



CLOSURE REQUEST

KAISER-FRANCIS OIL COMPANY

Created for submission to New Mexico Oil Conservation Division on 11/02/2022

ASHLEY GIOVENGO
Project Environmental Scientist

ENERGIZING AMERICA

November 02, 2022

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

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

RE: CLOSURE REQUEST

COMPANY	Kaiser-Francis Oil Company
LOCATION	North Bell Lake Unit 4 #15 SWD
API	30-025-24771
PLSS	Unit K Sec 08 T23S R34E
GPS	32.3173599, 103.4942551
INCIDENT ID	nAPP2211830910

BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Closure Request on behalf of Kaiser-Francis Oil Company, hereafter referred to as KFOC, regarding the release at the North Bell Lake Unit 4 #15 SWD (Site) located in Unit K, Section 08, Township 23 South and Range 34 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.3173599 and West -103.4942551. Surface owner of the Site is Limestone Basin Properties. The Site falls within New Mexico Oil Conservation Division (NMOCD), District 1 Hobbs.

On April 27, 2022, a two-inch brass valve associated with the gun barrel tank failed. This failure resulted in the release of approximately 74 barrels (bbls) of crude oil inside the lined secondary containment. KFOC immediately isolated the source of the leak and 74 bbls of crude oil was recovered.

Correspondence with NMOCD concerning depth to water (DTW) at the Site began on January 10, 2022. Chad Hensley of the NMOCD approved the use of water well, CP-1886-POD1 DTW for the Site. Water measurement well CP-1886-POD1 which is associated with incident number nAPP2107043534 (see Attachment F), has a DTW of greater than 110 feet below ground surface (bgs) and is located 0.68 miles West of the Site.

On May 04, 2022, Wescom personnel inspected the lined secondary containment and found eight potential release points within the containment liner. Wescom personnel returned to the site on May 26, 2022, to



sample the soils beneath the containment liner and determine if those soils would require remediation. The liner was cut to allow sampling and immediately repaired by Wescom personnel. On June 16, 2022, Wescom contracted WSP to perform additional vertical delineation sampling with a gas-powered hand auger. Wescom personnel returned to the Site on August 24, and September 15, 2022, to perform additional delineation sampling activities.

On October 04, 2022, KFOC personnel received email notification that the closure request had been denied for the following reasons:

“Closure Report Denied. Release has not been sufficiently delineated. While bottoms have been determined, OCD needs to know what concentrations are present in soil at locations CONF06 and CONF07 at 1', 2', 4', 6', etc, especially with a compromised liner. In addition, where was CONF11B located and soil from that location needs to be addressed as it exceeded criteria for TPH GRO+DRO (>1,000 mg/kg). Please also include photos of the repaired liner. Please resubmit a revised Closure Report to the OCD portal by November 04, 2022.”

Wescom personnel returned to the Site on October 18, 2022, to collect samples every foot including surface in sample locations CONF06 and CONF07. Wescom personnel used a skidsteer to complete a surface scrape of CONF11B area and contaminated soil was hauled to an approved disposal facility.

SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is greater than 110 feet below ground surface (bgs) and is 0.68 miles West of the Site. No playas or lakes are located within a one-mile radius of this Site (Attachment C). This depth to water determination has been approved by NMOCD as per email from Chad Hensley, NMOCD to Aaron Daniels, KFOC on February 07, 2022 (Attachment F).

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.

TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. The applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX) and 2500 ppm Total Petroleum Hydrocarbons (TPH) and 1000 ppm combined Gasoline Range Organics (GRO) and Diesel Range Organics (DRO). Characterization of the vertical and horizontal extent of chloride concentration in the soil to a level of 20000 mg/kg (ppm) is also required.



Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
North Bell Lake Unit 4 #15 SWD — 32.3173599, -103.4942551						
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
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	>110	20000	2500	1000	50	10
Surface Water		If yes, then				
< 300 feet from continuously flowing watercourse or other significant watercourse?	No					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Wescom personnel conducted a liner inspection on May 04, 2022, eight potential release points were identified. Four pinholes were found four feet North of the gun barrel load line and a two-inch hole was found one foot south of the first oil tank. One pinhole was found 14 feet Southwest of the East water tank, three pinholes and one one-inch hole was found 11 feet South of the same water tank. Three additional pinholes were found at 14 feet south of the Eastern most water tank. One pinhole was found two and a half feet Southwest of the Easternmost water tank and a four-inch hole was found along the center of the North containment wall (see Attachment B). The results of the inspection determined that delineation activities would be required.

On May 26, 2022, KFOC contracted Wescom to conduct on-site delineation activities and to determine the horizontal and vertical extent of the spill area. Wescom was able to complete vertical delineation sampling to the strictest criteria in sample locations CONF01 through CONF05 with a 10-foot hand auger. On June 16, 2022, Wescom contracted WSP to continue vertical delineation sampling beneath the containment liner with a gas-powered hand auger and diamond plated drill bit. Vertical delineation was achieved in sample location CONF07 however, WSP personnel hit refusal at 14 feet bgs in confirmation sample location CONF06. Wescom personnel returned to the Site on August 24, 2022, to continue vertical delineation sampling in the area surrounding sample location CONF06. Three additional boreholes were hand augured less than one-foot

West of sample location CONF06 and Wescom personnel hit refusal in all three holes at 11 feet bgs. Vertical delineation to the strictest criteria was achieved in six out of the seven confirmation sample locations. Horizontal delineation sampling was completed on May 26, August 24, and September 15, 2022. Samples on the North, South, East and West side of the containment were below the on-site RRALs (see Figure 1 and Table 1). A background sample, BG01, was collected 50 feet to the south of the caliche pad, as shown in Figure 1.

Vertical delineation sampling as well as confirmation sampling was completed inside the containment on May 26, 2022, and on Jun 16, 2022. Confirmation sample CONF01 was collected from the four pinholes four feet North of the gun barrel load line and sample CONF02 was collected from the two-inch hole one-foot South of the first oil tank (serial #F60337). Samples CONF03 through CONF05 were collected from the pinholes and one inch hole found at 11 feet and 14 feet South of produced water tank (serial #5029-09). Sample CONF06 was collected from the pinhole located 2.5 feet Southwest of produced water tank (serial #5029-09) and sample CONF07 was collected from the four-inch hole along the North side of the containment wall. Confirmation samples CONF08 through CONF11F were collected from the areas surrounding all four side of the tank containment.

On October 18, 2022, Wescom personnel returned to the Site to collect samples from every foot, including surface in sample locations CONF06 and CONF07. Wescom personnel cut a hole in the containment liner to complete the sampling activities and patched the liner holes as shown in Attachment B. A surface scrape of CONF11B was completed using a skidsteer and contaminated soil was hauled to an approved disposal facility.

A total of 34 confirmation samples were jarred and sent to Envirotech, Inc, for laboratory analysis and all samples were below the applicable RRALs for the Site. Confirmation sample locations are presented in Figure 1; laboratory analysis results are presented in Table 1 and laboratory analytical reports are included in Attachment E. All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0.

The required 48-hour confirmation sampling notifications were sent on May 23, 2022, August 22, 2022, and on October 12, 2022, to Chad Hensley, Bradford Billings, Mike Bratcher, Robert Hamlet, Jennifer Nobui, and Nelson Velez, with the NMOCD in Santa Fe, New Mexico and are included in Attachment G.

REQUEST FOR CLOSURE

On behalf of KFOC, Wescom hereby requests closure for the release associate with incident number nAPP2211830910 based on the logic below.

- Depth to water at the Site is greater than 110 feet bgs, as per Attachment F.
- The release has been horizontally and vertically delineated.
- Samples have been collected at every foot, including surface in sample locations CONF06 and CONF07.



- All confirmation samples are below the applicable RRALs for the Site.
- Liner gaps have been repaired by Wescom Inc. The liner will act as a barrier for potential releases inside the secondary containment. Photos of the liner repairs are included in Attachment B.
- A surface scrape of CONF11B has been completed and the results are below the applicable RRALs for the Site as shown in Table 1 and Figure 1. Contaminated soil from the area was hauled to an approved disposal facility.

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

Sincerely,

Wescom, Inc.

Ashley Giovengo

Project Environmental Scientist

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



REFERENCE MATERIALS

FIGURES

FIGURE 1. Confirmation Sampling

TABLES

TABLE 1. Laboratory Analysis Results: Confirmation Samples

ATTACHMENTS

ATTACHMENT A. C-141

ATTACHMENT B. Site Photos

ATTACHMENT C. Closure Criteria Supporting Documents

ATTACHMENT D. Karst Map

ATTACHMENT E. Envirotech Inc. Laboratory Analysis Reports

ATTACHMENT F. Depth to Water Determination Email

ATTACHMENT G. 48-hour Confirmation Sampling Notification Emails

ATTACHMENT H. Extension Request Email



FIGURES





FIGURE 1. CONFIRMATION SAMPLING



North Bell Lake Unit 4 #15 SWD
 Incident ID: nAPP2211830910
 API: 30-015-43603
 GPS Coordinates: 32.3173599, -103.4942551
 Lea County, New Mexico
 Kaiser-Francis Oil Company

LEGEND

● Confirmation Sample Locations



TABLES



NBL Unit 4 #15 SWD nAPP2211830910						
Kaiser-Francis Oil Company 11.01.2022						
Table 1. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	2500	20000
BG01	1	6/16/2022	ND	ND	ND	ND
CONF01	2	5/26/2022	ND	ND	ND	96.1
CONF02	2	5/26/2022	ND	ND	ND	227
CONF03	2	5/26/2022	ND	ND	ND	61.6
CONF04	2	5/26/2022	ND	ND	ND	277
CONF05	0	5/26/2022	ND	ND	ND	45.5
CONF06	0	10/18/2022	ND	ND	ND	144
CONF06	1	10/18/2022	ND	ND	413	481
CONF06	2	10/18/2022	ND	ND	29.5	7490
CONF06	3	10/18/2022	ND	ND	ND	1820
CONF06	4	10/18/2022	ND	ND	ND	1720
CONF06	5	10/18/2022	ND	ND	ND	2560
CONF06	6	10/18/2022	ND	ND	ND	2690
CONF06	7	10/18/2022	ND	ND	ND	1290
CONF06	8	10/18/2022	ND	ND	ND	8930
CONF06	9	10/18/2022	ND	ND	ND	3130
CONF06	10	5/26/2022	ND	ND	ND	5460
CONF06	11	10/18/2022	ND	ND	ND	2300
CONF07	0	10/18/2022	ND	ND	110	853
CONF07	1	10/18/2022	ND	ND	37.7	662
CONF07	2	10/18/2022	ND	ND	221.5	1250
CONF07	3	10/18/2022	ND	ND	ND	885
CONF07	4	10/18/2022	ND	ND	ND	1030
CONF07	5	10/18/2022	ND	ND	ND	914
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						



NBL Unit 4 #15 SWD nAPP2211830910						
Kaiser-Francis Oil Company 11.01.2022						
Table 1. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	2500	20000
CONF07	6	10/18/2022	ND	ND	ND	1050
CONF07	7	10/18/2022	ND	ND	ND	1150
CONF07	8	10/18/2022	ND	ND	ND	1240
CONF07	9	10/18/2022	ND	ND	ND	2340
CONF07	10	5/26/2022	ND	ND	ND	1110
CONF07	12	6/16/2022	ND	ND	ND	84.9
CONF08C	0	5/26/2022	ND	ND	ND	2420
CONF08E	0	6/16/2022	ND	ND	ND	59.5
CONF09B	0	5/26/2022	ND	ND	ND	162
CONF10	0	5/26/2022	ND	ND	ND	284
CONF11B	0	5/26/2022	ND	ND	2458	87.1
CONF11B	0	10/18/2022	ND	ND	ND	ND
CONF11F	0	9/15/2022	ND	ND	ND	22.6
ABBREVIATIONS						
BTEX — Benzene, Toluene, Ethylene, Xylene			GRO — Gasoline Range Organics			
DRO — Diesel Range Organics			ND — Non-detect			
ft. — Feet			mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons						
Notes						
Bold Red - Results are above closure criteria						
Gray Highlight - Background Samples						



ATTACHMENT A

Signed C-141



Energizing America

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

North Bell Lake Unit 4 #15 SWD | Incident ID: nAPP2211830910

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	nAPP2211830910
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Kaiser-Francis Oil Company	OGRID 12361
Contact Name: Aaron Daniels	Contact Telephone: 918-491-4352
Contact email: aarond@kfoc.net	Incident # (assigned by OCD) nAPP2211830910
Contact mailing address: 6733 S. Yale, Tulsa, OK 74136	

Location of Release Source

Latitude 32.3173599 Longitude -103.4942551
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Bell Lake Unit 4 #15 SWD	Site Type: Well Pad
Date Release Discovered: 04/27/2022	API# (if applicable) 30-025-24771

Unit Letter	Section	Township	Range	County
K	08	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) 74	Volume Recovered (bbls) 74
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input 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

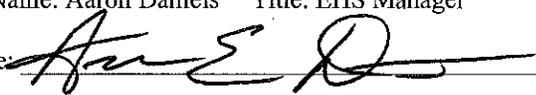
2" brass valve associated with the gun barrel tank failed, resulting in ~74 bbls of oil being released into containment.

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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? Release greater than 25 bbls.
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 4/28/22.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Aaron Daniels Title: EHS Manager Signature:  Date: 5/12/2022 email: aarond@kfoc.net Telephone: 918-491-4352
OCD Only Received by: _____ Date: _____

Incident ID	nAPP2211830910
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?	>110 _____ (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.

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State of New Mexico
Oil Conservation Division

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

Printed Name: Hutton Andrew

Title: EHS Representative

Signature: 

Date: 09/23/2022

email: huttona@kfoc.net

Telephone: 918-491-4615

OCD Only

Received by: Jocelyn Harimon

Date: 11/04/2022

Form C-141

State of New Mexico
Oil Conservation Division

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Application ID	

Closure

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

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

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

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

Printed Name: Hutton Andrew

Title: EHS Representative

Signature: 

Date: 09/23/2022

email: huttona@kfoc.net

Telephone: 918-491-4615

OCD Only

Received by: Jocelyn Harimon

Date: 11/04/2022

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

Closure Approved by: 

Date: 11/30/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

ATTACHMENT B

Site Photos



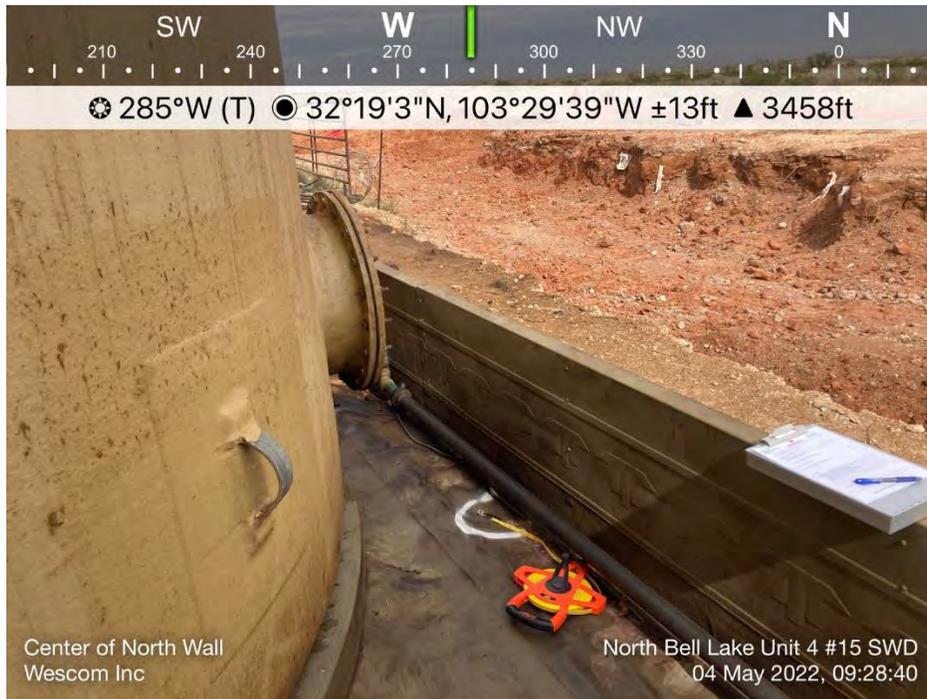
Energizing America

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

North Bell Lake Unit 4 #15 SWD | Incident ID: nAPP2211830910

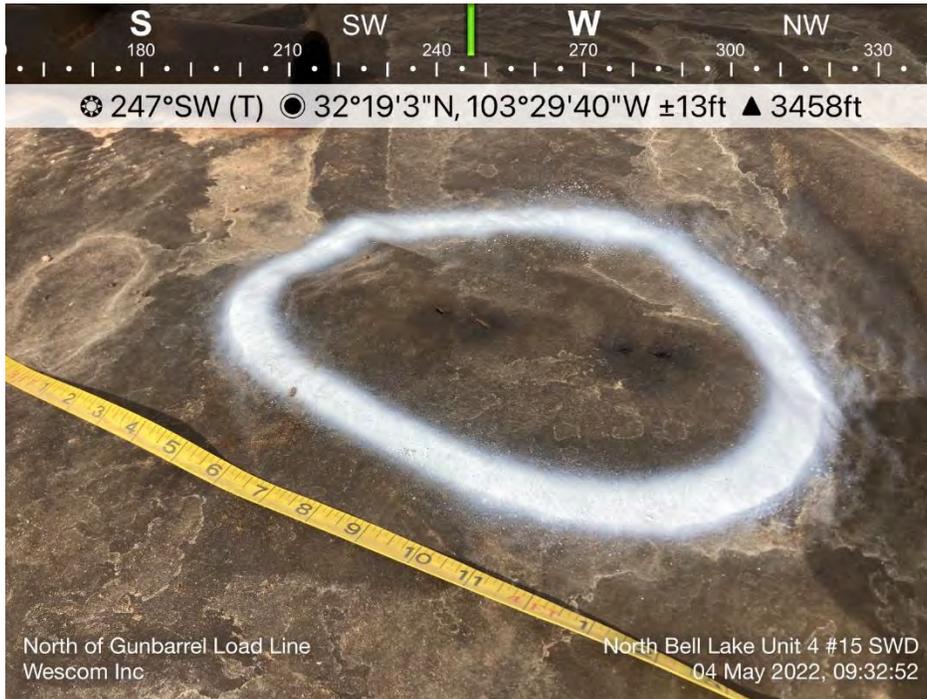


South of East Tank (CONF03-CONF05 and CONF06)



Center of North Wall (CONF07)



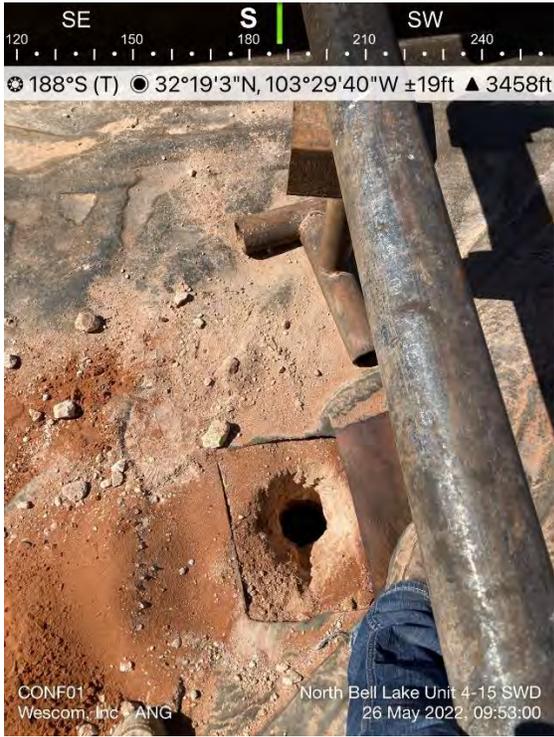


North of gun barrel Load Line (CONF01)



South of Oil Tank (CONF02)





CONF01



CONF01 - Patched



CONF02



CONF02 - Patched





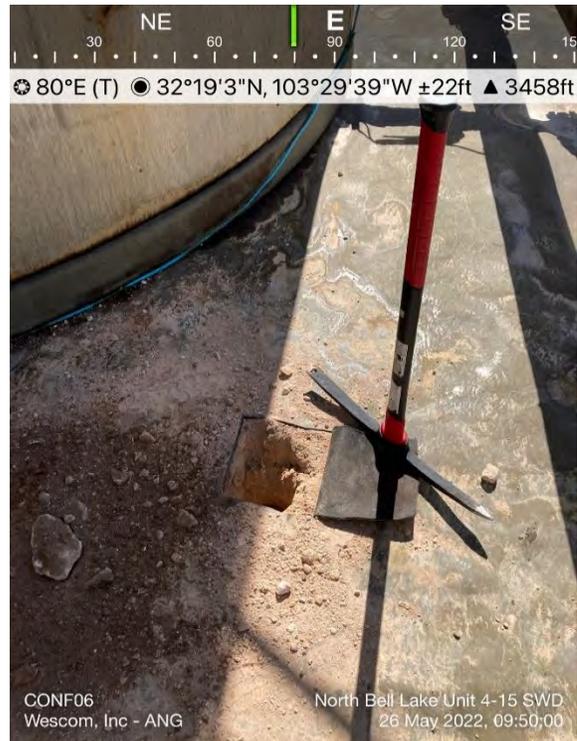
CONF03



CONF04

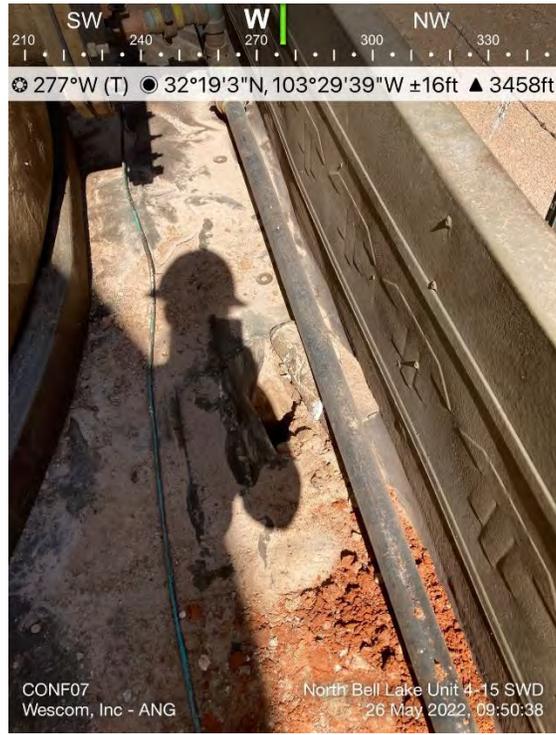


CONF05



CONF06





CONF07



CONF03-CONF05 Patched





CONF07 - Patched



16 June 2022 Vertical Delineation (CONF06)

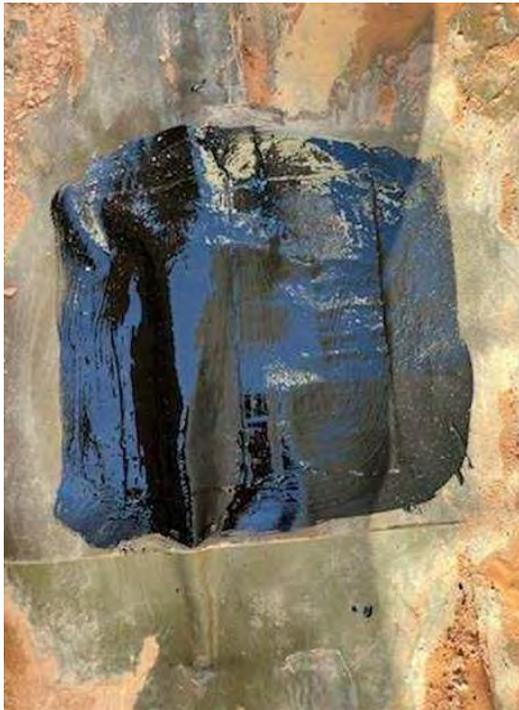




CONF06 - Patched



16 June 2022 Vertical Delineation (CONF07)



CONF07 - Patched



24 August 2022 Vertical Delineation (CONF06)





CONF06 - Patched

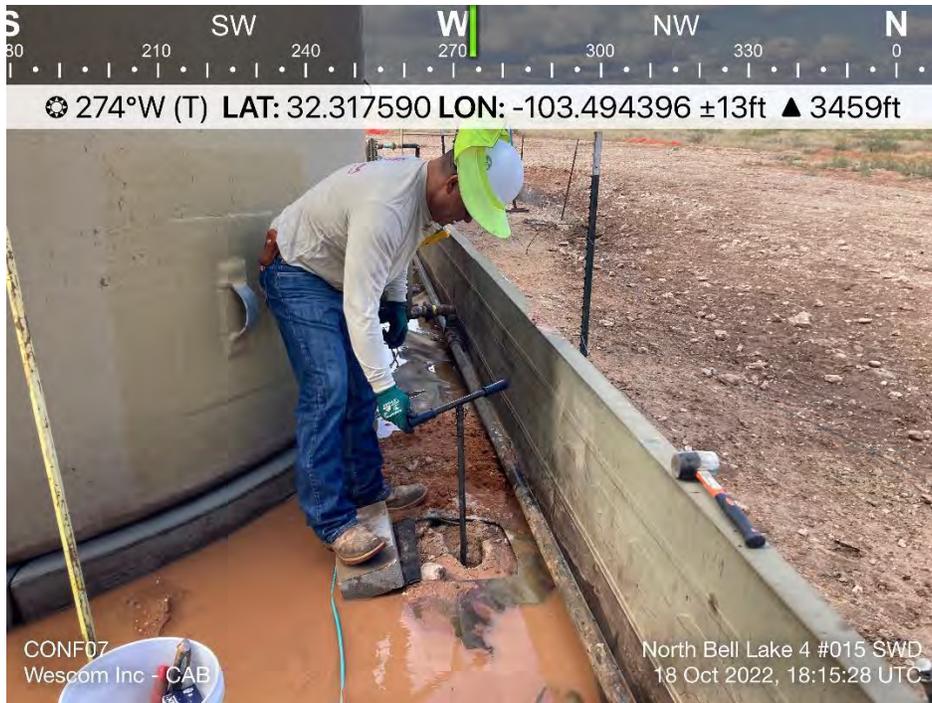


15 September 2022 Sampled Area (CONF11F)





18 October 2022 Confirmation Sampling (CONF06)



18 October 2022 Confirmation Sampling (CONF07)



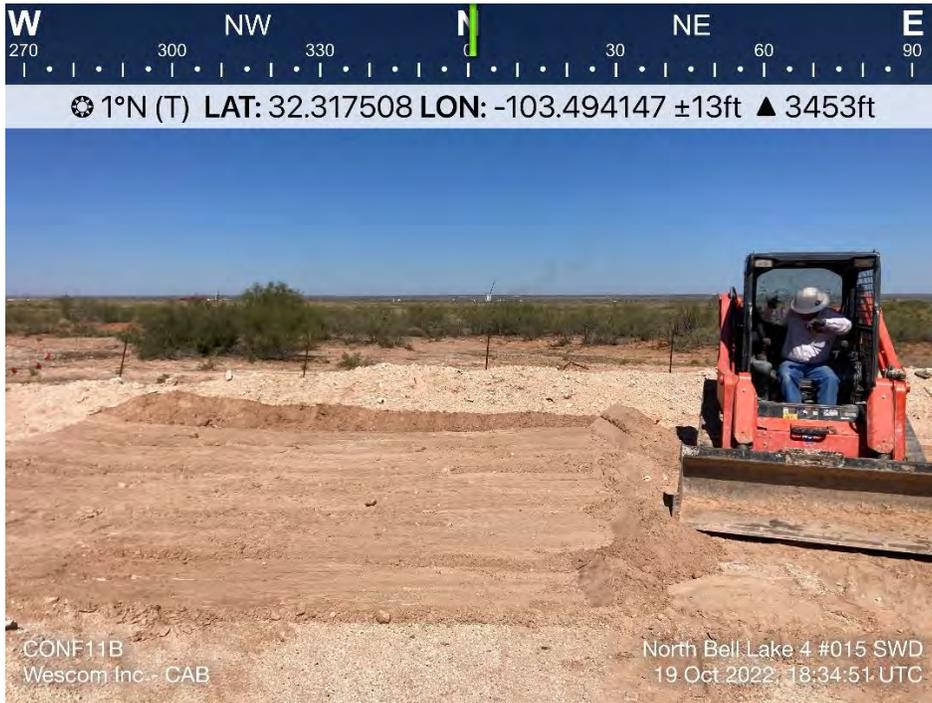


Liner Repaired (CONF06)



Liner Repaired (CONF07)





Scrapped Area (CONF11B)



Hauled Contaminated Soil



ATTACHMENT C

Closure Criteria Supporting Documents



Energizing America

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

North Bell Lake Unit 4 #15 SWD | Incident ID: nAPP2211830910



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

John R. D'Antonio Jr., P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

July 29, 2021

Kaiser Francis Oil Company
6733 S. Yale Avenue
Tulsa, OK 74136

RE: Well Plugging Plan of Operations for **CP-1886-POD1**

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced project. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer.

Plugging operations shall also be conducted in accordance with NMED, NMOCD, or other State or Federal agencies having oversight for the above described project.

Maximum 5.2 gallons water per 94 lb. sack Portland Cement PLUS 0.6 gallon per 1% increase in bentonite up to maximum 6% bentonite by dry weight ratio. Bentonite must be hydrated separately and then mixed.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Handwritten signature of Kashyap Parekh in black ink.

Kashyap Parekh
Water Resources Professional III



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ If within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email ambg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: CP-1886 (POD-1)

Name of well owner: Kaiser-Francis Oil Company

Mailing address: 6733 S. Yale Ave County: _____

City: Tulsa State: OK Zip code: 74136

Phone number: 918-491-4350 E-mail: DavidZ@KFOC.net

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Jackie D. Atkins (Atkins Engineering Associates)

New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/2023

IV. WELL INFORMATION: Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: see WD-08m deg, _____ min, _____ sec
Longitude: _____ deg, _____ min, _____ sec, NAD 83

2) Reason(s) for plugging well(s):

Soil boring to determine groundwater level OSE DJT JUL 26 2021 PM 3:10

3) Was well used for any type of monitoring program? NO If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? N/A If yes, provide additional detail, including analytical results and/or laboratory report(s): _____

5) Static water level: Unknown feet below land surface / feet above land surface (circle one)

6) Depth of the well: ~110 feet

- 7) Inside diameter of innermost casing: 2" inches.
- 8) Casing material: Temporary PVC SCH 40
- 9) The well was constructed with:
 - an open-hole production interval, state the open interval: _____
 - a well screen or perforated pipe, state the screened interval(s): _____
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
- 11) Was the well built with surface casing? NO If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

The temporary 2" well material will be removed. Tremied from bottom to land Neat Cement in lifts

- 2) Will well head be cut-off below land surface after plugging? N/A

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 189
- 4) Type of Cement proposed: Type I/II Neat Cement
- 5) Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
 mixed on site

OSE DTI JUL 28 2021 PM 3:10

7) Grout additives requested, and percent by dry weight relative to cement:

N/A

8) Additional notes and calculations:

N/A

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

Cotton Draw 14 Fed Com 1H. The temporary well material will be removed. If no water is encountered then drill cuttings will be used to (10) ten feet of land surface and plugged using hydrated bentonite. If ground water is encountered the boring will be plugged tremie from bottom to a slurry of Portland TYPE I/II Neat cement in lifts. A 6.5" borehole will be plugged.

VIII. SIGNATURE:

I, David Zerger, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

[Signature]
Signature of Applicant

7-8-21
Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

OSE DJJ JUL 26 2021 08:10

- Approved subject to the attached conditions.
- Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 29th day of JULY, 2021



John R. D'Antonio Jr., P.E., New Mexico State Engineer

By: K. Parekh
KASHYAP PAREKH
W.R.P. III

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	N/A
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	110
Theoretical volume of grout required per interval (gallons)	N/A	N/A	189
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch-mixed and delivered?	N/A	N/A	On-Site
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

OSE DTI JUL 26 2021 PM 3:10

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	17
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Bariod Hole Plug

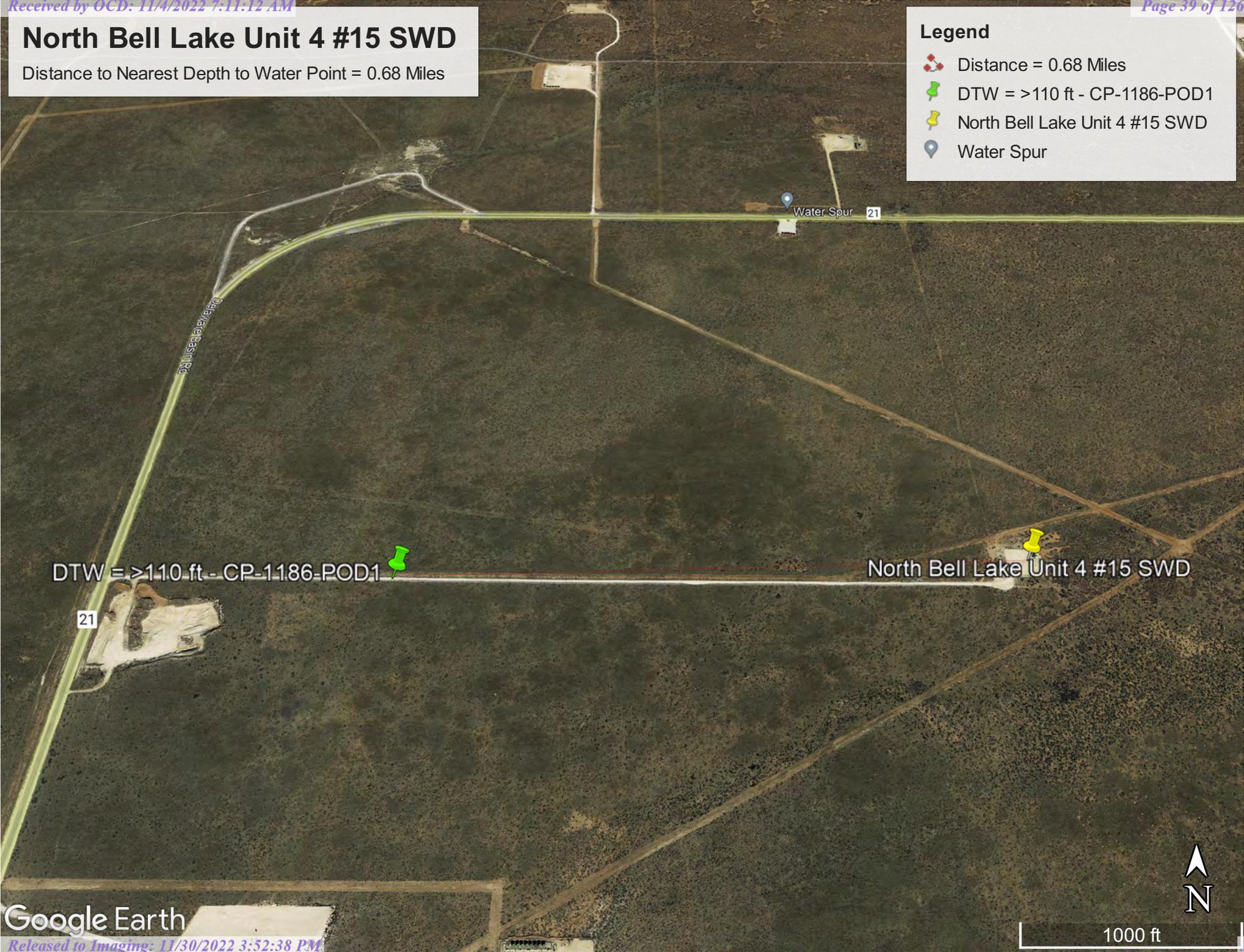
OSE DII JUL 26 2021 PM3:11

North Bell Lake Unit 4 #15 SWD

Distance to Nearest Depth to Water Point = 0.68 Miles

Legend

-  Distance = 0.68 Miles
-  DTW = >110 ft - CP-1186-POD1
-  North Bell Lake Unit 4 #15 SWD
-  Water Spur



DTW = >110 ft - CP-1186-POD1

North Bell Lake Unit 4 #15 SWD

Water Spur 21

21





4-15 SWD Line - Riverine 4,111.2 ft.



June 18, 2021

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Lake
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland
- Other
- Freshwater Pond
- 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.



4-15 SWD Line - FW Pond 10,365.5 ft.



June 18, 2021

Wetlands

- Estuarine and Marine Deepwater
- 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.



4-15 SWD Line - Wetland 4,561.6 ft.



June 18, 2021

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

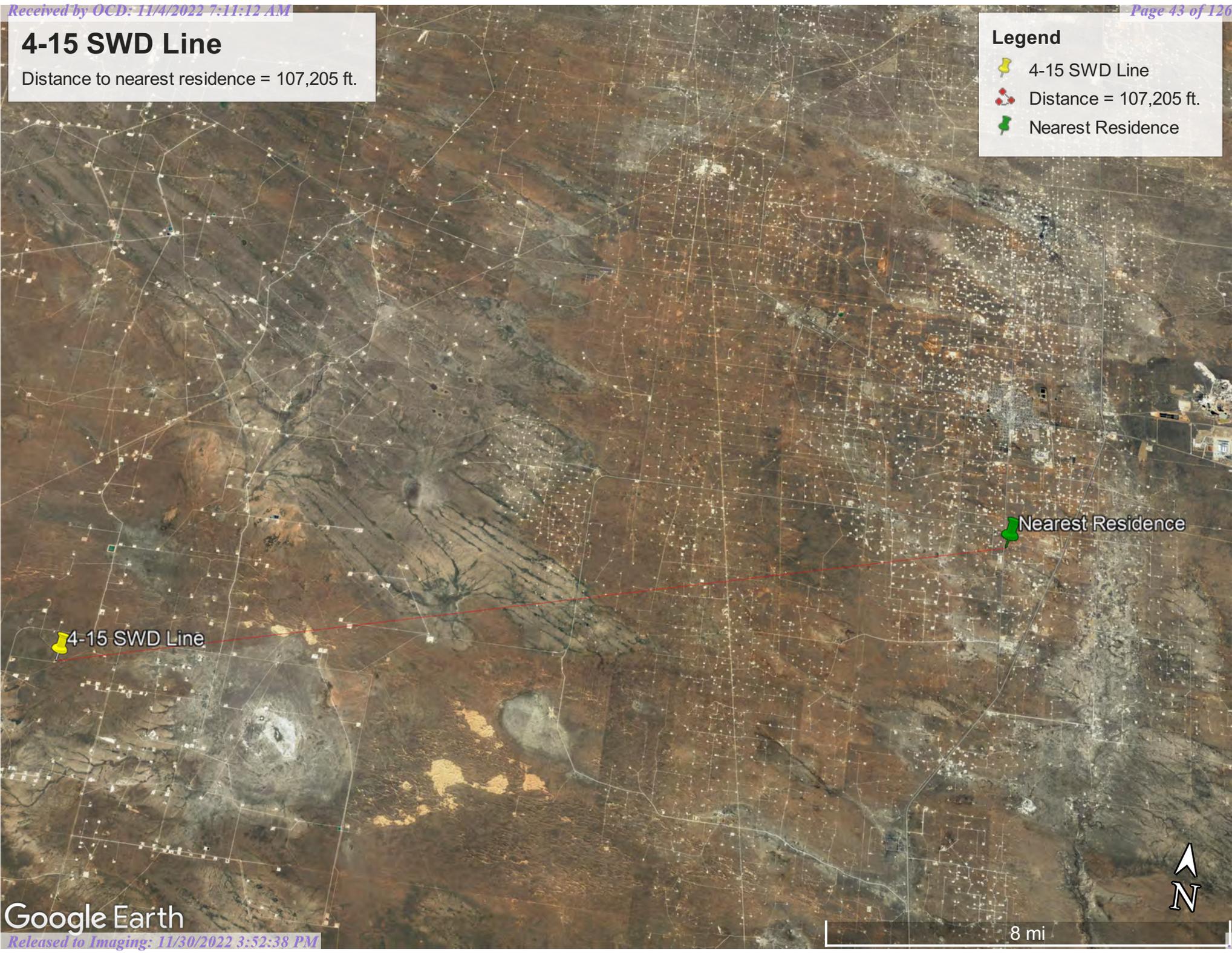
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

4-15 SWD Line

Distance to nearest residence = 107,205 ft.

Legend

-  4-15 SWD Line
-  Distance = 107,205 ft.
-  Nearest Residence



4-15 SWD Line

Nearest Residence



National Flood Hazard Layer FIRMMette



103°29'59"W 32°19'18"N



Legend

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

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
 - OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D
 - OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
 - OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

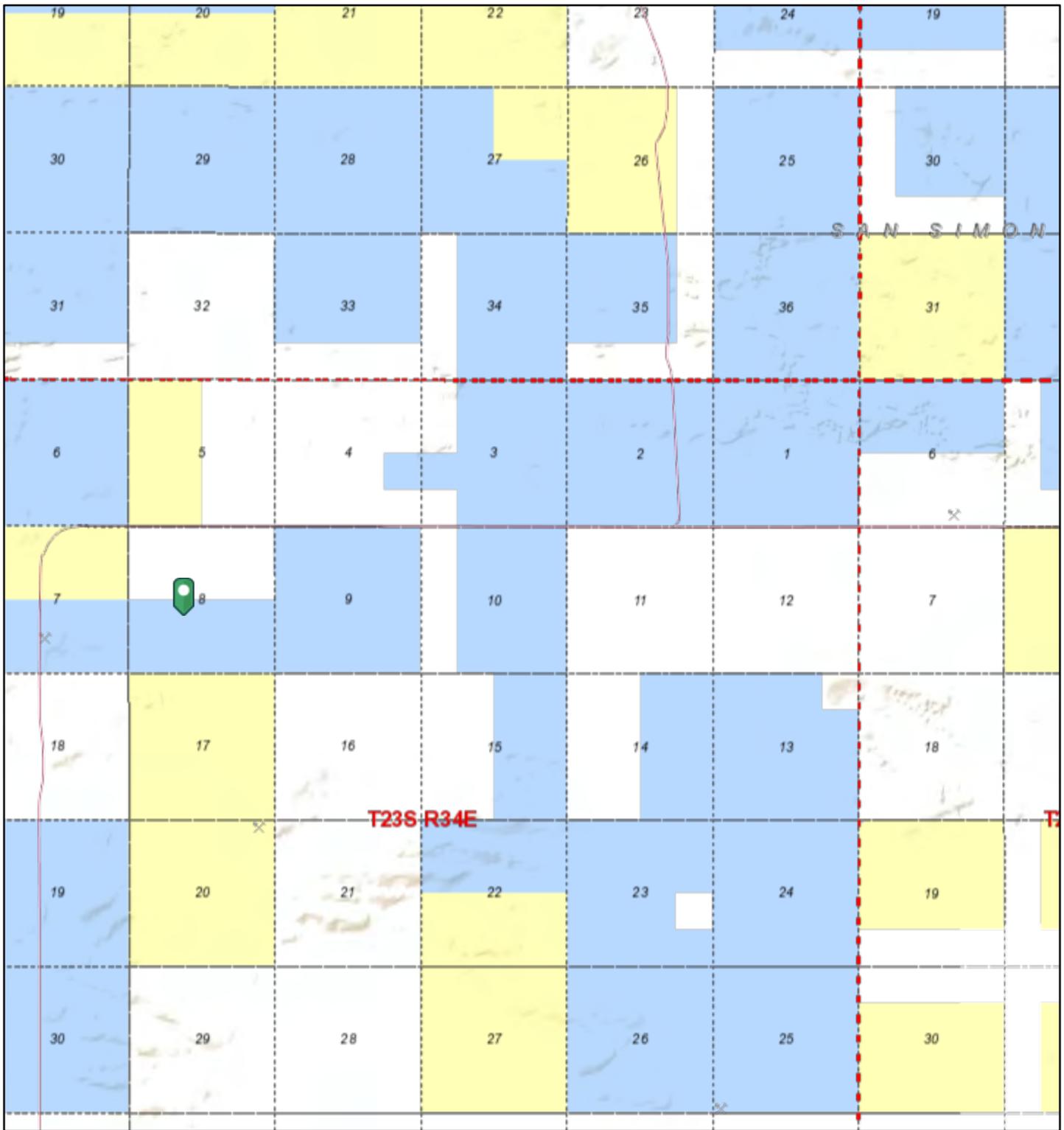
0 250 500 1,000 1,500 2,000 Feet 1:6,000 103°29'22"W 32°18'48"N

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 6/18/2021 at 12:52 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

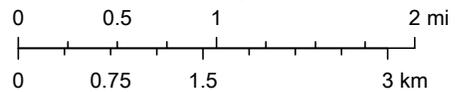
Active Mines Near 4-15 SWD Line



6/18/2021, 10:46:15 AM

1:72,224

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



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

ATTACHMENT D

Karst Map



Energizing America

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

North Bell Lake Unit 4 #15 SWD | Incident ID: nAPP2211830910

North Bell Lake Unit 4 #15 SWD

Karst Potential = Low

Legend

-  01 Low
-  02 Medium
-  03 High
-  North Bell Lake Unit 4 #15 SWD
-  Water Spur

Water Spur 21

North Bell Lake Unit 4 #15 SWD



ATTACHMENT E

Envirotech Inc. Laboratory Analysis Reports



Energizing America

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

North Bell Lake Unit 4 #15 SWD | Incident ID: nAPP2211830910

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: North Bell Lake Unit 4 #15 SWD

Work Order: E205158

Job Number: 21022-0001

Received: 5/31/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/6/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/6/22



Ashley Giovengo
1224 Standpipe Rd
Carlsbad, NM 88220

Project Name: North Bell Lake Unit 4 #15 SWD
Workorder: E205158
Date Received: 5/31/2022 8:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/31/2022 8:45:00AM, under the Project Name: North Bell Lake Unit 4 #15 SWD.

The analytical test results summarized in this report with the Project Name: North Bell Lake Unit 4 #15 SWD 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:

Southern New Mexico Area
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: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 06/06/22 15:08
---	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 2'	E205158-01A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF02 - 2'	E205158-02A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF03 - 2'	E205158-03A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF04 - 2'	E205158-04A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF05 - 0'	E205158-05A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF06 - 10'	E205158-06A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF07 - 10'	E205158-07A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF08C - 0'	E205158-08A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF09B - 0'	E205158-09A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF10 - 0'	E205158-10A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.
CONF11B - 0'	E205158-11A	Soil	05/26/22	05/31/22	Glass Jar, 4 oz.



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
---	--	--

CONF01 - 2'

E205158-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/03/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/03/22	
Toluene	ND	0.0250	1	06/03/22	06/03/22	
o-Xylene	ND	0.0250	1	06/03/22	06/03/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/03/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.0 %	70-130		06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
<i>Surrogate: n-Nonane</i>						
	80.4 %	50-200		06/03/22	06/03/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	96.1	20.0	1	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
---	--	--

CONF02 - 2'

E205158-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/03/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/03/22	
Toluene	ND	0.0250	1	06/03/22	06/03/22	
o-Xylene	ND	0.0250	1	06/03/22	06/03/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/03/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.3 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.1 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	06/03/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	227	20.0	1	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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CONF03 - 2'

E205158-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/03/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/03/22	
Toluene	ND	0.0250	1	06/03/22	06/03/22	
o-Xylene	ND	0.0250	1	06/03/22	06/03/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/03/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.9 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.0 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	06/03/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	61.6	20.0	1	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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CONF04 - 2'

E205158-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/03/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/03/22	
Toluene	ND	0.0250	1	06/03/22	06/03/22	
o-Xylene	ND	0.0250	1	06/03/22	06/03/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/03/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.2 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.4 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	06/03/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	277	20.0	1	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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CONF05 - 0'

E205158-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/03/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/03/22	
Toluene	ND	0.0250	1	06/03/22	06/03/22	
o-Xylene	ND	0.0250	1	06/03/22	06/03/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/03/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.3 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.6 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
<i>Surrogate: n-Nonane</i>		107 %	50-200	06/03/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	45.5	20.0	1	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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CONF06 - 10'

E205158-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/03/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/03/22	
Toluene	ND	0.0250	1	06/03/22	06/03/22	
o-Xylene	ND	0.0250	1	06/03/22	06/03/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/03/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.1 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.3 %	70-130	06/03/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	06/03/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	5460	200	10	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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CONF07 - 10'

E205158-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/04/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/04/22	
Toluene	ND	0.0250	1	06/03/22	06/04/22	
o-Xylene	ND	0.0250	1	06/03/22	06/04/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/04/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.2 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.5 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	47.3	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
<i>Surrogate: n-Nonane</i>		97.5 %	50-200	06/03/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	1110	20.0	1	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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CONF08C - 0'

E205158-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/04/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/04/22	
Toluene	ND	0.0250	1	06/03/22	06/04/22	
o-Xylene	ND	0.0250	1	06/03/22	06/04/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/04/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.8 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.6 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	06/03/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	2420	40.0	2	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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CONF09B - 0'

E205158-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/04/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/04/22	
Toluene	ND	0.0250	1	06/03/22	06/04/22	
o-Xylene	ND	0.0250	1	06/03/22	06/04/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/04/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.8 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.2 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/03/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	06/03/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	162	20.0	1	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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CONF10 - 0'

E205158-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/04/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/04/22	
Toluene	ND	0.0250	1	06/03/22	06/04/22	
o-Xylene	ND	0.0250	1	06/03/22	06/04/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/04/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.3 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.4 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/22	06/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/22	06/04/22	
<i>Surrogate: n-Nonane</i>		113 %	50-200	06/03/22	06/04/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	284	20.0	1	06/03/22	06/05/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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CONF11B - 0'

E205158-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Benzene	ND	0.0250	1	06/03/22	06/04/22	
Ethylbenzene	ND	0.0250	1	06/03/22	06/04/22	
Toluene	ND	0.0250	1	06/03/22	06/04/22	
o-Xylene	ND	0.0250	1	06/03/22	06/04/22	
p,m-Xylene	ND	0.0500	1	06/03/22	06/04/22	
Total Xylenes	ND	0.0250	1	06/03/22	06/04/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.4 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2223049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/22	06/04/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.6 %	70-130	06/03/22	06/04/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2223056
Diesel Range Organics (C10-C28)	1540	25.0	1	06/03/22	06/04/22	
Oil Range Organics (C28-C36)	918	50.0	1	06/03/22	06/04/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	06/03/22	06/04/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2223048
Chloride	87.1	20.0	1	06/03/22	06/05/22	



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2223049-BLK1)

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

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.08		8.00		88.5	70-130			

LCS (2223049-BS1)

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

Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	5.42	0.0250	5.00		108	70-130			
Toluene	5.63	0.0250	5.00		113	70-130			
o-Xylene	5.35	0.0250	5.00		107	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
Total Xylenes	16.4	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.7	70-130			

Matrix Spike (2223049-MS1)

Source: E205158-01

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

Benzene	5.54	0.0250	5.00	ND	111	54-133			
Ethylbenzene	5.49	0.0250	5.00	ND	110	61-133			
Toluene	5.84	0.0250	5.00	ND	117	61-130			
o-Xylene	5.37	0.0250	5.00	ND	107	63-131			
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131			
Total Xylenes	16.5	0.0250	15.0	ND	110	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.02		8.00		87.7	70-130			

Matrix Spike Dup (2223049-MSD1)

Source: E205158-01

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

Benzene	5.64	0.0250	5.00	ND	113	54-133	1.82	20	
Ethylbenzene	5.60	0.0250	5.00	ND	112	61-133	2.12	20	
Toluene	5.93	0.0250	5.00	ND	119	61-130	1.50	20	
o-Xylene	5.49	0.0250	5.00	ND	110	63-131	2.37	20	
p,m-Xylene	11.4	0.0500	10.0	ND	114	63-131	2.00	20	
Total Xylenes	16.8	0.0250	15.0	ND	112	63-131	2.12	20	
Surrogate: 4-Bromochlorobenzene-PID	6.97		8.00		87.1	70-130			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2223049-BLK1)

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

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

LCS (2223049-BS2)

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

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

Matrix Spike (2223049-MS2)

Source: E205158-01

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

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.2	70-130			

Matrix Spike Dup (2223049-MSD2)

Source: E205158-01

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

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130	2.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2223056-BLK1)

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

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 (2223056-BS1)

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

Diesel Range Organics (C10-C28)	498	25.0	500		99.7	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike (2223056-MS1)

Source: E205158-01

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

Diesel Range Organics (C10-C28)	503	25.0	500	ND	101	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

Matrix Spike Dup (2223056-MSD1)

Source: E205158-01

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

Diesel Range Organics (C10-C28)	510	25.0	500	ND	102	38-132	1.37	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/6/2022 3:08:19PM
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Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2223048-BLK1)

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

Chloride ND 20.0

LCS (2223048-BS1)

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

Chloride 244 20.0 250 97.7 90-110

Matrix Spike (2223048-MS1)

Source: E205157-01

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

Chloride 297 20.0 250 58.9 95.4 80-120

Matrix Spike Dup (2223048-MSD1)

Source: E205157-01

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

Chloride 310 20.0 250 58.9 100 80-120 4.02 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:	North Bell Lake Unit 4 #15 SWD	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/06/22 15:08

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

Client: Kaiser Francis Oil Co	Bill To	Lab Use Only	TAT	EPA Program
Project: North Bell Lake Unit 4 #15 SWD	Attention: Wescom Inc	Lab WO# E 205158	Job Number 21022-0001	CWA
Project Manager: Ashley Giovengo	Address: 1224 Standpipe Rd	1D 2D 3D Standard		SDWA
Address: 1224 Standpipe Rd	City, State, Zip: Carlsbad, NM 88220	Analysis and Method		RCRA
City, State, Zip: Carlsbad, NM 88220	Phone: 505-382-1211	State		
Phone: 505-382-1211	Email: ashley.giovengo@wescominc.com	NM CO UT AZ TX		
Email: ashley.giovengo@wescominc.com		Remarks		
Report due by:				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:26	5/26/22	Soil	1 Jar	CONF01 - 2'	1							X		
8:35	5/26/22	Soil	1 Jar	CONF02 - 2'	2							X		
9:00	5/26/22	Soil	1 Jar	CONF03 - 2'	3							X		
9:21	5/26/22	Soil	1 Jar	CONF04 - 2'	4							X		
8:58	5/26/22	Soil	1 Jar	CONF05 - 0'	5							X		
16:39	5/26/22	Soil	1 Jar	CONF06 - 10'	6							X		
16:22	5/26/22	Soil	1 Jar	CONF07 - 10'	7							X		
15:34	5/26/22	Soil	1 Jar	CONF08C - 0'	8							X		
15:39	5/26/22	Soil	1 Jar	CONF09B - 0'	9							X		
10:17	5/26/22	Soil	1 Jar	CONF10 - 0'	10							X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.				Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.			
Sampled by:							
Relinquished by: (Signature) <i>Eric Burton</i>	Date 5/27/22	Time 12:52	Received by: (Signature) <i>Reguere March</i>	Date 5-27-22	Time 12:57	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N	
Relinquished by: (Signature) <i>Reguere March</i>	Date 5-27-22	Time 1:45p	Received by: (Signature) <i>Caitlin Chute</i>	Date 5/31/22	Time 8:45	T1	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	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.



Client: Kaiser Francis Oil Co		Bill To		Lab Use Only			TAT			EPA Program		
Project: North Bell Lake Unit 4 #15 SWD		Attention: Wescom Inc		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd		E205158	21022-0001					x		
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method								
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	RCRA
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com										
Email: ashley.giovengo@wescominc.com		Report due by:										

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
14:17	5/26/22	Soil	1 Jar	CONF11B - 0'	11							X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>cole burton</i>	Date 7/27/22	Time 12:57	Received by: (Signature) <i>Ashley Giovengo</i>	Date 5-27-22	Time 12:57	Lab Use Only
Relinquished by: (Signature) <i>Ashley Giovengo</i>	Date 5-27-22	Time 1:45p	Received by: (Signature) <i>Carla Chata</i>	Date 5/31/22	Time 8:45	Received on ice: <input checked="" type="checkbox"/> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	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 Analytical Laboratory

Printed: 6/1/2022 4:01:24PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Kaiser Francis Oil Company Date Received: 05/31/22 08:45 Work Order ID: E205158
Phone: (505) 382-1211 Date Logged In: 05/31/22 09:35 Logged In By: Caitlin Christian
Email: ashley.giovengo@wescominc.com Due Date: 06/06/22 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instructions.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: North Bell Lake Unit 4 #15 SWD

Work Order: E206153

Job Number: 21022-0001

Received: 6/21/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/27/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 6/27/22

Ashley Giovengo
1224 Standpipe Rd
Carlsbad, NM 88220

Project Name: North Bell Lake Unit 4 #15 SWD
Workorder: E206153
Date Received: 6/21/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/21/2022 10:00:00AM, under the Project Name: North Bell Lake Unit 4 #15 SWD.

The analytical test results summarized in this report with the Project Name: North Bell Lake Unit 4 #15 SWD 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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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: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 06/27/22 17:27
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BC01 - 1'	E206153-01A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.
SS07 - 12'	E206153-02A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.
SS07 - 13'	E206153-03A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.
SS08E - 0'	E206153-04A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.
SS06 - 14'	E206153-05A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/27/2022 5:27:39PM
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BC01 - 1'

E206153-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22	
Toluene	ND	0.0250	1	06/22/22	06/23/22	
o-Xylene	ND	0.0250	1	06/22/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>	94.4 %	70-130		06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>	94.6 %	70-130		06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>	94.4 %	70-130		06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>	94.6 %	70-130		06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22	
<i>Surrogate: n-Nonane</i>	91.2 %	50-200		06/24/22	06/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2226100
Chloride	ND	20.0	1	06/24/22	06/24/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/27/2022 5:27:39PM
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SS07 - 12'

E206153-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22	
Toluene	ND	0.0250	1	06/22/22	06/23/22	
o-Xylene	ND	0.0250	1	06/22/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.7 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.7 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22	
<i>Surrogate: n-Nonane</i>		92.8 %	50-200	06/24/22	06/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2226100
Chloride	84.9	20.0	1	06/24/22	06/24/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/27/2022 5:27:39PM
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SS07 - 13'

E206153-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22	
Toluene	ND	0.0250	1	06/22/22	06/23/22	
o-Xylene	ND	0.0250	1	06/22/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.1 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.1 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22	
<i>Surrogate: n-Nonane</i>		119 %	50-200	06/24/22	06/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2226100
Chloride	82.1	20.0	1	06/24/22	06/24/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/27/2022 5:27:39PM
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SS08E - 0'

E206153-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22	
Toluene	ND	0.0250	1	06/22/22	06/23/22	
o-Xylene	ND	0.0250	1	06/22/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		94.0 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		94.0 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	06/24/22	06/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2226100
Chloride	59.5	20.0	1	06/24/22	06/24/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/27/2022 5:27:39PM
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SS06 - 14'

E206153-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22	
Toluene	ND	0.0250	1	06/22/22	06/23/22	
o-Xylene	ND	0.0250	1	06/22/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.5 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.5 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	06/24/22	06/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2226100
Chloride	1350	40.0	2	06/24/22	06/24/22	



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/27/2022 5:27:39PM
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Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226053-BLK1)

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

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
<i>Surrogate: Bromofluorobenzene</i>	0.492		0.500		98.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.488		0.500		97.5	70-130			
<i>Surrogate: Toluene-d8</i>	0.484		0.500		96.7	70-130			

LCS (2226053-BS1)

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

Benzene	2.31	0.0250	2.50		92.4	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.5	70-130			
Toluene	2.33	0.0250	2.50		93.3	70-130			
o-Xylene	2.41	0.0250	2.50		96.2	70-130			
p,m-Xylene	4.74	0.0500	5.00		94.8	70-130			
Total Xylenes	7.14	0.0250	7.50		95.2	70-130			
<i>Surrogate: Bromofluorobenzene</i>	0.515		0.500		103	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.491		0.500		98.2	70-130			
<i>Surrogate: Toluene-d8</i>	0.507		0.500		101	70-130			

LCS Dup (2226053-BSD1)

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

Benzene	2.36	0.0250	2.50		94.3	70-130	1.99	23	
Ethylbenzene	2.37	0.0250	2.50		95.0	70-130	1.57	27	
Toluene	2.35	0.0250	2.50		93.8	70-130	0.534	24	
o-Xylene	2.45	0.0250	2.50		98.0	70-130	1.87	27	
p,m-Xylene	4.80	0.0500	5.00		96.0	70-130	1.31	27	
Total Xylenes	7.25	0.0250	7.50		96.7	70-130	1.50	27	
<i>Surrogate: Bromofluorobenzene</i>	0.524		0.500		105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.497		0.500		99.4	70-130			
<i>Surrogate: Toluene-d8</i>	0.504		0.500		101	70-130			



Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: North Bell Lake Unit 4 #15 SWD

Work Order: E206153

Job Number: 21022-0001

Received: 6/21/2022

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/21/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 9/21/22

Ashley Giovengo
1224 Standpipe Rd
Carlsbad, NM 88220

Project Name: North Bell Lake Unit 4 #15 SWD
Workorder: E206153
Date Received: 6/21/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/21/2022 10:00:00AM, under the Project Name: North Bell Lake Unit 4 #15 SWD.

The analytical test results summarized in this report with the Project Name: North Bell Lake Unit 4 #15 SWD 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: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 09/21/22 09:29
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 - 1'	E206153-01A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.
CONF07 - 12'	E206153-02A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.
CONF07 - 13'	E206153-03A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.
CONF08E - 0'	E206153-04A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.
CONF06 - 14'	E206153-05A	Soil	06/16/22	06/21/22	Glass Jar, 4 oz.



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:29:40AM
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BG01 - 1'
E206153-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22
Toluene	ND	0.0250	1	06/22/22	06/23/22
o-Xylene	ND	0.0250	1	06/22/22	06/23/22
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22

<i>Surrogate: Bromofluorobenzene</i>	94.4 %	70-130		06/22/22	06/23/22
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		06/22/22	06/23/22
<i>Surrogate: Toluene-d8</i>	94.6 %	70-130		06/22/22	06/23/22

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22
<i>Surrogate: Bromofluorobenzene</i>	94.4 %	70-130		06/22/22	06/23/22
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		06/22/22	06/23/22
<i>Surrogate: Toluene-d8</i>	94.6 %	70-130		06/22/22	06/23/22

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22
<i>Surrogate: n-Nonane</i>	91.2 %	50-200		06/24/22	06/27/22

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2226100
Chloride	ND	20.0	1	06/24/22	06/24/22



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:29:40AM
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CONF07 - 12'

E206153-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22	
Toluene	ND	0.0250	1	06/22/22	06/23/22	
o-Xylene	ND	0.0250	1	06/22/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.7 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.7 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22	
<i>Surrogate: n-Nonane</i>		92.8 %	50-200	06/24/22	06/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2226100
Chloride	84.9	20.0	1	06/24/22	06/24/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:29:40AM
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CONF07 - 13'

E206153-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22	
Toluene	ND	0.0250	1	06/22/22	06/23/22	
o-Xylene	ND	0.0250	1	06/22/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.1 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.1 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22	
<i>Surrogate: n-Nonane</i>		119 %	50-200	06/24/22	06/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2226100
Chloride	82.1	20.0	1	06/24/22	06/24/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:29:40AM
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CONF08E - 0'

E206153-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22	
Toluene	ND	0.0250	1	06/22/22	06/23/22	
o-Xylene	ND	0.0250	1	06/22/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		94.0 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		94.0 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	06/24/22	06/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2226100
Chloride	59.5	20.0	1	06/24/22	06/24/22	



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:29:40AM
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CONF06 - 14'

E206153-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Benzene	ND	0.0250	1	06/22/22	06/23/22	
Ethylbenzene	ND	0.0250	1	06/22/22	06/23/22	
Toluene	ND	0.0250	1	06/22/22	06/23/22	
o-Xylene	ND	0.0250	1	06/22/22	06/23/22	
p,m-Xylene	ND	0.0500	1	06/22/22	06/23/22	
Total Xylenes	ND	0.0250	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.5 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226053
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/22/22	06/23/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	06/22/22	06/23/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	06/22/22	06/23/22	
<i>Surrogate: Toluene-d8</i>		95.5 %	70-130	06/22/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2226094
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/27/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	06/24/22	06/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2226100
Chloride	1350	40.0	2	06/24/22	06/24/22	



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:29:40AM
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Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226053-BLK1)

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

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			

LCS (2226053-BS1)

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

Benzene	2.31	0.0250	2.50		92.4	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.5	70-130			
Toluene	2.33	0.0250	2.50		93.3	70-130			
o-Xylene	2.41	0.0250	2.50		96.2	70-130			
p,m-Xylene	4.74	0.0500	5.00		94.8	70-130			
Total Xylenes	7.14	0.0250	7.50		95.2	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

LCS Dup (2226053-BSD1)

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

Benzene	2.36	0.0250	2.50		94.3	70-130	1.99	23	
Ethylbenzene	2.37	0.0250	2.50		95.0	70-130	1.57	27	
Toluene	2.35	0.0250	2.50		93.8	70-130	0.534	24	
o-Xylene	2.45	0.0250	2.50		98.0	70-130	1.87	27	
p,m-Xylene	4.80	0.0500	5.00		96.0	70-130	1.31	27	
Total Xylenes	7.25	0.0250	7.50		96.7	70-130	1.50	27	
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:29:40AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226053-BLK1)

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

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			

LCS (2226053-BS2)

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

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.1	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS Dup (2226053-BSD2)

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

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.4	70-130	0.292	20	
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:29:40AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226094-BLK1)

Prepared: 06/24/22 Analyzed: 06/27/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	46.1		50.0		92.1	50-200			

LCS (2226094-BS1)

Prepared: 06/24/22 Analyzed: 06/27/22

Diesel Range Organics (C10-C28)	497	25.0	500		99.4	38-132			
Surrogate: <i>n</i> -Nonane	48.4		50.0		96.7	50-200			

Matrix Spike (2226094-MS1)

Source: E206162-02

Prepared: 06/24/22 Analyzed: 06/27/22

Diesel Range Organics (C10-C28)	554	25.0	500	90.9	92.6	38-132			
Surrogate: <i>n</i> -Nonane	51.4		50.0		103	50-200			

Matrix Spike Dup (2226094-MSD1)

Source: E206162-02

Prepared: 06/24/22 Analyzed: 06/27/22

Diesel Range Organics (C10-C28)	490	25.0	500	90.9	79.9	38-132	12.2	20	
Surrogate: <i>n</i> -Nonane	50.1		50.0		100	50-200			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: North Bell Lake Unit 4 #15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:29:40AM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2226100-BLK1)

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

Chloride	ND	20.0							
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LCS (2226100-BS1)

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

Chloride	247	20.0	250		98.7	90-110			
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Matrix Spike (2226100-MS1)

Source: E206152-21

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

Chloride	2130	40.0	250	1920	83.4	80-120			
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Matrix Spike Dup (2226100-MSD1)

Source: E206152-21

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

Chloride	2220	40.0	250	1920	119	80-120	4.07	20	
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QC Summary Report Comment:

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



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	North Bell Lake Unit 4 #15 SWD	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/21/22 09:29

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Chain of Custody

Client: **Kaiser Francis Oil Co.**
 Project: **North Bell Lake Unit 4 #15**
 Project Manager: **Ashley Giovenzo**
 Address: **1224 Standpipe Rd**
 City, State, Zip: **Carlsbad, NM 88220**
 Phone: **505-382-1211**
 Email: **ashley.giovenzo@wescominc.com**
 Report due by:

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

Lab Use Only
 Lab WO# **E 2016153** Job Number **21022-001**
 TAT
 1D 2D 3D Standard
 EPA Program
 CWA SDWA
 RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Analysis and Method										State					Remarks	
						DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	NM	CO	UT	AZ	TX				
700	6/16/22	Soil	1 jar	BG01-1'	1											X						
406	6/16/22	Soil	1 jar	SS07-12'	2											X						
450	6/16/22	Soil	1 jar	SS07-13'	3											X						
1552	6/16/22	Soil	1 jar	SS08E-0'	4											X						
1054	6/16/22	Soil	1 jar	SS06-14'	5											X						

Additional Instructions: **Preserved on ice; please cc shar. harvester cole. burton and ashley.giovenzo@wescominc.com**

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature)	6/20/22	12:26	Received by: (Signature)	6-20-22	12:30	
Relinquished by: (Signature)	6-20-22	4:15	Received by: (Signature)	6/20/22	10:00	

Sample Matrix: S - Soil, Sl - Solid, Sg - Sludge, A - Aqueous, O - Other
 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Received by: [Signature] 6/30/2022 3:52:38 PM

Received by: [Signature] 11/4/2022 7:11:12 AM

Page 96 of 126

Envirotech Analytical Laboratory

Printed: 6/21/2022 10:57:58AM

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: 06/21/22 10:00 Work Order ID: E206153
Phone: (505) 382-1211 Date Logged In: 06/21/22 09:44 Logged In By: Caitlin Christian
Email: ashley.giovengo@wescominc.com Due Date: 06/27/22 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: UPS

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instructions.

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL 4-15 SWD

Work Order: E209083

Job Number: 21022-0001

Received: 9/17/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/21/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/21/22



Ashley Giovengo
1224 Standpipe Rd
Carlsbad, NM 88220

Project Name: NBL 4-15 SWD
Workorder: E209083
Date Received: 9/17/2022 11:50:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/17/2022 11:50:00AM, under the Project Name: NBL 4-15 SWD.

The analytical test results summarized in this report with the Project Name: NBL 4-15 SWD 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

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Laboratory Administrator
Office: 505-632-1881
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Alexa Michaels
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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 4-15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 09/21/22 09:31
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF11F - 0'	E209083-01A	Soil	09/15/22	09/17/22	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:31:59AM
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CONF11F - 0'
E209083-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238084
Benzene	ND	0.0250	1	09/17/22	09/18/22	
Ethylbenzene	ND	0.0250	1	09/17/22	09/18/22	
Toluene	ND	0.0250	1	09/17/22	09/18/22	
o-Xylene	ND	0.0250	1	09/17/22	09/18/22	
p,m-Xylene	ND	0.0500	1	09/17/22	09/18/22	
Total Xylenes	ND	0.0250	1	09/17/22	09/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/17/22	09/18/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/22	09/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.1 %	70-130	09/17/22	09/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239007
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/19/22	
<i>Surrogate: n-Nonane</i>						
		95.8 %	50-200	09/19/22	09/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239009
Chloride	22.6	20.0	1	09/19/22	09/19/22	



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:31:59AM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2238084-BLK1)

Prepared: 09/17/22 Analyzed: 09/18/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

LCS (2238084-BS1)

Prepared: 09/17/22 Analyzed: 09/18/22

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.25	0.0250	5.00		85.0	70-130			
Toluene	4.49	0.0250	5.00		89.7	70-130			
o-Xylene	4.34	0.0250	5.00		86.7	70-130			
p,m-Xylene	8.63	0.0500	10.0		86.3	70-130			
Total Xylenes	13.0	0.0250	15.0		86.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			

LCS Dup (2238084-BSD1)

Prepared: 09/17/22 Analyzed: 09/18/22

Benzene	5.49	0.0250	5.00		110	70-130	8.99	20	
Ethylbenzene	4.63	0.0250	5.00		92.6	70-130	8.55	20	
Toluene	4.89	0.0250	5.00		97.8	70-130	8.56	20	
o-Xylene	4.72	0.0250	5.00		94.4	70-130	8.50	20	
p,m-Xylene	9.37	0.0500	10.0		93.7	70-130	8.17	20	
Total Xylenes	14.1	0.0250	15.0		93.9	70-130	8.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:31:59AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2238084-BLK1)

Prepared: 09/17/22 Analyzed: 09/18/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.15		8.00		76.9	70-130			

LCS (2238084-BS2)

Prepared: 09/17/22 Analyzed: 09/18/22

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.60		8.00		82.5	70-130			

LCS Dup (2238084-BSD2)

Prepared: 09/17/22 Analyzed: 09/18/22

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130	1.03	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.54		8.00		81.7	70-130			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:31:59AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2239007-BLK1)

Prepared: 09/19/22 Analyzed: 09/19/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	36.0		50.0		72.0	50-200			

LCS (2239007-BS1)

Prepared: 09/19/22 Analyzed: 09/19/22

Diesel Range Organics (C10-C28)	209	25.0	250		83.5	38-132			
Surrogate: <i>n</i> -Nonane	33.4		50.0		66.9	50-200			

Matrix Spike (2239007-MS1)

Source: E209084-21

Prepared: 09/19/22 Analyzed: 09/19/22

Diesel Range Organics (C10-C28)	263	25.0	250	36.0	90.9	38-132			
Surrogate: <i>n</i> -Nonane	35.3		50.0		70.6	50-200			

Matrix Spike Dup (2239007-MSD1)

Source: E209084-21

Prepared: 09/19/22 Analyzed: 09/19/22

Diesel Range Organics (C10-C28)	252	25.0	250	36.0	86.2	38-132	4.57	20	
Surrogate: <i>n</i> -Nonane	34.7		50.0		69.4	50-200			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/21/2022 9:31:59AM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2239009-BLK1)

Prepared: 09/19/22 Analyzed: 09/19/22

Chloride ND 20.0

LCS (2239009-BS1)

Prepared: 09/19/22 Analyzed: 09/19/22

Chloride 264 20.0 250 106 90-110

Matrix Spike (2239009-MS1)

Source: E209083-01

Prepared: 09/19/22 Analyzed: 09/19/22

Chloride 282 20.0 250 22.6 104 80-120

Matrix Spike Dup (2239009-MSD1)

Source: E209083-01

Prepared: 09/19/22 Analyzed: 09/19/22

Chloride 292 20.0 250 22.6 108 80-120 3.60 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 4-15 SWD	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/21/22 09:31

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Envirotech Analytical Laboratory

Printed: 9/19/2022 8:43:40AM

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:	09/17/22 11:50	Work Order ID:	E209083
Phone:	(505) 382-1211	Date Logged In:	09/16/22 16:25	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	09/19/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

Carrier: UPS

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

ATTACHMENT F

Depth to Water Approval Email



Energizing America

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

North Bell Lake Unit 4 #15 SWD | Incident ID: nAPP2211830910

3/17/22, 3:07 PM

Wescom Inc Mail - RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949



Ashley Giovengo <ashley.giovengo@wescominc.com>

RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

1 message

Aaron Daniels <aarond@kfoc.net>
To: Ashley Giovengo <ashley.giovengo@wescominc.com>
Cc: Charles Lock <CharlesL@kfoc.net>, Shar Harvester <shar.harvester@wescominc.com>

I need to speak to Charles and JP.

Will an answer by the end of business today suffice?

AD

From: Ashley Giovengo <ashley.giovengo@wescominc.com>
Sent: Monday, February 7, 2022 9:05 AM
To: Aaron Daniels <aarond@kfoc.net>
Cc: Charles Lock <CharlesL@kfoc.net>; Shar Harvester <shar.harvester@wescominc.com>
Subject: Re: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Aaron,

Wonderful news! Would you like me to complete the surface scrape on-pad once we complete the off-pad spill remediation?

Thanks,

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

Minnesota | North Dakota | New Mexico | Wisconsin

On Mon, Feb 7, 2022 at 7:58 AM Aaron Daniels <aarond@kfoc.net> wrote:

Approval in writing for the depth to water.

AD

From: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Sent: Monday, February 7, 2022 8:49 AM
To: Aaron Daniels <aarond@kfoc.net>
Cc: Charles Lock <CharlesL@kfoc.net>
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Aaron,

When you turn in your Workplan and/or Closure report please include this email chain information and yes it should be allowed.

Cheers,

Chad Hensley • Environmental Science & Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
811 First St. | Artesia, NM 88210
Office: 575.748.1283 | Cell: 575-703-1723
chad.hensley@state.nm.us

3/17/22, 3:07 PM

Wescor Inc Mail - RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

<http://www.emnrd.state.nm.us/OCD/>



From: Aaron Daniels <aarond@kfoc.net>
Sent: Monday, February 7, 2022 7:37 AM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Cc: Charles Lock <CharlesL@kfoc.net>
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Chad – hope you are doing well.

Wanted to ask, instead of assuming....

As you are probably aware, we had an additional produced water release on the North Bell Lake 4-15 SWD location.

You approved this well as depth to water for the referenced spill (nAPP2116429491) in this message. Will this be accepted for the new spill (nAPP2200646019) at the same location?

Thanks,

AD

From: Aaron Daniels
Sent: Tuesday, January 11, 2022 1:19 PM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Cc: Charles Lock <CharlesL@kfoc.net>
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Hey Chad,

Wanted to provide you with some information based on our last conversation.

The water well information I spoke to you about is attached, and was utilized for the release numbered nAPP2107043534 (NBL 4-15 SWD Produced Water Line).

It is ~0.66 miles from the 4-15 pad, on down the lease road to the East. See the screenshot below illustrating this. Let me know if you need more information from me.

I appreciate your consideration. Good luck today!

Home ▾ KAISER FRANCIS MAP

Details | Edit | Basemap

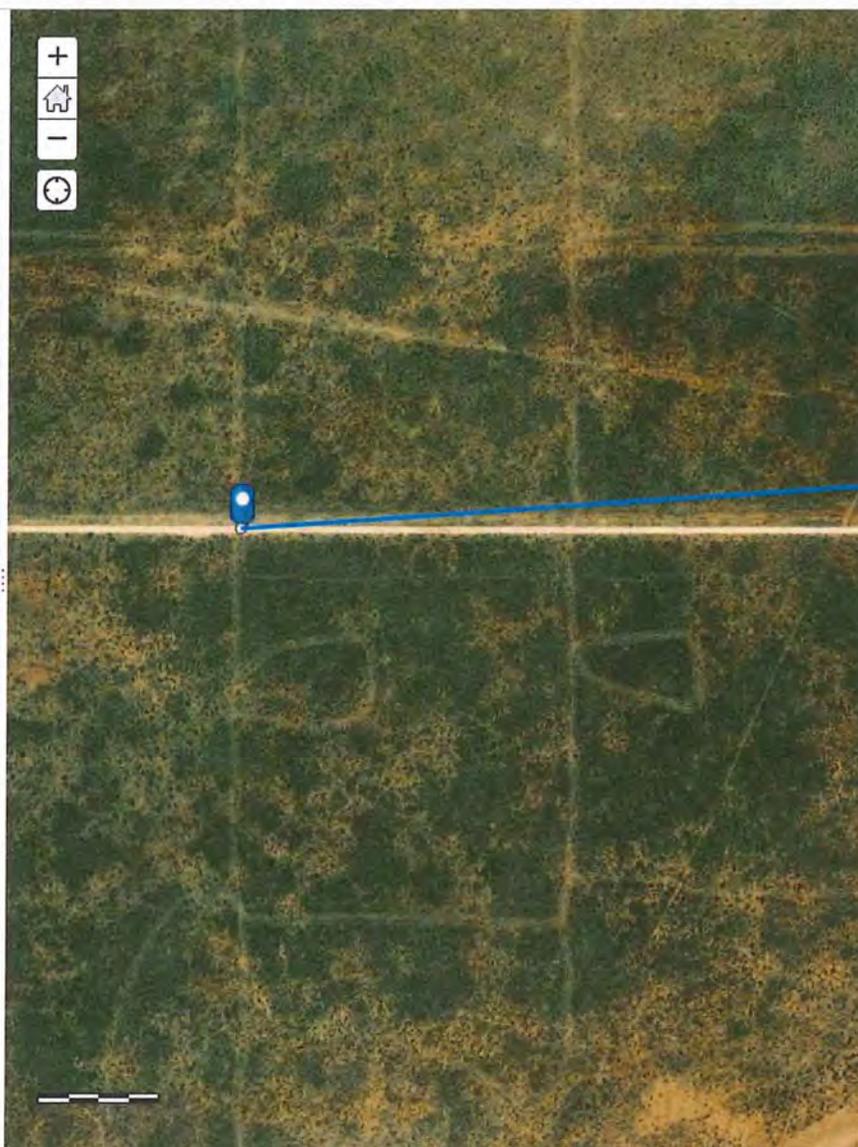
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- LOUISIANA PIPELINES
- LOUISIANA WELLS
- NEW MEXICO PIPELINES
- NEW MEXICO WELLS
- NORTH DAKOTA WELLS
- OKLAHOMA COMPRESSOR STATIONS
- OKLAHOMA PIPELINES
- OKLAHOMA WELLS
- TEXAS PIPELINES
- TEXAS WELLS

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From: Aaron Daniels
 Sent: Monday, January 10, 2022 3:54 PM
 To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
 Cc: Charles Lock <CharlesL@kfoc.net>
 Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Chad,

Hope you had a good weekend.

Wanted to check in and see if you received any feedback from Mike on the water depth for this project.

Thanks,

AD

From: Aaron Daniels
 Sent: Wednesday, December 29, 2021 12:54 PM
 To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>

3/17/22, 3:07 PM

Wescom Inc Mail - RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Cc: Charles Lock <CharlesL@kfoc.net>

Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Chad,

Would you have time to discuss this next week sometime?

Let me know your availability.

Thanks,

Aaron Daniels

Sr. EHS Representative

Kaiser-Francis Oil Company

918-491-4352

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Wednesday, December 29, 2021 12:28 PM

To: Aaron Daniels <aarond@kfoc.net>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

To whom it may concern (c/o Aaron Daniels for KAISER-FRANCIS OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action (C-141)*, for incident ID (n#) nAPP2116429491, for the following reasons:

- The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than 1/2 r submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to g
- RECLAMATION did not meet the requirements of 19.15.29.13 NMAC. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen i

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 64949.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Chad Hensley

Environmental Science & Specialist

575-703-1723

Chad.Hensley@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

ATTACHMENT G

48-Hour Liner Inspection Notification Email



Energizing America

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

North Bell Lake Unit 4 #15 SWD | Incident ID: nAPP2211830910

Ashley Giovengo

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Monday, May 23, 2022 10:03 AM
To: Ashley Giovengo
Cc: Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject: RE: [EXTERNAL] 48-Hour Confirmation Sample Notice - North Bell Lake Unit 4 #015 SWD – nAPP2211830910

Ashley

Thank you for the notification. 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: Ashley Giovengo <ashley.giovengo@wescominc.com>
Sent: Monday, May 23, 2022 8:54 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Cc: Shar Harvester <shar.harvester@wescominc.com>; Cole Burton <cole.burton@wescominc.com>; Aaron Daniels <aarond@kfoc.net>; Hutton Andrew <Huttona@kfoc.net>; Joey Croce <joey.croce@wescominc.com>; Cody York <cody.york@wescominc.com>
Subject: [EXTERNAL] 48-Hour Confirmation Sample Notice - North Bell Lake Unit 4 #015 SWD – nAPP2211830910

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

Hello All,

We intend to take confirmation samples at the North Bell Lake Unit 4 #015 SWD – nAPP2211830910 starting on (5/26/22).

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

Thanks,

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

Minnesota | North Dakota | New Mexico | Wisconsin

Ashley Giovengo

From: Ashley Giovengo
Sent: Tuesday, August 23, 2022 8:02 AM
To: OCD.Enviro@state.nm.us
Cc: Hutton Andrew; EHSDB; Aaron Daniels; Shar Harvester; Cole Burton; Israel Estrella
Subject: RE: 48-Hour Confirmation Sample Notice - North Bell Lake Unit 4 #015 SWD – nAPP2211830910

Hello All,

Please see the correct date below.

We intend to take confirmation samples at the North Bell Lake Unit 4 #015 SWD – nAPP2211830910 starting on (8/24/22).

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

Thanks,

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

From: Ashley Giovengo
Sent: Monday, August 22, 2022 7:22 AM
To: OCD.Enviro@state.nm.us
Cc: Hutton Andrew <Huttona@kfoc.net>; EHSDB <EHSDB@kfoc.net>; Aaron Daniels <aarond@kfoc.net>; Shar Harvester <Shar.Harvester@WescomInc.com>; Cole Burton <cole.burton@wescominc.com>; Israel Estrella <Israel.Estrella@wescominc.com>
Subject: 48-Hour Confirmation Sample Notice - North Bell Lake Unit 4 #015 SWD – nAPP2211830910

Hello All,

We intend to take confirmation samples at the North Bell Lake Unit 4 #015 SWD – nAPP2211830910 starting on (5/24/22).

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

Thanks,

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

From: cole.burton@wescominc.com
To: [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#); Nelson.Velez@state.nm.us; Jennifer.Nobui@state.nm.us; Bradford.Billings@state.nm.us; [Hensley, Chad, EMNRD](#)
Cc: [Ashley Giovengo](#); [Shar Harvester](#); [Aaron Daniels](#); [Hutton Andrew](#)
Subject: 48-hour Liner Inspection Notification -North Bell Lake Unit #015(nAPP2211830910)
Date: Monday, May 2, 2022 7:20:43 AM

Hello All,

This email is to notify the NMOCD that Wescom, Inc. will be at the North Bell Lake Unit #015 (nAPP2211830910) to perform a liner inspection. Inspection will be conducted on Wednesday, May 4, 2022 (05/4/2022) at approximately 0900 hours. Please let me know if you have any questions.

Thank you,

Cole Burton, Environmental Field Technician
O (218) 724-1322 | C (505) 205-0455
WescomInc.com | cole.burton@WescomInc.com
"I am in charge of my own safety."

From: [Nobui, Jennifer, EMNRD](#)
To: [Cole Burton](#)
Cc: [Bratcher, Michael, EMNRD](#)
Subject: FW: [EXTERNAL] RE: 48-Hour Confirmation Sample Notice - North Bell Lake Unit 4 #15 SWD - nAPP2211830910
Date: Monday, October 17, 2022 9:45:22 AM

Cole

Thank you for the notification. 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: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, October 17, 2022 8:27 AM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] RE: 48-Hour Confirmation Sample Notice - North Bell Lake Unit 4 #15 SWD - nAPP2211830910

From: Cole Burton <cole.burton@wescominc.com>
Sent: Monday, October 17, 2022 7:38 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ashley Giovengo <ashley.giovengo@wescominc.com>; Shar Harvester <Shar.Harvester@WescomInc.com>; Joey Croce <Joey.Croce@WescomInc.com>; Aaron Daniels <aarond@kfoc.net>; Hutton Andrew <huttona@kfoc.net>
Subject: [EXTERNAL] RE: 48-Hour Confirmation Sample Notice - North Bell Lake Unit 4 #15 SWD - nAPP2211830910

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

Hello,

Due to weather the confirmation sampling event at the North Bell Lake Unit 4 #015 SWD – nAPP2211830910 has been moved to (10/18/22)

Thanks,

Cole Burton, Environmental Field Technician
O (218) 724-1322 | C (505) 205-0455
WescomInc.com | cole.burton@WescomInc.com
"I am in charge of my own safety."

From: Cole Burton
Sent: Wednesday, October 12, 2022 11:42 AM
To: OCD. Enviro (ocd.enviro@emnrd.nm.gov) <ocd.enviro@emnrd.nm.gov>
Cc: Ashley Giovengo <ashley.giovengo@wescominc.com>; Shar Harvester <Shar.Harvester@WescomInc.com>; Joey Croce <Joey.Croce@WescomInc.com>; Aaron Daniels <aarond@kfoc.net>; Hutton Andrew <huttona@kfoc.net>
Subject: 48-Hour Confirmation Sample Notice - North Bell Lake Unit 4 #15 SWD - nAPP2211830910

Hello All,

We intend to take confirmation samples at the North Bell Lake Unit 4 #015 SWD – nAPP2211830910 starting on (10/17/22).

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

Thanks,

Cole Burton, Environmental Field Technician
O (218) 724-1322 | C (505) 205-0455
WescomInc.com | cole.burton@WescomInc.com
"I am in charge of my own safety."

ATTACHMENT H

Extension Request Email



Energizing America

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

North Bell Lake Unit 4 #15 SWD | Incident ID: nAPP2211830910

Ashley Giovengo

From: Hutton Andrew <Huttona@kfoc.net>
Sent: Tuesday, July 26, 2022 12:58 PM
To: Ashley Giovengo; Aaron Daniels
Subject: FW: [EXTERNAL] Extension Request - (nAPP2211830910) - North Bell Lake Unit 4-15 SWD

4-15 extension request granted.

Hutton Andrew
Sr. EHS Rep
Kaiser Francis Oil Company
C: 580.307.7363
O: 918.491.4615

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Tuesday, July 26, 2022 1:56 PM
To: Hutton Andrew <Huttona@kfoc.net>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: RE: [EXTERNAL] Extension Request - (nAPP2211830910) - North Bell Lake Unit 4-15 SWD

Andrew

Your request for an extension is approved to **September 30th, 2022** to submit a closure report. Please include this e-mail correspondence in the closure report.

Thanks
Jennifer Nobui

From: Hutton Andrew <Huttona@kfoc.net>
Sent: Tuesday, July 26, 2022 12:48 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Aaron Daniels <aarond@kfoc.net>
Subject: [EXTERNAL] Extension Request - (nAPP2211830910) - North Bell Lake Unit 4-15 SWD

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

Good afternoon,

KFOC hereby requests an extension for the release at the North Bell Lake 4-15 SWD site (nAPP2211830910) due to the following reasons:

- Liner Inspection was completed on 05/04/2022. Wescom personnel identified seven potential release points inside the containment liner.
- Wescom personnel returned to the site on 05/26/2022 to vertically delineate inside the containment liner. Delineation was completed in five out of the seven sample locations.

- Wescom contracted WSP to completed vertical delineation inside containment on 06/16/2022 with a gas-powered hand auger. Vertical delineation was achieved in one of the two remaining sample areas.
- Wescom personnel ordered additional extensions to achieve vertical delineation greater than 14 ft. below ground surface. Additional extensions should arrive no later than 08/05/2022 at which time, Wescom will return to the site and complete vertical delineation.

Please let me know what questions you have.

Thank you,
Hutton Andrew
Sr. EHS Rep
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 156230

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 156230
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	11/30/2022