0250	2.50	ND	94.6	48-130	8.60	24	
o-Xylene	2.46	0.0250	2.50	ND	98.5	43-135	6.31	27	
p,m-Xylene	4.84	0.0500	5.00	ND	96.8	43-135	7.18	27	
Total Xylenes	7.30	0.0250	7.50	ND	97.4	43-135	6.89	27	
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:52:12PM

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 (2330003-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2330003-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike (2330003-MS2)

Source: E307124-07

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	58.7	20.0	50.0	ND	117	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike Dup (2330003-MSD2)

Source: E307124-07

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	59.5	20.0	50.0	ND	119	70-130	1.37	20	
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:52:12PM

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 (2330010-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

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 (2330010-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2330010-MS1)

Source: E307124-05

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	1910	250	250	1420	199	38-132			M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			

Matrix Spike Dup (2330010-MSD1)

Source: E307124-05

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	1770	250	250	1420	141	38-132	7.95	20	M4
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:52:12PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2330005-BLK1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	ND	20.0							
LCS (2330005-BS1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	262	20.0	250		105	90-110			
Matrix Spike (2330005-MS1)					Source: E307124-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	4550	100	250	3750	321	80-120			M4
Matrix Spike Dup (2330005-MSD1)					Source: E307124-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	3700	100	250	3750	NR	80-120	20.6	20	M4

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:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 15:52

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



DO#49834

Client: Kaiser Francis Oil Co
 Project: NBL Pad #16
 Project Manager: Georgeann Goodman
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad NM 88220
 Phone: 5757251311
 Email: Georgeann.Goodman@wescominc.com
 Report due by: wescominc.com

Bill To
 Attention: Wescom Inc
 Address: ←
 City, State, Zip: ←
 Phone: ←
 Email: ←

Lab Use Only		TAT			EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E307124</u>	<u>21022-0001</u>	<u>X</u>					
Analysis and Method						RCRA	
State							
NM CO UT AZ TX							
<u>X</u>							

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
0840	7/21	Soil	1	Conf 21	1							X		
0842			1	Conf 22	2							X		
0844			1	Conf 23	3							X		
0846			1	Conf 24	4							X		
0848			1	Conf 25	5							X		
0850			1	Conf 26	6							X		
0852			1	Conf 27	7							X		
0854			1	Conf 28	8							X		
0856			1	Conf 29	9							X		
0858	✓	✓	1	Conf 30	10							X		

Additional Instructions:

As seen on page one. Thank you! CC: Shar. Harvester, Shane. Stolt, Georgeann. Goodman and Joey. Crook @ 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.

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	7/21/23	3:00pm	<u>Michelle Fung</u>	7-21-23	1500
<u>Michelle Fung</u>	7-22-23	1830	<u>[Signature]</u>	7-24-23	530
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only	
Received on ice:	<u>Y/N</u>
T1	T2 T3
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

Envirotech Analytical Laboratory

Printed: 7/24/2023 8:16:27AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Kaiser Francis Oil Company	Date Received:	07/24/23 05:30	Work Order ID:	E307124
Phone:	575-725-1311	Date Logged In:	07/24/23 06:13	Logged In By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	07/24/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Courier**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:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E307125

Job Number: 21022-0001

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/25/23

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.

Date Reported: 7/25/23

Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6
Workorder: E307125
Date Received: 7/24/2023 5:30:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

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Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
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

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Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Pad #6 Project Number: 21022-0001 Project Manager: Georgeann Goodman	Reported: 07/25/23 15:55
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 01	E307125-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 02	E307125-02A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 03	E307125-03A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 04	E307125-04A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 05	E307125-05A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 06	E307125-06A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 07	E307125-07A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 08	E307125-08A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 09	E307125-09A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 10	E307125-10A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 11	E307125-11A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 12	E307125-12A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 13	E307125-13A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 14	E307125-14A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 15	E307125-15A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 16	E307125-16A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 17	E307125-17A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 18	E307125-18A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 19	E307125-19A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 20	E307125-20A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 01

E307125-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1590	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	953	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>						
	97.9 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2350	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 02

E307125-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	82.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1450	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	969	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	94.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2090	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 03

E307125-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	80.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1540	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1050	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	94.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1110	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 04

E307125-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	80.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1010	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	849	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	84.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	3020	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 05

E307125-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	80.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1090	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	604	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	77.0 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2660	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 06

E307125-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	81.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1660	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1200	1000	20	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	96.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2050	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 07

E307125-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.6 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	511	50.0	2	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	485	100	2	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>		107 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1930	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 08

E307125-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	80.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1130	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	912	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	87.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2750	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 09

E307125-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		80.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1170	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	890	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>		92.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2690	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 10

E307125-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		81.9 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1310	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	1000	20	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>		88.8 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2190	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 11

E307125-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	2980	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1910	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	97.4 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	3680	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 12

E307125-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1390	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1420	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	96.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1860	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

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Conf 13

E307125-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	2440	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1550	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	101 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1010	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 14

E307125-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1590	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	967	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	107 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1650	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 15

E307125-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.2 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1680	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1330	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	96.2 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2780	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 16

E307125-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	3310	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1750	1000	20	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	103 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1170	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 17

E307125-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1250	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	93.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1250	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 18

E307125-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.1 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1580	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1300	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	88.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1770	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

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Conf 19

E307125-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.2 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1110	50.0	2	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	805	100	2	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	79.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	4280	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 20

E307125-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	516	50.0	2	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	326	100	2	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	81.6 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2070	40.0	2	07/24/23	07/24/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

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 (2330002-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

LCS (2330002-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.37	0.0250	5.00		87.3	70-130			
Ethylbenzene	4.55	0.0250	5.00		91.0	70-130			
Toluene	4.60	0.0250	5.00		91.9	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.44	0.0500	10.0		94.4	70-130			
Total Xylenes	14.2	0.0250	15.0		94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		102	70-130			

Matrix Spike (2330002-MS1)

Source: E307125-07

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.52	0.0250	5.00	ND	90.4	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.9	61-133			
Toluene	4.78	0.0250	5.00	ND	95.6	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131			
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

Matrix Spike Dup (2330002-MSD1)

Source: E307125-07

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133	0.0475	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.3	61-133	0.471	20	
Toluene	4.79	0.0250	5.00	ND	95.8	61-130	0.243	20	
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131	0.237	20	
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	63-131	0.468	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.7	63-131	0.391	20	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

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 (2330002-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.65		8.00		83.1	70-130			

LCS (2330002-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		82.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.80		8.00		85.0	70-130			

Matrix Spike (2330002-MS2)

Source: E307125-07

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.55		8.00		81.9	70-130			

Matrix Spike Dup (2330002-MSD2)

Source: E307125-07

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.7	70-130	1.23	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.64		8.00		83.0	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

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 (2330009-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.3		50.0		105	50-200			

LCS (2330009-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

Matrix Spike (2330009-MS1)

Source: E307125-01

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	1700	125	250	1590	44.4	38-132			
Surrogate: n-Nonane	42.4		50.0		84.7	50-200			

Matrix Spike Dup (2330009-MSD1)

Source: E307125-01

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	2050	125	250	1590	187	38-132	19.0	20	M4
Surrogate: n-Nonane	47.5		50.0		95.1	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

Anions by EPA 300.0/9056A

Analyst: BA

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 (2330006-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Chloride ND 20.0

LCS (2330006-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Chloride 257 20.0 250 103 90-110

Matrix Spike (2330006-MS1)

Source: E307125-01

Prepared: 07/24/23 Analyzed: 07/24/23

Chloride 2550 200 250 2350 81.7 80-120

Matrix Spike Dup (2330006-MSD1)

Source: E307125-01

Prepared: 07/24/23 Analyzed: 07/24/23

Chloride 2410 200 250 2350 23.1 80-120 5.90 20 M4

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:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 15:55

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

PO # 49834

Client: <u>Kaiser Francis Oil Co</u>					Bill To: <u>Wescominc</u>					Lab Use Only				TAT				EPA Program					
Project: <u>NBL Pad #16</u>					Attention: <u>Georgeann Goodman</u>					Lab WO# <u>E307125</u>				Job Number <u>21022-0001</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Georgeann Goodman</u>					Address: <u>1224 Strandpipe Rd</u>					Analysis and Method								RCRA					
Address: <u>1224 Strandpipe Rd</u>					City, State, Zip: <u>Carlsbad NM 88520</u>																		
City, State, Zip: <u>Carlsbad NM 88520</u>					Phone: <u>5757251311</u>													State					
Phone: <u>5757251311</u>					Email: <u>Georgeann.Goodman@wescominc.com</u>																		
Report due by: <u> </u>																		NM CO UT AZ TX					
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			
0800	7/21	Soil	1	Conf 01	1									X									
0802			1	Conf 02	2									X									
0804			1	Conf 03	3									X									
0806			1	Conf 04	4									X									
0808			1	Conf 05	5									X									
0810			1	Conf 06	6									X									
0812			1	Conf 07	7									X									
0814			1	Conf 08	8									X									
0816			1	Conf 09	9									X									
0818	↓	↓	1	Conf 10	10									X									
Additional Instructions: <u>Shar. harvester@wescominc.com — Shane. Stolp@wescominc.com</u>																							
<u>Please send to georgeann.goodman@wescominc.com — Joey. Croce@wescominc.com</u>																							
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) <u>[Signature]</u>												Received by: (Signature) <u>[Signature]</u>											
Date <u>7/21/23</u> Time <u>3:00pm</u>												Date <u>7-21-23</u> Time <u>1500</u>											
Relinquished by: (Signature) <u>[Signature]</u>												Received by: (Signature) <u>[Signature]</u>											
Date <u>7-22-23</u> Time <u>1830</u>												Date <u>7-24-23</u> Time <u>530</u>											
Relinquished by: (Signature) <u>[Signature]</u>												Received by: (Signature) <u>[Signature]</u>											
Date <u> </u> Time <u> </u>												Date <u> </u> Time <u> </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

PO#49834

Client: Kaiser Francis Oil Co
 Project: NBL Pad #16
 Project Manager: Georgiann g
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad NM 88220
 Phone: 575 7251311
 Email: Georgiann.Goodman@
 Report due by: Wescominc.com

Bill To
 Attention: Wescom Inc
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad NM
 Phone: <
 Email: <

Lab Use Only		TAT			EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E367125</u>	<u>21022-0001</u>	<u>X</u>					
Analysis and Method							RCRA
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	State	
						NM	CO
						<u>X</u>	
						UT	AZ
						TX	
						Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
0820	7/21	Soil	1	Conf 11	11
0822	↓	↓	1	Conf 12	12
0824	↓	↓	1	Conf 13	13
0826	↓	↓	1	Conf 14	14
0828	↓	↓	1	Conf 15	15
0830	↓	↓	1	Conf 16	16
0832	↓	↓	1	Conf 17	17
0834	↓	↓	1	Conf 18	18
0836	↓	↓	1	Conf 19	19
0838	↓	↓	1	Conf 20	20

Additional Instructions:

as seen on page one. Thank you!

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	7/21/23	3:00 PM	<u>Michelle Eumala</u>	7-21-23	1500
<u>Michelle Eumala</u>	7-22-23	1830	<u>[Signature]</u>	7-24-23	530
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
 Received on ice: (Y) N
 T1 _____ T2 _____ T3 _____
 AVG Temp °C 4

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Envirotech Analytical Laboratory

Printed: 7/24/2023 8:30:32AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Kaiser Francis Oil Company	Date Received:	07/24/23 05:30	Work Order ID:	E307125
Phone:	575-725-1311	Date Logged In:	07/24/23 06:22	Logged In By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	07/24/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierSample 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 InstructionComments/Resolution

Project (NBL Pad #6) has been separated into 3 workorders due to high volume of samples. Workorders are as follows: E307124, E307125 and E307126

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

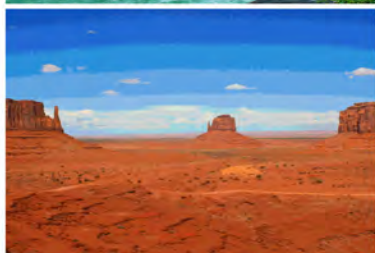
Date



envirotech Inc.

Report to:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E307126

Job Number: 21022-0001

Received: 7/24/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/25/23

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.

Date Reported: 7/25/23

Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6
Workorder: E307126
Date Received: 7/24/2023 5:30:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Rayny Hagan
Technical Representative
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Pad #6 Project Number: 21022-0001 Project Manager: Georgeann Goodman	Reported: 07/25/23 17:40
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 41	E307126-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 42	E307126-02A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 43	E307126-03A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 44	E307126-04A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 45	E307126-05A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 46	E307126-06A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 47	E307126-07A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 48	E307126-08A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 49	E307126-09A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 50	E307126-10A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 51	E307126-11A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 52	E307126-12A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 41

E307126-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: Bromofluorobenzene</i>	100 %	70-130		07/24/23	07/24/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	93.4 %	70-130		07/24/23	07/24/23	
<i>Surrogate: Toluene-d8</i>	100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: Bromofluorobenzene</i>	100 %	70-130		07/24/23	07/24/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	93.4 %	70-130		07/24/23	07/24/23	
<i>Surrogate: Toluene-d8</i>	100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1840	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1400	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	90.7 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	2460	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 42

E307126-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1210	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1160	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		91.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3280	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 43

E307126-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1170	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane		93.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3920	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 44

E307126-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		104 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		104 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1040	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	995	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		102 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3990	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 45

E307126-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	944	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	83.2 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3990	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 46

E307126-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.3 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.3 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1350	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1010	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	87.0 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	4140	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 47

E307126-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.2 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	98.1 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.2 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	98.1 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1200	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1070	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	75.2 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3730	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 48

E307126-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1050	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	966	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	73.0 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	6980	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 49

E307126-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	2330	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	2660	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	83.6 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	4410	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 50

E307126-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	2110	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1320	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	70.8 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	4870	400	20	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 51

E307126-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.0 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.0 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1610	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	787	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	70.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	2770	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 52

E307126-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1130	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	585	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	68.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	4690	400	20	07/24/23	07/24/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

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 (2330004-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2330004-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.38	0.0250	2.50		95.1	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.3	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.45	0.0250	2.50		97.8	70-130			
p,m-Xylene	4.85	0.0500	5.00		97.0	70-130			
Total Xylenes	7.30	0.0250	7.50		97.3	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2330004-MS1)

Source: E307126-02

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.62	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.54	0.0250	2.50	ND	102	48-130			
o-Xylene	2.60	0.0250	2.50	ND	104	43-135			
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.78	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Matrix Spike Dup (2330004-MSD1)

Source: E307126-02

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.62	0.0250	2.50	ND	105	48-131	0.114	23	
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135	1.12	27	
Toluene	2.61	0.0250	2.50	ND	104	48-130	2.58	24	
o-Xylene	2.66	0.0250	2.50	ND	106	43-135	2.32	27	
p,m-Xylene	5.29	0.0500	5.00	ND	106	43-135	2.14	27	
Total Xylenes	7.95	0.0250	7.50	ND	106	43-135	2.20	27	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

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 (2330004-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2330004-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike (2330004-MS2)

Source: E307126-02

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	59.8	20.0	50.0	ND	120	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2330004-MSD2)

Source: E307126-02

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	60.9	20.0	50.0	ND	122	70-130	1.82	20	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

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 (2330011-BLK1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.1		50.0		84.3	50-200			

LCS (2330011-BS1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Diesel Range Organics (C10-C28)	211	25.0	250		84.4	38-132			
Surrogate: n-Nonane	36.5		50.0		73.0	50-200			

Matrix Spike (2330011-MS1)					Source: E307126-12		Prepared: 07/24/23 Analyzed: 07/24/23		
Diesel Range Organics (C10-C28)	1280	250	250	1130	58.6	38-132			
Surrogate: n-Nonane	33.8		50.0		67.5	50-200			

Matrix Spike Dup (2330011-MSD1)					Source: E307126-12		Prepared: 07/24/23 Analyzed: 07/24/23		
Diesel Range Organics (C10-C28)	1430	250	250	1130	119	38-132	11.1	20	
Surrogate: n-Nonane	35.8		50.0		71.6	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2330007-BLK1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	ND	20.0							
LCS (2330007-BS1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	266	20.0	250		106	90-110			
Matrix Spike (2330007-MS1)					Source: E307126-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	2980	100	250	2460	208	80-120			M4
Matrix Spike Dup (2330007-MSD1)					Source: E307126-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	2810	100	250	2460	139	80-120	6.02	20	M4

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:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 17:40

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Client: Kaiser Francis Oil Co		Bill To		Lab Use Only				TAT				EPA Program				
Project: NBL Pad #16		Attention: Wescom Inc		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Georgeann G.		Address: 1224 Standpipe		E307126		21022-0001		X								
Address: 1224 Standpipe Rd		City, State, Zip		Analysis and Method									RCRA			
City, State, Zip: Calisbad Rd 88520		Phone:														
Phone: 5757251311		Email:										State				
Email: georgeann.goodman@												NM	CO	UT	AZ	TX
Report due by: wescominc.com												X				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/D	GRO/D	BTEX by	VOC by	Metals	Chlorid					BGDOC	BGDOC		Remarks
0920	7/21	Soil	1	Conf 41	1											X			
0922	↓	↓	1	Conf 42	2											X			
0924	↓	↓	1	Conf 43	3											X			
0926	↓	↓	1	Conf 44	4											X			
0928	↓	↓	1	Conf 45	5											X			
0930	↓	↓	1	Conf 46	6											X			
0932	↓	↓	1	Conf 47	7											X			
0934	↓	↓	1	Conf 48	8											X			
0936	↓	↓	1	Conf 49	9											X			
0938	↓	↓	1	Conf 50	10											X			

Additional Instructions:

As seen on page one. Thank You and very cord. @ uescminc.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 7/21/23	Time 3:00pm	Received by: (Signature) <i>[Signature]</i>	Date 7-21-23	Time 1500	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 7-22-23	Time 1830	Received by: (Signature) <i>[Signature]</i>	Date 7-24-23	Time 530	
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.



envirotech

PO #49834

Client: <u>Kaiser Francis Oil Co</u>		Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>NBL Pool #6</u>		Attention: <u>Wescominc</u>		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Georgeann Goodman</u>		Address: <u>1224 Standpipe Rd</u>		E357126		21022-0001		X					
Address: <u>1224 Standpipe Rd</u>		City, State, Zip: <u>Carlsbad NM 88220</u>		Analysis and Method								RCRA	
City, State, Zip: <u>Carlsbad NM 88220</u>		Phone: <u>5757251311</u>											
Email: <u>Georgeann.Goodman@wescominc.com</u>		Email: <u>Georgeann.Goodman@wescominc.com</u>											
Report due by: <u>Wescominc.com</u>													

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
0940	7/21	Soil	1	CONF 51	11							X		
0942	7/21	Soil	1	CONF 52	12							X		

Additional Instructions:

As seen on page one. Thank You!

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>[Signature]</u>	7/21/23	3:00pm	<u>Michelle Gungah</u>	7-21-23	1500	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>Michelle Gungah</u>	7-22-23	1830	<u>[Signature]</u>	7-24-23	530	
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.



envirotech

Envirotech Analytical Laboratory

Printed: 7/24/2023 8:31:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Kaiser Francis Oil Company	Date Received:	07/24/23 05:30	Work Order ID:	E307126
Phone:	575-725-1311	Date Logged In:	07/24/23 06:26	Logged In By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	07/24/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierSample 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 InstructionComments/Resolution

Project (NBL Pad #6) has been separated into 3 workorders due to high volume of samples. Workorders are as follows: E307124, E307125 and E307126

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

Date



envirotech Inc.

Report to:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E307173

Job Number: 21022-0001

Received: 7/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/1/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/1/23

Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6
Workorder: E307173
Date Received: 7/31/2023 7:15:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/31/2023 7:15:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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,

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Sample Summary

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	08/01/23 16:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 4A	E307173-01A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 6A	E307173-02A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 7A	E307173-03A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 8A	E307173-04A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 9A	E307173-05A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 10A	E307173-06A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 11A	E307173-07A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 15A	E307173-08A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 16A	E307173-09A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 21A	E307173-10A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 24A	E307173-11A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 26A	E307173-12A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 34A	E307173-13A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 35A	E307173-14A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 40A	E307173-15A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 41A	E307173-16A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 49A	E307173-17A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 50A	E307173-18A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 4A

E307173-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	102 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	103 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	102 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	103 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	112 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	632	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 6A

E307173-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		105 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	20.0	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 7A

E307173-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	92.0 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	92.0 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	111 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	34.1	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 8A

E307173-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	94.1 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	94.1 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	110 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	23.9	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 9A

E307173-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		111 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	46.9	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 10A

E307173-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		107 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		102 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		107 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		102 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		88.8 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	26.8	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 11A

E307173-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.4 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	26.2	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 15A

E307173-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		105 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		105 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	89.0	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.2 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	1650	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 16A

E307173-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	98.1	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		96.5 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	1430	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 21A

E307173-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	97.3 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	93.5 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	97.3 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	93.5 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	95.1 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	795	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 24A

E307173-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	92.7 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	92.7 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	92.8	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	93.4 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	2370	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 26A

E307173-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	94.6 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	94.6 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	66.8	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	72.8	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	93.1 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	3680	40.0	2	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 34A

E307173-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.1 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	736	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 35A

E307173-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		106 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		106 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.3 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	931	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 40A

E307173-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		104 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		104 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		95.2 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	715	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 41A

E307173-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.4 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	680	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 49A

E307173-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		93.3 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		93.3 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		91.9 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	44.6	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/1/2023 4:27:44PM

Conf 50A

E307173-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		93.1 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	34.3	20.0	1	07/31/23	07/31/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/1/2023 4:27:44PM

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 (2331001-BLK1)

Prepared: 07/31/23 Analyzed: 07/31/23

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	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

LCS (2331001-BS1)

Prepared: 07/31/23 Analyzed: 07/31/23

Benzene	2.49	0.0250	2.50		99.4	70-130			
Ethylbenzene	2.35	0.0250	2.50		94.0	70-130			
Toluene	2.43	0.0250	2.50		97.1	70-130			
o-Xylene	2.46	0.0250	2.50		98.6	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	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike (2331001-MS1)

Source: E307173-07

Prepared: 07/31/23 Analyzed: 07/31/23

Benzene	2.62	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.48	0.0250	2.50	ND	99.2	45-135			
Toluene	2.57	0.0250	2.50	ND	103	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.27	0.0500	5.00	ND	105	43-135			
Total Xylenes	7.94	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike Dup (2331001-MSD1)

Source: E307173-07

Prepared: 07/31/23 Analyzed: 07/31/23

Benzene	2.60	0.0250	2.50	ND	104	48-131	0.575	23	
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135	1.52	27	
Toluene	2.57	0.0250	2.50	ND	103	48-130	0.0390	24	
o-Xylene	2.54	0.0250	2.50	ND	102	43-135	4.91	27	
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	4.01	27	
Total Xylenes	7.61	0.0250	7.50	ND	101	43-135	4.31	27	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/1/2023 4:27:44PM

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 (2331001-BLK1)

Prepared: 07/31/23 Analyzed: 07/31/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

LCS (2331001-BS2)

Prepared: 07/31/23 Analyzed: 07/31/23

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130			
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike (2331001-MS2)

Source: E307173-07

Prepared: 07/31/23 Analyzed: 07/31/23

Gasoline Range Organics (C6-C10)	64.2	20.0	50.0	ND	128	70-130			
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike Dup (2331001-MSD2)

Source: E307173-07

Prepared: 07/31/23 Analyzed: 07/31/23

Gasoline Range Organics (C6-C10)	66.4	20.0	50.0	ND	133	70-130	3.45	20	M1
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/1/2023 4:27:44PM

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 (2331004-BLK1)

Prepared: 07/31/23 Analyzed: 07/31/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	50-200			

LCS (2331004-BS1)

Prepared: 07/31/23 Analyzed: 07/31/23

Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	49.4		50.0		98.9	50-200			

Matrix Spike (2331004-MS1)

Source: E307173-08

Prepared: 07/31/23 Analyzed: 07/31/23

Diesel Range Organics (C10-C28)	336	25.0	250	89.0	98.8	38-132			
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			

Matrix Spike Dup (2331004-MSD1)

Source: E307173-08

Prepared: 07/31/23 Analyzed: 07/31/23

Diesel Range Organics (C10-C28)	327	25.0	250	89.0	95.1	38-132	2.81	20	
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/1/2023 4:27:44PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2331006-BLK1)					Prepared: 07/31/23 Analyzed: 07/31/23				
Chloride	ND	20.0							
LCS (2331006-BS1)					Prepared: 07/31/23 Analyzed: 07/31/23				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2331006-MS1)					Source: E307173-01		Prepared: 07/31/23 Analyzed: 07/31/23		
Chloride	918	20.0	250	632	114	80-120			
Matrix Spike Dup (2331006-MSD1)					Source: E307173-01		Prepared: 07/31/23 Analyzed: 07/31/23		
Chloride	944	20.0	250	632	125	80-120	2.77	20	M2

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:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	08/01/23 16:27

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



PO #500666

Client: <u>Kaiser Francis Oil Co</u>		Bill To		Lab Use Only		TAT				EPA Program	
Project: <u>NBL Pad #16</u>		Attention: <u>Wescom</u>		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Georgeann</u>		Address: <u>1224 Standpipe Rd</u>		Job Number		<input checked="" type="checkbox"/>					
Address:		City, State, Zip: <u>Carlsbad NM</u>		Analysis and Method							
City, State, Zip		Phone: <u>5157251311</u>		DRO/ORO by 8015							
Phone:		Email: <u>georgeann</u>		GRO/DRO by 8015							
Email:		Email: <u>goodman@wescominc.com</u>		BTEX by 8021							
Report due by:				VOC by 8260							
				Metals 6010							
				Chloride 300.0							
				BGDOC NM							
				BGDOC TX							
				State							
				NM		CO	UT	AZ	TX		
				<input checked="" type="checkbox"/>							
				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
1522	7/27	S	1	Conf 4A	1							X		
1536	7/27	S	1	Conf 6A	2							X		
1551	7/27	S	1	Conf 7A	3							X		
1534	7/27	S	1	Conf 8A	4							X		
1539	7/27	S	1	Conf 9A	5							X		
1545	7/27	S	1	Conf 10A	6							X		
1549	7/27	S	1	Conf 11A	7							X		
1434	7/27	S	1	Conf 15A	8							X		
1420	7/27	S	1	Conf 16A	9							X		
1440	7/27	S	1	Conf 21A	10							X		

Additional Instructions: Please send to georgeann.goodman@wescominc.com
Shari.harvester@wescominc.com Jey.Croce@wescominc.com Shane.Stolp@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:

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>
<u>[Signature]</u>	7/27/23	845PM	<u>Michelle Gung</u>	7-28-23	1040	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>[Signature]</u>	7-28-23	1700	<u>Andrew Musso</u>	7-28-23	1730	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>Andrew Musso</u>	7-29-23	2400	<u>Cathy Man</u>	7/31/23	7:15	

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

Additional Instructions: <u>Please see page one. Thank You!</u>					
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 5 °C on subsequent days.
Sampled by: <u>80712386</u>					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	<u>8/28/23</u>	<u>3:45 PM</u>	<u>Michelle Gay</u>	<u>7-28-23</u>	<u>1040</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>Michelle Gay</u>	<u>7-28-23</u>	<u>1700</u>	<u>Andrew</u>	<u>7-28-23</u>	<u>1730</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>Andrew</u>	<u>7-29-23</u>	<u>2400</u>	<u>Cathy Man</u>	<u>7/31/23</u>	<u>7:15</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: 7/31/2023 8:41:33AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Kaiser Francis Oil Company	Date Received:	07/31/23 07:15	Work Order ID:	E307173
Phone:	575-725-1311	Date Logged In:	07/28/23 15:23	Logged In By:	Caitlin Mars
Email:	georgeann.goodman@wesominc.com	Due Date:	07/31/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E308056

Job Number: 21022-0001

Received: 8/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/11/23

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.

Date Reported: 8/11/23

Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6
Workorder: E308056
Date Received: 8/10/2023 7:00:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/10/2023 7:00:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
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West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	08/11/23 14:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 01A	E308056-01A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 02A	E308056-02A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 03A	E308056-03A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 05A	E308056-04A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 12A	E308056-05A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 13A	E308056-06A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 14A	E308056-07A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 17A	E308056-08A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 18A	E308056-09A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 19A	E308056-10A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 23A	E308056-11A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 25A	E308056-12A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 27A	E308056-13A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 28A	E308056-14A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 29A	E308056-15A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 30A	E308056-16A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 31A	E308056-17A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 32A	E308056-18A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 33A	E308056-19A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 37A	E308056-20A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 01A

E308056-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	106 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	97.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	106 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	97.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	99.7 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	55.0	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 02A

E308056-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		97.9 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		97.9 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	39.6	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		101 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	197	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 03A

E308056-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		99.9 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		99.9 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		101 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	99.9	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 05A

E308056-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		101 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	85.5	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 12A

E308056-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		109 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		109 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		100 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	105	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 13A

E308056-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.0 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.0 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		94.2 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	33.0	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 14A

E308056-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.6 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.6 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		98.9 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	213	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 17A

E308056-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		100 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	64.1	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 18A

E308056-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.7 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.7 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		100 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	279	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 19A

E308056-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		99.3 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		99.3 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		101 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	165	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 23A

E308056-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	94.7 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	89.8 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	94.7 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	89.8 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	98.7 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	98.2	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 25A

E308056-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/11/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/11/23	
Toluene	ND	0.0250	1	08/09/23	08/11/23	
o-Xylene	ND	0.0250	1	08/09/23	08/11/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/11/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/11/23	
Surrogate: Bromofluorobenzene		109 %	70-130	08/09/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	08/09/23	08/11/23	
Surrogate: Toluene-d8		102 %	70-130	08/09/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/11/23	
Surrogate: Bromofluorobenzene		109 %	70-130	08/09/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	08/09/23	08/11/23	
Surrogate: Toluene-d8		102 %	70-130	08/09/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/11/23	
Surrogate: n-Nonane		97.8 %	50-200	08/09/23	08/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	50.5	20.0	1	08/09/23	08/11/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 27A

E308056-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.1 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.1 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	82.2 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	262	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 28A

E308056-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.8 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.8 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	85.1 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	185	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 29A

E308056-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.1 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.1 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	85.5 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	235	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 30A

E308056-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	91.1 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	91.1 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	84.7 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	331	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 31A

E308056-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.8 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.8 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	82.5 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	139	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 32A

E308056-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.3 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.3 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	85.4 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	47.2	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 33A

E308056-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	89.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	89.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	84.7 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	86.4	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:55:16PM

Conf 37A

E308056-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.1 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.3 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene	93.1 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8	90.3 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	87.0 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332070
Chloride	133	20.0	1	08/09/23	08/10/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:55:16PM

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 (2332061-BLK1)

Prepared: 08/09/23 Analyzed: 08/10/23

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	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

LCS (2332061-BS1)

Prepared: 08/09/23 Analyzed: 08/10/23

Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.55	0.0250	2.50		102	70-130			
Toluene	2.48	0.0250	2.50		99.3	70-130			
o-Xylene	2.51	0.0250	2.50		101	70-130			
p,m-Xylene	4.96	0.0500	5.00		99.1	70-130			
Total Xylenes	7.47	0.0250	7.50		99.6	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike (2332061-MS1)

Source: E308056-10

Prepared: 08/09/23 Analyzed: 08/10/23

Benzene	2.26	0.0250	2.50	ND	90.5	48-131			
Ethylbenzene	2.21	0.0250	2.50	ND	88.5	45-135			
Toluene	2.16	0.0250	2.50	ND	86.3	48-130			
o-Xylene	2.25	0.0250	2.50	ND	89.9	43-135			
p,m-Xylene	4.41	0.0500	5.00	ND	88.3	43-135			
Total Xylenes	6.66	0.0250	7.50	ND	88.8	43-135			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

Matrix Spike Dup (2332061-MSD1)

Source: E308056-10

Prepared: 08/09/23 Analyzed: 08/10/23

Benzene	2.46	0.0250	2.50	ND	98.4	48-131	8.45	23	
Ethylbenzene	2.35	0.0250	2.50	ND	93.9	45-135	5.92	27	
Toluene	2.30	0.0250	2.50	ND	92.2	48-130	6.64	24	
o-Xylene	2.36	0.0250	2.50	ND	94.3	43-135	4.80	27	
p,m-Xylene	4.61	0.0500	5.00	ND	92.2	43-135	4.32	27	
Total Xylenes	6.97	0.0250	7.50	ND	92.9	43-135	4.48	27	
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:55:16PM

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 (2332061-BLK1)

Prepared: 08/09/23 Analyzed: 08/10/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

LCS (2332061-BS2)

Prepared: 08/09/23 Analyzed: 08/10/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.8	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike (2332061-MS2)

Source: E308056-10

Prepared: 08/09/23 Analyzed: 08/10/23

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike Dup (2332061-MSD2)

Source: E308056-10

Prepared: 08/09/23 Analyzed: 08/10/23

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.0	70-130	5.47	20	
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:55:16PM

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 (2332060-BLK1) Prepared: 08/09/23 Analyzed: 08/10/23

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 (2332060-BS1) Prepared: 08/09/23 Analyzed: 08/10/23

Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	49.8		50.0		99.7	50-200			

Matrix Spike (2332060-MS1) Source: E308056-01 Prepared: 08/09/23 Analyzed: 08/10/23

Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	48.4		50.0		96.8	50-200			

Matrix Spike Dup (2332060-MSD1) Source: E308056-01 Prepared: 08/09/23 Analyzed: 08/10/23

Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132	3.77	20	
Surrogate: n-Nonane	48.7		50.0		97.3	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:55:16PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2332070-BLK1)					Prepared: 08/09/23 Analyzed: 08/10/23				
Chloride	ND	20.0							
LCS (2332070-BS1)					Prepared: 08/09/23 Analyzed: 08/10/23				
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2332070-MS1)					Source: E308056-01		Prepared: 08/09/23 Analyzed: 08/10/23		
Chloride	302	20.0	250	55.0	99.0	80-120			
Matrix Spike Dup (2332070-MSD1)					Source: E308056-01		Prepared: 08/09/23 Analyzed: 08/10/23		
Chloride	306	20.0	250	55.0	101	80-120	1.27	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:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	08/11/23 14:55

- 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#50610 For 11
PO#50609 For 20

Page 1 of 4

Client: Kaiser Francis Oil Co
 Project: NRI Pad #6
 Project Manager: Georgeann G
 Address:
 City, State, Zip:
 Phone: 5757251311
 Email: Georgeann.goodman@wescominc.com
 Report due by: wescominc.com

Bill To
 Attention: Wescom Inc
 Address: 1224 Standpipe
 City, State, Zip: Carlsbad NM
 Phone:
 Email:

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E308050	21022-0001	X					
Analysis and Method							
DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						X	
State							
NM	CO	UT	AZ	TX			
X							
Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
100	8/7/23	S	1	Conf 01A	1
103			1	Conf 02A	2
1105			1	Conf 03A	3
1108			1	Conf 05A	4
1110			1	Conf 12A	5
1113			1	Conf 13A	6
1115			1	Conf 14A	7
1117			1	Conf 17A	8
1120			1	Conf 18A	9
1121			1	Conf 19A	10

Additional Instructions: Shar. harvester@wescominc.com
 Georgeann.goodman@wescominc.com

Joey. Croce@wescominc.com
 Shane. Stolp@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
<i>[Signature]</i>		8/8/23	530	<i>Michelle Eungale</i>		8-8-23	1730
<i>Michelle Eungale</i>		8-9-23	1515	<i>[Signature]</i>		8-9-23	1700
<i>[Signature]</i>		8-9-23	2300	<i>Caitlin Marx</i>		8/10/23	7:00

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

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

Lab Use Only
 Received on ice: ☒ Y / ☐ N
 T1 _____ T2 _____ T3 _____
 AVG Temp °C 4

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Page 2 of 4Page 215 of 250

Envirotech Analytical Laboratory

Printed: 8/10/2023 10:52:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Kaiser Francis Oil Company	Date Received:	08/10/23 07:00	Work Order ID:	E308056
Phone:	575-725-1311	Date Logged In:	08/09/23 14:52	Logged In By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	08/10/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project NBL Pad #6 has been split into two work orders due to high sample volume amount. Work orders are E308056 and E308057.

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:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E308057

Job Number: 21022-0001

Received: 8/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/11/23

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.

Date Reported: 8/11/23

Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6
Workorder: E308057
Date Received: 8/10/2023 7:00:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/10/2023 7:00:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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

Raina Schwanz
Laboratory Administrator
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Technical Representative
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Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Pad #6 Project Number: 21022-0001 Project Manager: Georgeann Goodman	Reported: 08/11/23 14:17
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 38A	E308057-01A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 39A	E308057-02A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 42A	E308057-03A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 43A	E308057-04A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 44A	E308057-05A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 45A	E308057-06A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 46A	E308057-07A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 47A	E308057-08A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 48A	E308057-09A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 51A	E308057-10A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
52A	E308057-11A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 38A

E308057-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID	96.9 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.7 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane	84.8 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332071
Chloride	180	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 39A

E308057-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.5 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>						
	84.9 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332071
Chloride	90.2	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 42A

E308057-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.9 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	39.4	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>						
	88.3 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332071
Chloride	109	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 43A

E308057-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.0 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>						
	89.8 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332071
Chloride	154	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 44A

E308057-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.4 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>						
	87.6 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332071
Chloride	113	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 45A

E308057-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.9 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>						
	87.0 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332071
Chloride	115	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 46A

E308057-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2332063	
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.4 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2332063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2332062	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>	86.8 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2332071	
Chloride	170	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 47A

E308057-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2332063	
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.0 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2332063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2332062	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>	86.4 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2332071	
Chloride	188	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 48A

E308057-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2332063	
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.0 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2332063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.8 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2332062	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>	88.2 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2332071	
Chloride	272	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

Conf 51A

E308057-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.4 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>						
	87.4 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332071
Chloride	210	20.0	1	08/09/23	08/10/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
8/11/2023 2:17:05PM

52A

E308057-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2332063	
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.9 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2332063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2332062	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
<i>Surrogate: n-Nonane</i>	89.8 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2332071	
Chloride	112	20.0	1	08/09/23	08/10/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

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 (2332063-BLK1)

Prepared: 08/09/23 Analyzed: 08/10/23

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	7.67		8.00		95.9	70-130			

LCS (2332063-BS1)

Prepared: 08/09/23 Analyzed: 08/10/23

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.49	0.0250	5.00		89.8	70-130			
Toluene	4.65	0.0250	5.00		92.9	70-130			
o-Xylene	4.64	0.0250	5.00		92.8	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	14.0	0.0250	15.0		93.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

Matrix Spike (2332063-MS1)

Source: E308057-08

Prepared: 08/09/23 Analyzed: 08/10/23

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.9	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	5.07	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.8	70-130			

Matrix Spike Dup (2332063-MSD1)

Source: E308057-08

Prepared: 08/09/23 Analyzed: 08/10/23

Benzene	4.77	0.0250	5.00	ND	95.4	54-133	5.43	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.7	61-133	5.45	20	
Toluene	4.79	0.0250	5.00	ND	95.8	61-130	5.51	20	
o-Xylene	4.76	0.0250	5.00	ND	95.1	63-131	6.44	20	
p,m-Xylene	9.59	0.0500	10.0	ND	95.9	63-131	5.57	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	63-131	5.86	20	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.3	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

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 (2332063-BLK1) Prepared: 08/09/23 Analyzed: 08/10/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.61		8.00		82.6	70-130			

LCS (2332063-BS2) Prepared: 08/09/23 Analyzed: 08/10/23

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0		93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		8.00		85.9	70-130			

Matrix Spike (2332063-MS2) Source: E308057-08 Prepared: 08/09/23 Analyzed: 08/10/23

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.2	70-130			

Matrix Spike Dup (2332063-MSD2) Source: E308057-08 Prepared: 08/09/23 Analyzed: 08/10/23

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130	2.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.78		8.00		84.7	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

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 (2332062-BLK1)

Prepared: 08/09/23 Analyzed: 08/10/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	46.9		50.0		93.8	50-200			

LCS (2332062-BS1)

Prepared: 08/09/23 Analyzed: 08/10/23

Diesel Range Organics (C10-C28)	236	25.0	250		94.3	38-132			
Surrogate: <i>n</i> -Nonane	44.2		50.0		88.4	50-200			

Matrix Spike (2332062-MS1)

Source: E308057-02

Prepared: 08/09/23 Analyzed: 08/10/23

Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.1	38-132			
Surrogate: <i>n</i> -Nonane	42.2		50.0		84.4	50-200			

Matrix Spike Dup (2332062-MSD1)

Source: E308057-02

Prepared: 08/09/23 Analyzed: 08/10/23

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	38-132	1.42	20	
Surrogate: <i>n</i> -Nonane	43.1		50.0		86.2	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2332071-BLK1)					Prepared: 08/09/23 Analyzed: 08/10/23				
Chloride	ND	20.0							
LCS (2332071-BS1)					Prepared: 08/09/23 Analyzed: 08/10/23				
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2332071-MS1)					Source: E308057-01		Prepared: 08/09/23 Analyzed: 08/10/23		
Chloride	383	20.0	250	180	81.4	80-120			
Matrix Spike Dup (2332071-MSD1)					Source: E308057-01		Prepared: 08/09/23 Analyzed: 08/10/23		
Chloride	387	20.0	250	180	82.9	80-120	0.966	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:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	08/11/23 14:17

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

Client: <u>Kaiser Francis Oil Co</u>		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>NBL Pad #46</u>		Attention: <u>Wescom Inc</u>		Lab WO# <u>E308057</u>		Job Number <u>21022-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Juanjeann G</u>		Address: <u>1224 Standpipe</u>		Analysis and Method								RCRA	
Address: <u>→</u>		City, State, Zip <u>Carlsbad NM</u>											
City, State, Zip <u>→</u>		Phone:											
Phone: <u>5757251311</u>		Email:		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
Email: <u>Juanjeann.goodman@wescominc.com</u>				Chloride 300.0						BGDOC NM		BGDOC TX	
Report due by: <u>Wescom Inc. com</u>												State	
												NM CO UT AZ TX	

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
1154	8/7/23	S	1	CONF 38A	1							X		
1157	↓	↓	1	CONF 39A	2							X		
1202	↓	↓	1	CONF 42A	3							X		
1205	↓	↓	1	CONF 43A	4							X		
1208	↓	↓	1	CONF 44A	5							X		
1211	↓	↓	1	CONF 45A	6							X		
1213	↓	↓	1	CONF 46A	7							X		
1217	↓	↓	1	CONF 47A	8							X		
1220	↓	↓	1	CONF 48A	9							X		
1223	↓	↓	1	CONF 51A	10							X		

Additional Instructions:

Please see page one.

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.

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Michael Gungles</u>	8/8/23	530	<u>Michael Gungles</u>	8-8-23	1730	
<u>Michael Gungles</u>	8-9-23	1515	<u>Andrew Messer</u>	8-9-23	1700	
<u>Andrew Messer</u>	8-9-23	2300	<u>Carla Man</u>	8/10/23	7:00	

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

Project Information

Chain of Custody

Client: <u>Kaiser Francis Oil Co</u>		Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>NBL Pad #4</u>		Attention: <u>Wescom Inc</u>		Lab WO# <u>E 308057</u>		Job Number <u>21022-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Georgeann G</u>		Address: <u>1224 Standpipe</u>		E 308057		21022-0001		X					
Address: <u>→</u>		City, State, Zip <u>Carlsbad NM</u>		Analysis and Method								RCRA	
City, State, Zip <u>→</u>		Phone:		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
Phone: <u>5757251311</u>		Email:										Chloride 300.0	
Report due by:												BGDOC NM	
												BGDOC TX	
												State	
												NM CO UT AZ TX	
												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
1230	8/7/23	S	1	52A	11							X		

Additional Instructions:

Please See page one.

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>(Y)</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Michelle Gungler</u>	8/8/23	530	<u>Michelle Gungler</u>	8-8-23	1730	
<u>Michelle Gungler</u>	8-9-23	1515	<u>Allen MBSO</u>	8-9-23	1700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>Allen MBSO</u>	8-9-23	2300	<u>Carla MBSO</u>	8/10/23	7:00	

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

Envirotech Analytical Laboratory

Printed: 8/10/2023 9:12:47AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Kaiser Francis Oil Company	Date Received:	08/10/23 07:00	Work Order ID:	E308057
Phone:	575-725-1311	Date Logged In:	08/09/23 14:53	Logged In By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	08/10/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierSample 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 InstructionComments/Resolution

Project NBL Pad #6 has been split into two work orders due to high sample volume amount. Work orders are E308056 and E308057.

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

Date



envirotech Inc.

ATTACHMENT F

48-Hour Confirmation Notification Emails



Energizing America

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

North Bell Lake Pad #6 | Incident ID: nAPP2234143414

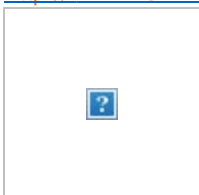
From: [Enviro, OCD, EMNRD](#)
To: [Georgeann Goodman](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6
Date: Thursday, July 13, 2023 10:07:45 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

Georgann,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Sent: Wednesday, July 12, 2023 3:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jerrod Inskeep <Jerrod.Inskeep@wescominc.com>
Subject: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

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

Hello All,

We intend to delineate for closure at Bell Lake Unit North- Pad 6 on Monday, July 17th at 7:00 a.m.

Please let us know if you'd like to oversee the sampling process.

Thank you,

Georgeann Goodman

Environmental Technician - Permian

O (575) 725-1311 | **C** (505) 205-0455

WescomInc.com | Georgeann.goodman@WescomInc.com

"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

From: [Wells, Shelly, EMNRD](#)
To: [Shar Harvester](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6
Date: Tuesday, July 25, 2023 11:18:01 AM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Hi Sharlene,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Shar Harvester <Shar.Harvester@WescomInc.com>
Sent: Tuesday, July 25, 2023 8:22 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Joey Croce <Joey.Croce@WescomInc.com>; Shane Stolp <shane.stolp@wescominc.com>; Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Subject: Re: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

Hello all,

We are extending the confirmation sampling period to Thursday and Friday of this week, July 27–28th.

Let me know if you have any questions.

Thanks,
Sharlene Harvester
218–355–8047

Wescom, Inc

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From: Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Sent: Wednesday, July 19, 2023 3:35 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Shar Harvester <Shar.Harvester@WescomInc.com>; Joey Croce <Joey.Croce@WescomInc.com>; Shane Stolp <shane.stolp@wescominc.com>
Subject: Re: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

To whom it may concern,
We plan to do conformation sampling at North Bell Lake Pad 6 Friday–Monday July 21st–July 24th.

If you have any questions or concerns, please let me know.

Thank you,
Georgeann Goodman

Sent from my Verizon, Samsung Galaxy smartphone
Get [Outlook for Android](#)

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, July 13, 2023 8:07:34 AM
To: Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

Georgann,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Sent: Wednesday, July 12, 2023 3:52 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Jerrod Inskeep <Jerrod.Inskeep@wescominc.com>

Subject: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

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

Hello All,

We intend to delineate for closure at Bell Lake Unit North- Pad 6 on Monday, July 17th at 7:00 a.m.

Please let us know if you'd like to oversee the sampling process.

Thank you,

Georgeann Goodman

Environmental Technician - Permian

O (575) 725-1311 | **C** (505) 205-0455

WescomInc.com | Georgeann.goodman@WescomInc.com

"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

Shar Harvester

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, August 2, 2023 10:14 AM
To: Shar Harvester
Subject: RE: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

Good morning Shar,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Shar Harvester <Shar.Harvester@WescomInc.com>
Sent: Tuesday, August 1, 2023 5:31 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Joey Croce <Joey.Croce@WescomInc.com>; Shane Stolp <shane.stolp@wescominc.com>; Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Subject: RE: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

Hello All,

We will be conducting confirmation sampling at the North Bell Lake Pad 6 (nAPP2234143414) on Friday, August 4 through Tuesday, August 8, 2023.

Thanks,

Shar Harvester, Environmental Operations President
O (218) 724-1322 | C (218) 355-8047
WescomInc.com | shar.harvester@WescomInc.com
"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

ATTACHMENT G

Extension Request



Energizing America

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

North Bell Lake Pad #6 | Incident ID: nAPP2234143414

From: [Hutton Andrew](#)
To: [Ashley Giovengo](#)
Cc: [Aaron Daniels](#)
Subject: Fwd: [EXTERNAL] Extension Request
Date: Wednesday, March 1, 2023 3:22:59 PM

Hutton Andrew
EHS Lead
Kaiser Francis Oil Company
C: 580.307.7363
O: 918.491.4615

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Wednesday, March 1, 2023 10:07:31 AM
To: Hutton Andrew <Huttona@kfoc.net>
Cc: Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request

Hello Andrew

OCD has approved your request for a 5 month extension to August 1, 2023, however this will be your final extension request. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Hutton Andrew <Huttona@kfoc.net>
Sent: Tuesday, February 28, 2023 2:00 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Aaron Daniels <aarond@kfoc.net>; Ashley Giovengo <ashley.giovengo@wescominc.com>
Subject: [EXTERNAL] Extension Request

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

Good morning, all,

This email serves as an extension request for the remediation of the release associated with the North Bell Lake Pad 6 (nAPP2234143414). I am requesting an extension from the original March 7, 2023, due date to August 1, 2023, in order to determine depth to water within a half-mile radius of the release. Drilling of the temporary water well has been scheduled for 06/21/2023 with Atkins Engineering.

Thank you for your time and consideration.

Hutton Andrew
EHS Lead
Kaiser Francis Oil Company
C: 580.307.7363
O: 918.491.4615

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 254001

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 254001
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	11/20/2023