ENSOLUM

November 30, 2023

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Request
Three Bear/Delek CTP
Incident Number: nAPP2324454223
Lea County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Kaiser-Francis Oil Company (KFOC), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the Three Bear/Delek CTP (Site) (Figure 1). The purpose of the Site assessment, excavation, and soil sampling activities was to address waste-containing soil resulting from a produced water release at the Site. Based on the excavation activities and analytical results from the soil sampling events, KFOC is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2324454223.

BACKGROUND

The Site is located in Unit A, Section 36, Township 22 South, Range 33 East, in Lea County, New Mexico (32.355305°, -103.517979°) and is associated with oil and gas exploration and production operations on New Mexico State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On September 1, 2023, a leaking gasket on a produced water transfer line resulted in the release of approximately 337 barrels (bbls) of produced water onto an off-pad pasture area. A vacuum truck was dispatched to the Site to remove free-standing fluids; a total of 100 bbls of produced water was recovered following the isolation and repair of the transfer line. KFOC reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on September 1, 2023, and the release was assigned Incident Number nAPP2324454223.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141 (Appendix A), Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 101 feet below ground surface (bgs) based on a soil boring completed by Atkins Engineering Associates Inc. The soil boring CP-1982 Pod-1 (also referred to as BH-01) was completed on November 7, 2023, for the purpose of establishing depth to water within a half-mile radius of the Site. Soil boring, CP-1982 Pod-1 is located approximately 0.32 miles south of the Site. The soil boring has a reported depth to groundwater greater than 101 feet

bgs and a total depth of 101 feet bgs. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation to suggest the Site is conducive to shallower groundwater. The well used for depth to groundwater determination is presented on Figure 1. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 4,541 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on September 5, 2023, through September 7, 2023, Ensolum personnel were onsite to oversee the delineation and excavation of waste-containing soil as indicated by field screening and laboratory analytical results. Two potholes (PH01 and PH02) were advanced via backhoe within the release extent to assess the vertical extent of the release. Delineation soil samples were collected from each pothole at depths ranging from 2 feet to 6 feet bgs and 5 feet to 15 feet bgs, respectively. Four delineation soil samples (SS01 through SS04) were collected from areas surrounding the release extent to verify the lateral extent at 0.5 feet bgs. All delineation soil samples were field screened for chloride using Hach® Chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples collected from potholes PH01 and PH02 were in compliance with the Closure Criteria and reclamation requirement at 6 feet bgs and 14 feet bgs, respectively. All lateral delineation soil samples were in compliance with the Closure Criteria and reclamation requirement at 0.5 feet bgs. As a result, waste-containing soil was identified in the top 4 feet of the pasture area and it was necessary to remove waste-containing soil through excavation activities to support reclamation requirements. Laboratory results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Prior to beginning excavation activities at the Site, an archaeological survey was completed by Jeffery Pangburn. The survey determined that the release area was negative for cultural properties, and as such, the Cultural Properties Protection Rule (CPP) has been followed (see Appendix E).

Excavation of impacted soil was completed utilizing a track hoe and belly dump trucks. To direct excavation activities, soil was field screened for TPH utilizing a PetroFLAG® soil analyzer system and chloride utilizing test strips. The excavation area ranged in depth from 4 feet to 8 feet bgs and photographic documentation of excavation activities is included in Appendix F.

A confirmation soil sampling variance was submitted to NMOCD prior to collecting confirmation samples and approved by Mr. Nelson Velez on September 13, 2023 (see Appendix G). Following the approved sampling variance, 5-point composite soil samples were collected every 200 square feet from the sidewalls and every 400 square feet from the floor of the excavation beginning on September 15, 2023. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW04 and SW06, SW08, and SW09 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs to assess the root zone for future revegetation purposes. Composite sidewall samples SW07, SW10 and SW11 and SW05 and SW12 were also collected from the sidewalls of the excavation at depths ranging from ground surface to 6 feet bgs and ground surface to 8 feet bgs respectively. Composite soil samples FS01 through FS20 were collected from the floor of the excavation at depths ranging from 4 feet to 8 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above.

The final excavation extent measured approximately 8,000 square feet. A total of approximately 1,500 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the Northern Delaware Basin Disposal Facility. The excavation extent and excavation soil sample locations are presented in Figure 3.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation sidewall samples SW01 through SW12 and excavation floor samples FS01 through FS20 indicated all COC concentrations were compliant with the Site Closure Criteria and in compliance with the reclamation requirement. Laboratory analytical results are summarized in Tables 2 and 3 and laboratory analytical reports are included as Appendix D.

RECLAMATION PLAN

Portions of the release occurred off pad in the pasture and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH were applied to the top 4 feet of the off-pad area that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release includes: Kermit soils and Dune Land, 0 to 12 percent slopes according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey completed on November 27, 2023;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: NMSLO Deep Sand (DS) Mixture;
- The seed mixture will be distributed with either a push broadcaster seed spreader, tractor operated broadcast seed spreader, drill seeding, or other means;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- Erosion control management is not anticipated, but if needed, will potentially include:
    - The placement of waddles in areas with a propensity for high run off rates;
    - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
    - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Seeding is anticipated to be completed in the Spring when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 2023 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure

Criteria per NMOCD Table I. Based on the soil sample analytical results, no further remediation was required. Reclamation will be completed as described above.

Following remediation efforts, 20 composite confirmation floor soil samples (FS01 through FS20) and 12 composite confirmation sidewall samples (SW01 though SW12) were collected. All samples were in compliance with Site Closure Criteria and with the reclamation requirement in the top 4 feet of soil.

Based on horizontal and vertical delineation sampling, depth to groundwater greater than 101 feet bgs, and confirmation soil sample laboratory analytical results in compliance with their respective Closure Criteria and reclamation requirement, KFOC believes these remedial actions have been protective of human health, the environment, and groundwater. As such, KFOC respectfully requests closure for Incident Number nAPP2324454223.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely,
Ensolum, LLC

Ashley Giovengo
Senior Engineer

Daniel R. Moir, PG
Senior Managing Geologist

cc: Hutton Andrew, KFOC
NMSLO

Appendices:

Figure 1	Site Location Map
Figure 2	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Form C-141
Appendix B	Well Log and Record
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMSLO Cultural Resources Cover Sheet
Appendix F	Photographic Log
Appendix G	Email Correspondence

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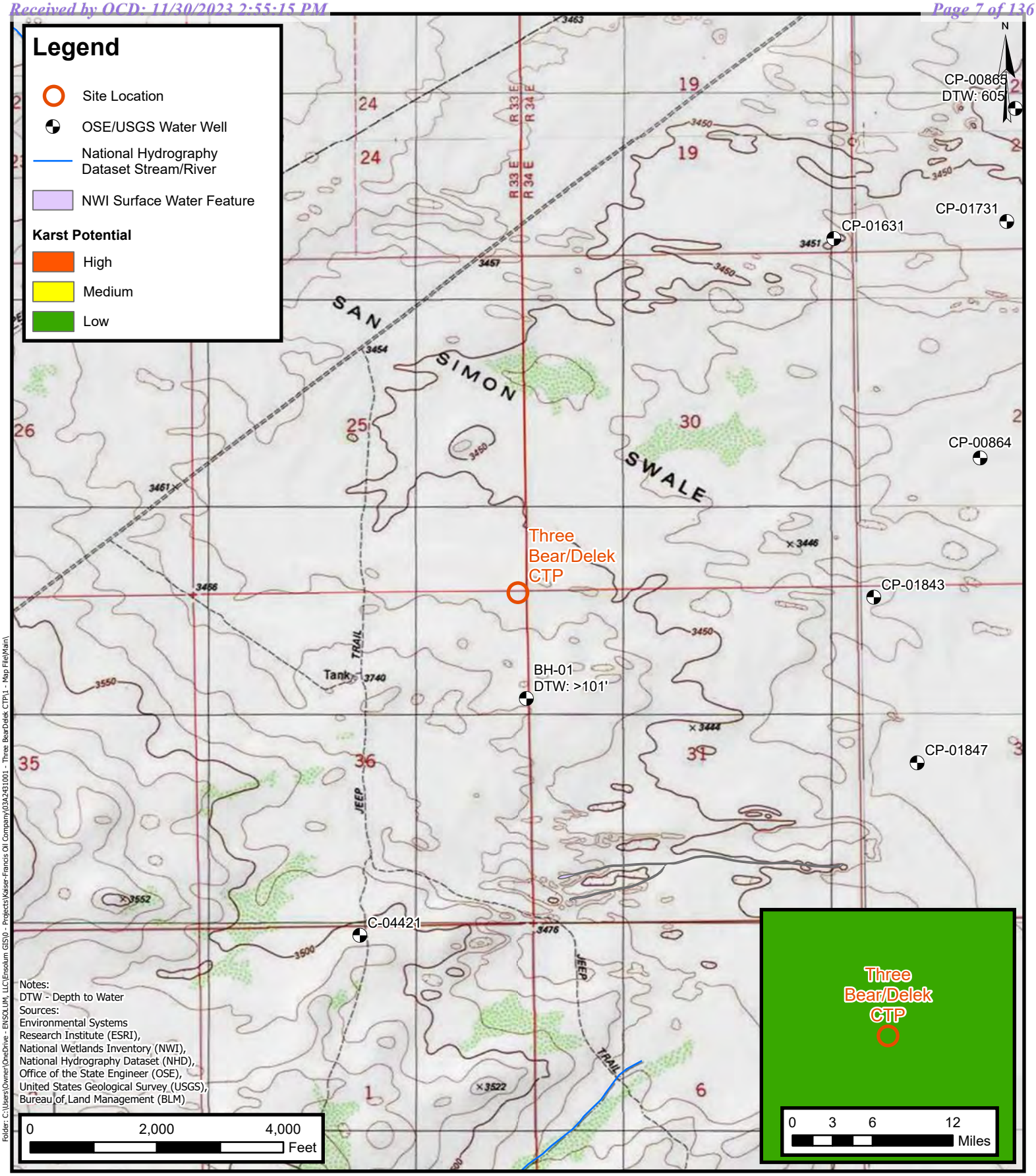
FIGURES



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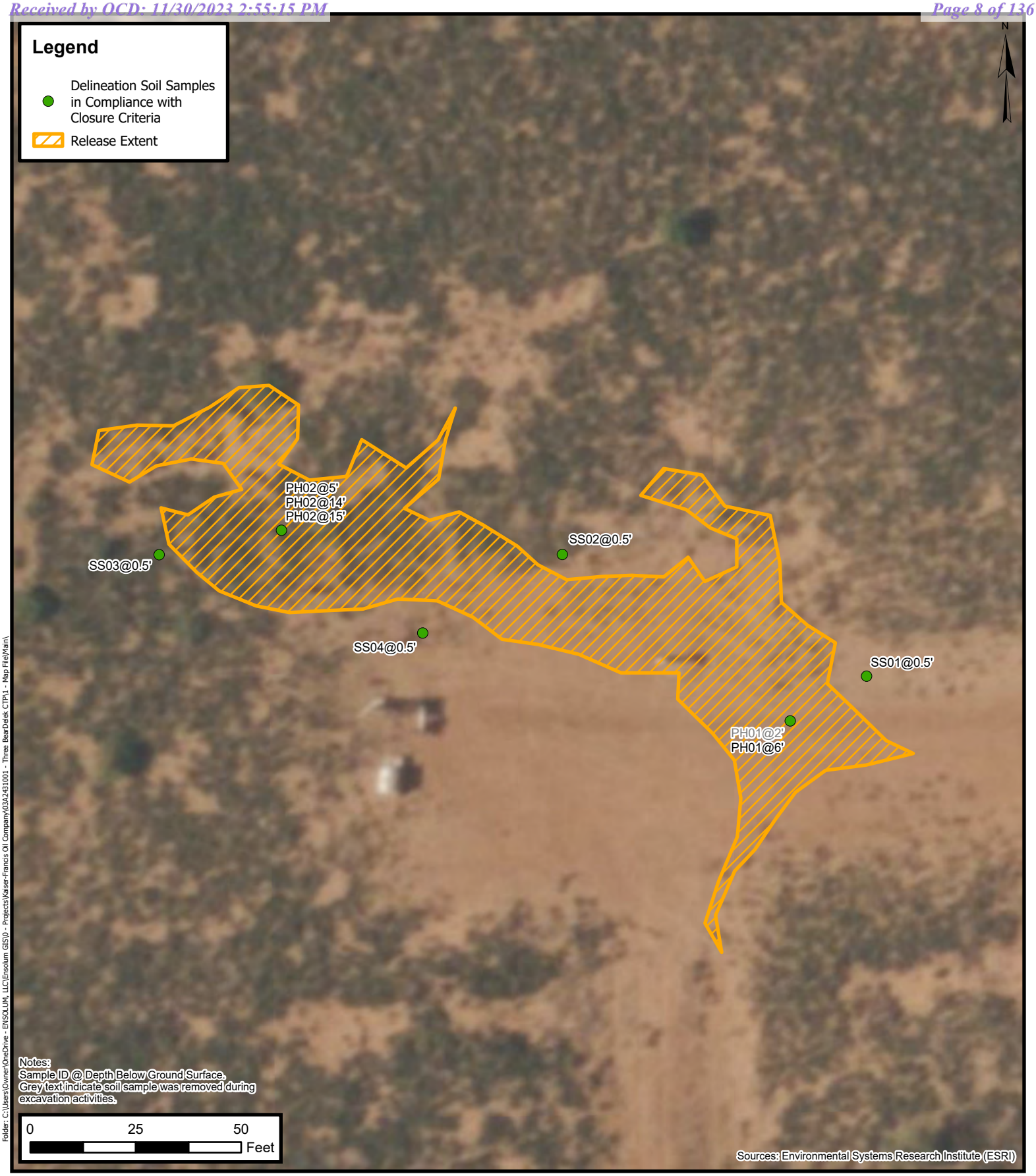
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Kaiser-Francis Oil Company
Three Bear/Delek CTP
Incident Number: nAPP2324454223
Unit A, Section 36, Township 22S, Range 33E
Lea Co., New Mexico

FIGURE 1



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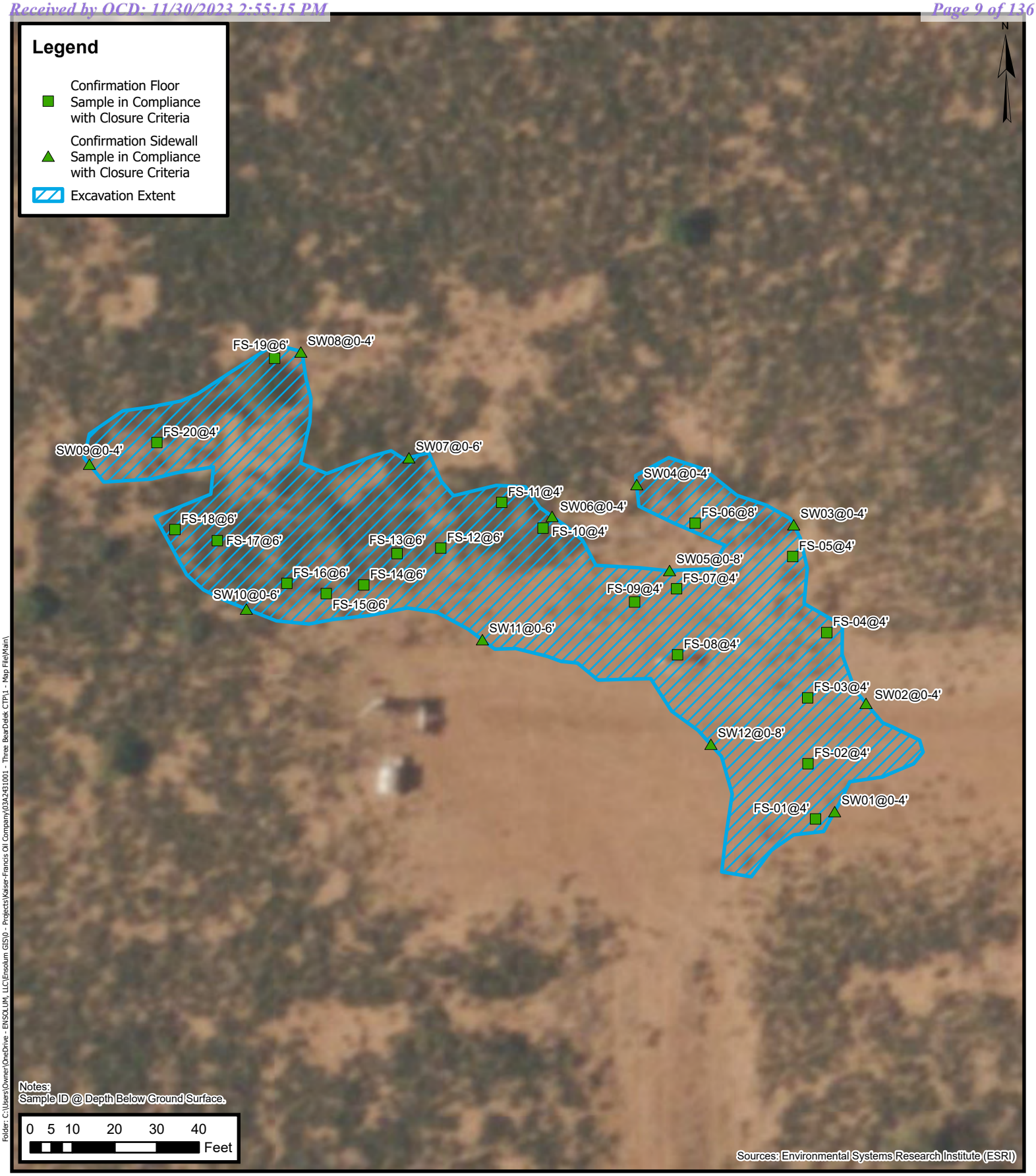
Delineation Soil Sample Locations

Kaiser-Francis Oil Company
Three Bear/Delek CTP
Incident Number: nAPP2324454223
Unit A, Section 36, Township 22S, Range 33E
Lea Co, New Mexico

FIGURE 2



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Confirmation Soil Sample Locations

Kaiser-Francis Oil Company
Three Bear/Delek CTP
Incident Number: nAPP2324454223
Unit A, Section 36, Township 22S, Range 33E
Lea Co., New Mexico

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Three Bear/Delek CTP
Kaiser-Francis Oil Company
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Delineation Soil Samples										
SS01	9/13/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS02	9/13/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS03	9/13/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS04	9/13/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
~~PH01~~	~~9/13/2023~~	~~2~~	~~<0.0250~~	~~<0.0250~~	~~<20.0~~	~~<25.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~1,910~~
PH01	9/13/2023	6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	60.0
PH02	9/13/2023	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	2,970
PH02	9/13/2023	14	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	363
PH02	9/13/2023	15	<0.0250	<0.02450	<20.0	<25.0	<50.0	<50.0	<50.0	96.9

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*

** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

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TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
Three Bear/Delek CTP
Kaiser-Francis Oil Company
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Excavation Floor Soil Samples										
FS01	9/25/2023	4	<0.025	<0.025	<20.0	44.8	<50.0	44.8	45	324
FS02	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	845
FS03	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	442
FS04	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	984
FS05	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	1,390
FS06	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	241
FS07	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	3,160
FS08	9/25/2023	8	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	705
FS09	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	1,120
FS10	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	397
FS11	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	2,030
FS12	9/25/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	5,280
FS13	9/25/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	4,210
FS14	9/25/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	3,810
FS15	9/25/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	2,530
FS16	9/25/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	3,940
FS17	9/25/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	2,980
FS18	9/25/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	2,580
FS19	9/25/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	3,200
FS20	9/25/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	936

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*

** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

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TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
Three Bear/Delek CTP
Kaiser-Francis Oil Company
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Excavation Sidewall Soil Samples										
SW01	9/25/2023	0-4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	39.3
SW02	9/25/2023	0-4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	115
SW03	9/25/2023	0-4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SW04	9/25/2023	0-4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	210
SW05	9/25/2023	0-8	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SW06	9/25/2023	0-4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SW07	9/25/2023	0-6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	237
SW08	9/25/2023	0-4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	52.5
SW09	9/25/2023	0-4	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	168
SW10	9/25/2023	0-6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	37.5
SW11	9/25/2023	0-6	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	118
SW12	9/25/2023	0-8	<0.025	<0.025	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

GRO: Gasoline Range Organics

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ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*

** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

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APPENDIX A

Form C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	nAPP2324454223
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.355305 Longitude -103.517979
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Three Bear / Delek CTP	Site Type Oil Well Pad
Date Release Discovered 09/01/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	36	22S	33E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 337 bbls	Volume Recovered (bbls) 100 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Leaking gasket

$$BBL\ Estimate = \left(Saturated\ Soil\ Volume\ (ft^3)\ /4.21\ \left(\frac{ft^3}{bbl} equivalent\right)\right)\ x\ Estimated\ Soil\ Porosity\ (\%) + Recovered\ Fluids\ (bbl)$$

((6,657.8 sq. ft x 0.33ft) / 4.21)) x 0.45 + 100 bbls = 337.2 bbls

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2324454223
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 09/01/2023 via web portal.	

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Hutton Andrew Title: EHS Representative

Signature: Date: 09/01/2023

email: huttona@kfoc.net Telephone: 918-491-4615

OCD Only

Received by: Date:

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2324454223
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?	> 101 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2324454223
District RP	
Facility ID	
Application ID	

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

Printed Name: Hutton Andrew Title: EHS Representative

Signature: Date: 09/01/2023

email: huttona@kfoc.net Telephone: 918-491-4615

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2324454223
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Hutton Andrew Title: EHS Representative

Signature: Date: 09/01/2023

email: huttona@kfoc.net Telephone: 918-491-4615

OCD Only

Received by: Date:

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

Closure Approved by: Nelson Velez Date: 03/13/2024

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

ENSOLUM

APPENDIX B

Referenced Well Records

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

November 15, 2023

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1982 Pod-1
To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP-1982 Pod-1.

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

Sincerely,

Lucas Middleton

Enclosures: as noted above

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1 (TW-1)	N/A	CP-1982

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Kalser-Francis Oil Company	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6733 S Yale Ave	Tulsa	OK	74136

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	21	2.39	N
	LONGITUDE	103	31	3.62	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Sec. 36 T22S R33E. NMPM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
11/07/2023	11/07/2023	Temporary Well Material	±101	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 11/15/2023

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	101	±6.25	Soil Boring	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

FOR OSE INTERNAL USE

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

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

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	14	14	Sand, medium/fine grained, poorly graded, light brown	Y ✓ N	
14	101	87	Sand, fine grained, poorly graded, some caliche, tan	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 11/15/2023

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

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

PLUGGING RECORD

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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1982 POD-1

Well owner: Kalser-Francis Oil Company Phone No.: 580-307-7363

Mailing address: 6733 S Yale Ave

City: Tulsa State: OK Zip code: 74136

II. WELL PLUGGING INFORMATION:

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

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

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

4) Date well plugging began: 11/15/2023 Date well plugging concluded: 11/15/2023

5) GPS Well Location: Latitude: 32 deg, 21 min, 2.39 sec
Longitude: 103 deg, 31 min, 3.62 sec, WGS 84

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

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

8) Date well plugging plan of operations was approved by the State Engineer: 11/3/2023

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

OCD Hobbs NOV 15 2023 PM 03:35

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
0-10'	0-10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
10'-101'	10'-101' Drill Cuttings	Approx. 145 gallons	145 gallons	Boring	

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

III. SIGNATURE:

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

Jack Atkins — Signature of Well Driller

11/15/2023 — Date

Version: September 8, 2009
Page 2 of 2

2023-11-15-CP-1982-WR-20--forsign

Final Audit Report 2023-11-15

Created:	2023-11-15
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAgXoqvqb1F5Kp5Miq9jl2klLMIQj1dycz

"2023-11-15-CP-1982-WR-20--forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2023-11-15 - 9:37:13 PM GMT- IP address: 24.40.85.191

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2023-11-15 - 9:37:55 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2023-11-15 - 10:35:24 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2023-11-15 - 10:37:23 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2023-11-15 - 10:37:23 PM GMT

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: PH01	Date: 09/05/2023
	Site Name: Three Bear/Delek CTP	
	Incident Number: nAPP2324454223	
	Job Number: 03A2431001	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Chad Hamilton	Method: Backhoe
Coordinates:32.3554278, -103.517933	Hole Diameter: 2'	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	2,794		N	PH01	2'	2	SP	Medium, red, moist, non-plastic, cohesivie, massive, uniform, medium grained sand, no visible staining, and no odor.
M	3,455		N	PH01	3'	3	SP	
M	1,024		N	PH01	4'	4	SP	
M	1,024		N	PH01	5'	5	SP	
M	ND		N	PH01	6'	6		

Total Depth: 6 ft bgs

ENSOLUM

	Sample Name: PH02	Date: 09/05/2023
	Site Name: Three Bear/Delek CTP	
	Incident Number: nAPP2324454223	
	Job Number: 03A2431001	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Chad Hamilton	Method: Backhoe
Coordinates:32.3554278, -103.517933	Hole Diameter: 2'	Total Depth: 15'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	9,424		N	PH02	5'	5	SP	Medium, red, moist, non-plastic, cohesivie, massive, uniform, medium grained sand, no visible staining, strong odor
M	8,013		N	PH02	6'	6	SP	
M	5,812		N	PH02	7'	7	SP	
M	7,392		N	PH02	8'	8	SP	
M	8,013		N	PH02	9'	9	SP	
M	6,300		N	PH02	10'	10	SP	
M	6,300		N	PH02	11'	11	SP	
M	4,964		N	PH02	12'	12	SP	
M	2,436		N	PH02	13'	13	SP	
M	515		N	PH02	14'	14	SP	
M	ND		N	PH02	15'	15	SP	

Total Depth: 15 ft bgs

ENSOLUM

APPENDIX D

NMSLO Cultural Resources Cover Sheet

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

(A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
(B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
(C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number: Acknowledgment-Only:

Lease Analyst:

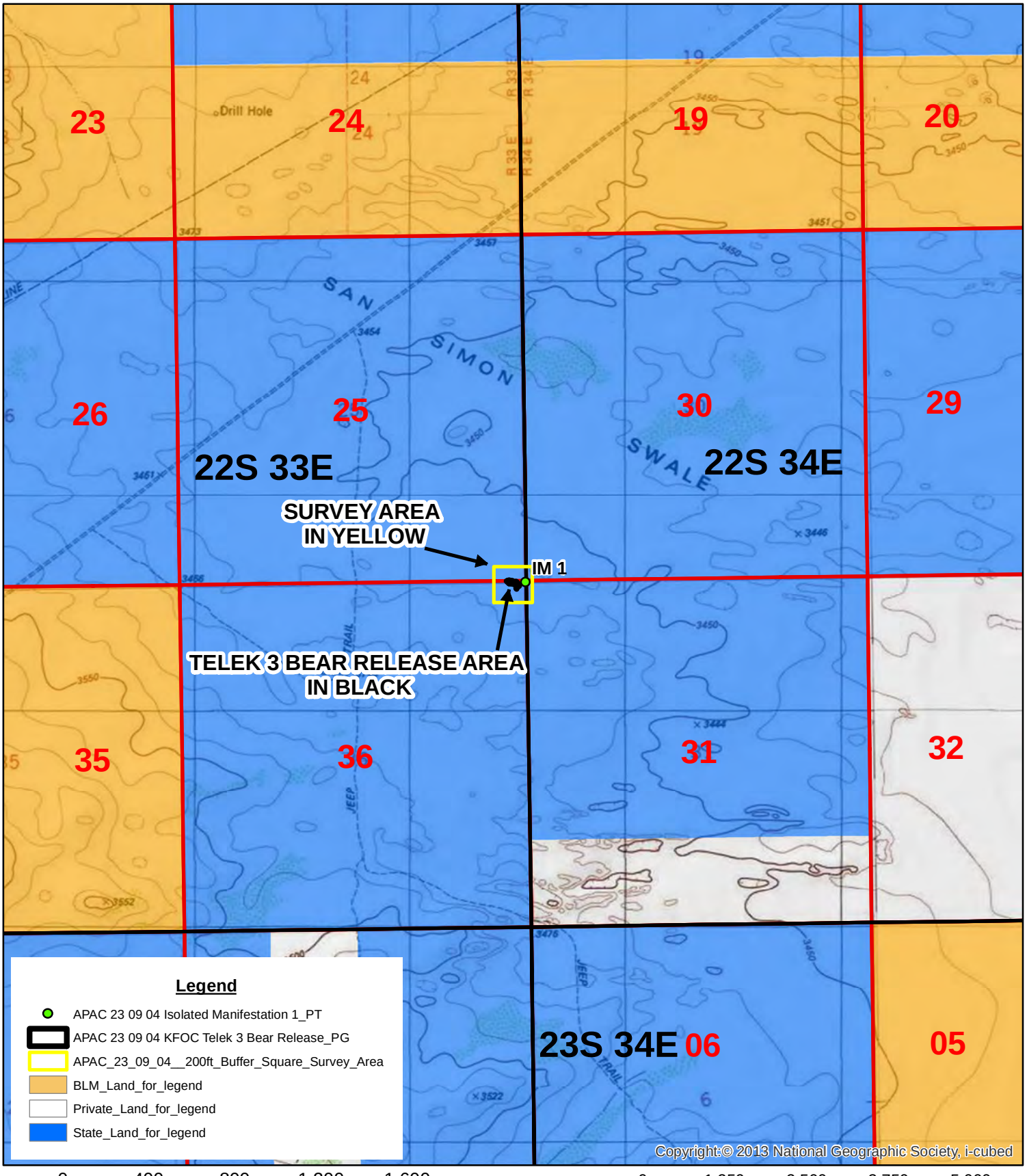
Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

Project Map
APAC 23-09-04

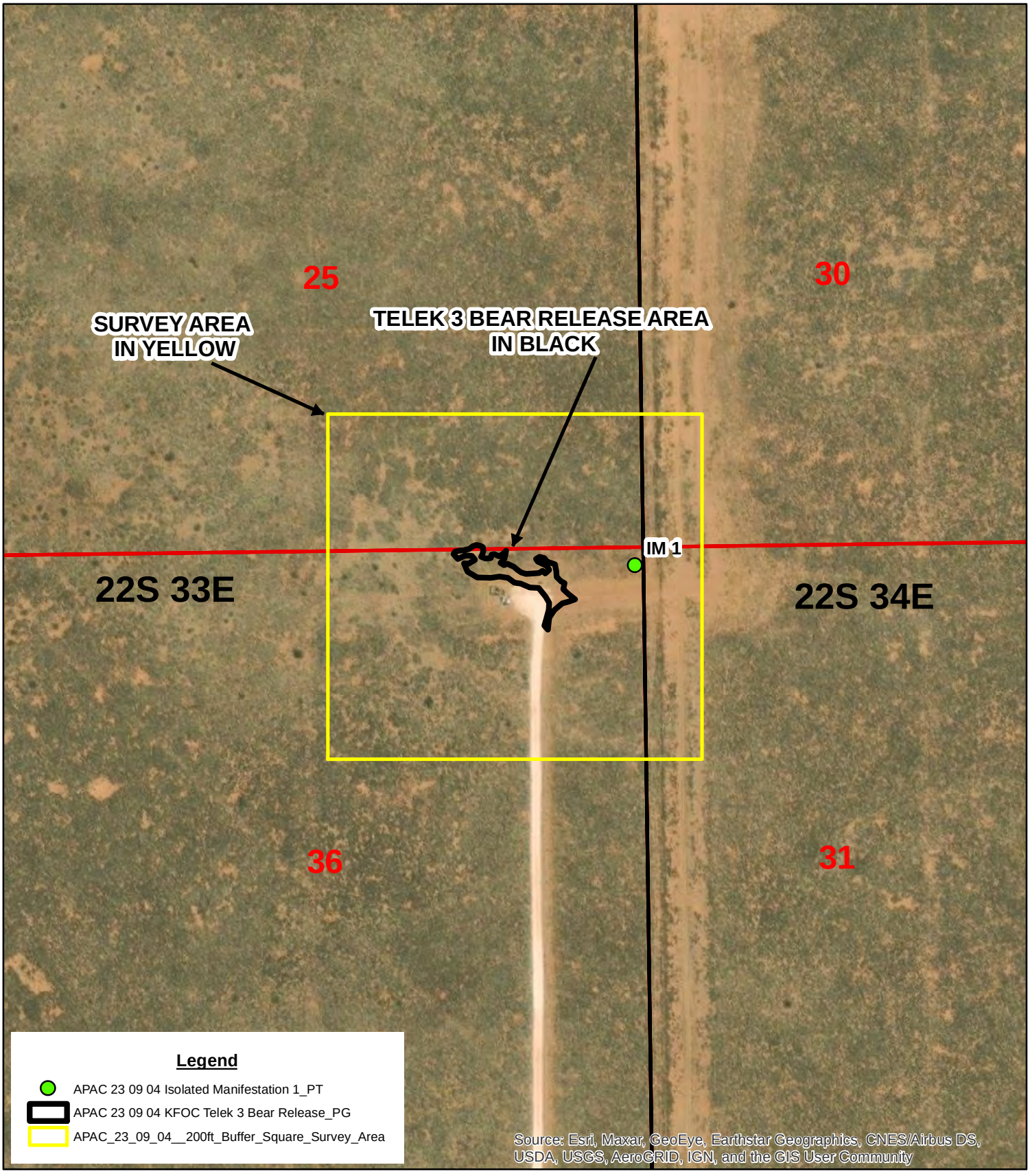
Scale 1:24,000



A location map of theTelek 3 Bear Accidental Release Area for Kaiser Francis Oil Company
Located in section 36 in T 22S R 33E; Lea County, New Mexico.
Map Reference; TIP TOP WELLS, NM (1984) 32103-C5

Detail Project Map
APAC 23-09-04

Scale 1:2,500



A location map of theTelek 3 Bear Accidental Release Area for Kaiser Francis Oil Company
Located in section 36 in T 22S R 33E; Lea County, New Mexico.
Map Reference; TIP TOP WELLS, NM (1984) 32103-C5

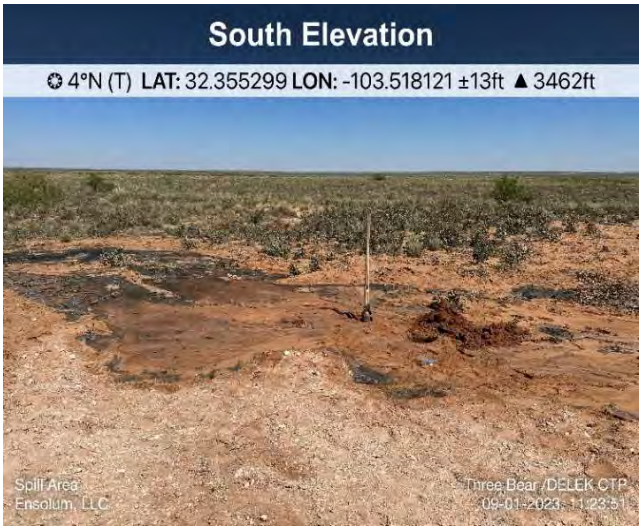
ENSOLUM

APPENDIX E

Photographic Log

ENSOLUM

Photographic Log
Kaiser- Francis Oil Company
Three Bear/ Delek CTP
nAPP2324454223



Photograph 1 Date: 09/01/2023
Description: Initial Spill Area
View: South

Photograph 2 Date: 9/5/2023
Description: Excavation
View: Southwest

Photograph 3 Date: 9/7/2023
Description: Excavation
View: Southwest

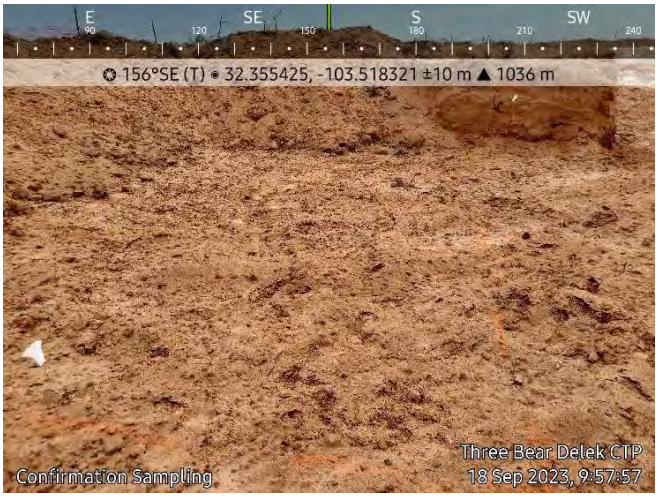
Photograph 4 Date: 9/7/2023
Description: Excavation
View: Southeast

ENSOLUM

Photographic Log
Kaiser- Francis Oil Company
Three Bear/ Delek CTP
nAPP2324454223

Photograph 5 Date: 09/18/2023
Description: Excavation
View: Northwest

Photograph 6 Date: 9/18/2023
Description: Excavation
View: East



Photograph 7 Date: 9/18/2023
Description: Excavation
View: Southeast

Photograph 8 Date:9/18/2023
Description: Excavation
View: Northwest

ENSOLUM

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name:	Three Bear/Delek CTP
Work Order:	E309048
Job Number:	23078-0001
Received:	9/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/23

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

Date Reported: 9/13/23

Ashley Giovengo
1224 Standpipe Rd
Carlsbad, NM 88220

Project Name: Three Bear/Delek CTP
Workorder: E309048
Date Received: 9/7/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2023 8:15:00AM, under the Project Name: Three Bear/Delek CTP.

The analytical test results summarized in this report with the Project Name: Three Bear/Delek CTP apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Table of Contents

Sample Summary

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/13/23 11:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0.5'	E309048-01A	Soil	09/05/23	09/07/23	Glass Jar, 4 oz.
SS02 - 0.5'	E309048-02A	Soil	09/06/23	09/07/23	Glass Jar, 4 oz.
SS03 - 0.5'	E309048-03A	Soil	09/05/23	09/07/23	Glass Jar, 4 oz.
SS04 - 0.5'	E309048-04A	Soil	09/05/23	09/07/23	Glass Jar, 4 oz.
PH01 - 2'	E309048-05A	Soil	09/05/23	09/07/23	Glass Jar, 4 oz.
PH01 - 6'	E309048-06A	Soil	09/05/23	09/07/23	Glass Jar, 4 oz.
PH02 - 5'	E309048-07A	Soil	09/05/23	09/07/23	Glass Jar, 4 oz.
PH02 - 14'	E309048-08A	Soil	09/05/23	09/07/23	Glass Jar, 4 oz.
PH02 - 15'	E309048-09A	Soil	09/05/23	09/07/23	Glass Jar, 4 oz.

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

SS01 - 0.5'

E309048-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Benzene	ND	0.0250	1	09/08/23	09/09/23	
Ethylbenzene	ND	0.0250	1	09/08/23	09/09/23	
Toluene	ND	0.0250	1	09/08/23	09/09/23	
o-Xylene	ND	0.0250	1	09/08/23	09/09/23	
p,m-Xylene	ND	0.0500	1	09/08/23	09/09/23	
Total Xylenes	ND	0.0250	1	09/08/23	09/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/23	09/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.1 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2337022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane		*98.5 %*	*50-200*	*09/11/23*	*09/12/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2337014
Chloride	ND	20.0	1	09/11/23	09/11/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

SS02 - 0.5'

E309048-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Benzene	ND	0.0250	1	09/08/23	09/09/23	
Ethylbenzene	ND	0.0250	1	09/08/23	09/09/23	
Toluene	ND	0.0250	1	09/08/23	09/09/23	
o-Xylene	ND	0.0250	1	09/08/23	09/09/23	
p,m-Xylene	ND	0.0500	1	09/08/23	09/09/23	
Total Xylenes	ND	0.0250	1	09/08/23	09/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/23	09/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.8 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2337022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*09/11/23*	*09/12/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2337014
Chloride	ND	20.0	1	09/11/23	09/12/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

SS03 - 0.5'

E309048-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Benzene	ND	0.0250	1	09/08/23	09/09/23	
Ethylbenzene	ND	0.0250	1	09/08/23	09/09/23	
Toluene	ND	0.0250	1	09/08/23	09/09/23	
o-Xylene	ND	0.0250	1	09/08/23	09/09/23	
p,m-Xylene	ND	0.0500	1	09/08/23	09/09/23	
Total Xylenes	ND	0.0250	1	09/08/23	09/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/23	09/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.2 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2337022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane		*108 %*	*50-200*	*09/11/23*	*09/12/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2337014
Chloride	ND	20.0	1	09/11/23	09/12/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

SS04 - 0.5'

E309048-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Benzene	ND	0.0250	1	09/08/23	09/09/23	
Ethylbenzene	ND	0.0250	1	09/08/23	09/09/23	
Toluene	ND	0.0250	1	09/08/23	09/09/23	
o-Xylene	ND	0.0250	1	09/08/23	09/09/23	
p,m-Xylene	ND	0.0500	1	09/08/23	09/09/23	
Total Xylenes	ND	0.0250	1	09/08/23	09/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/23	09/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.8 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2337022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane		*100 %*	*50-200*	*09/11/23*	*09/12/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2337014
Chloride	ND	20.0	1	09/11/23	09/12/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

PH01 - 2'

E309048-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Benzene	ND	0.0250	1	09/08/23	09/09/23	
Ethylbenzene	ND	0.0250	1	09/08/23	09/09/23	
Toluene	ND	0.0250	1	09/08/23	09/09/23	
o-Xylene	ND	0.0250	1	09/08/23	09/09/23	
p,m-Xylene	ND	0.0500	1	09/08/23	09/09/23	
Total Xylenes	ND	0.0250	1	09/08/23	09/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/23	09/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.0 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2337022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane		*99.8 %*	*50-200*	*09/11/23*	*09/12/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2337014
Chloride	**1910**	40.0	2	09/11/23	09/12/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

PH01 - 6'

E309048-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Benzene	ND	0.0250	1	09/08/23	09/09/23	
Ethylbenzene	ND	0.0250	1	09/08/23	09/09/23	
Toluene	ND	0.0250	1	09/08/23	09/09/23	
o-Xylene	ND	0.0250	1	09/08/23	09/09/23	
p,m-Xylene	ND	0.0500	1	09/08/23	09/09/23	
Total Xylenes	ND	0.0250	1	09/08/23	09/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/23	09/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.9 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2337022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*09/11/23*	*09/12/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2337014
Chloride	**60.0**	20.0	1	09/11/23	09/12/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

PH02 - 5'

E309048-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Benzene	ND	0.0250	1	09/08/23	09/09/23	
Ethylbenzene	ND	0.0250	1	09/08/23	09/09/23	
Toluene	ND	0.0250	1	09/08/23	09/09/23	
o-Xylene	ND	0.0250	1	09/08/23	09/09/23	
p,m-Xylene	ND	0.0500	1	09/08/23	09/09/23	
Total Xylenes	ND	0.0250	1	09/08/23	09/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/23	09/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.5 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2337022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane		*103 %*	*50-200*	*09/11/23*	*09/12/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2337014
Chloride	**2970**	40.0	2	09/11/23	09/12/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

PH02 - 14'

E309048-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Benzene	ND	0.0250	1	09/08/23	09/09/23	
Ethylbenzene	ND	0.0250	1	09/08/23	09/09/23	
Toluene	ND	0.0250	1	09/08/23	09/09/23	
o-Xylene	ND	0.0250	1	09/08/23	09/09/23	
p,m-Xylene	ND	0.0500	1	09/08/23	09/09/23	
Total Xylenes	ND	0.0250	1	09/08/23	09/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/23	09/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.4 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2337022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*09/11/23*	*09/12/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2337014
Chloride	**363**	20.0	1	09/11/23	09/12/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

PH02 - 15'

E309048-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Benzene	ND	0.0250	1	09/08/23	09/09/23	
Ethylbenzene	ND	0.0250	1	09/08/23	09/09/23	
Toluene	ND	0.0250	1	09/08/23	09/09/23	
o-Xylene	ND	0.0250	1	09/08/23	09/09/23	
p,m-Xylene	ND	0.0500	1	09/08/23	09/09/23	
Total Xylenes	ND	0.0250	1	09/08/23	09/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2336084
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/23	09/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.8 %*	*70-130*	*09/08/23*	*09/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2337022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane		*105 %*	*50-200*	*09/11/23*	*09/12/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2337014
Chloride	**96.9**	20.0	1	09/11/23	09/12/23	

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2336084-BLK1)									Prepared: 09/08/23 Analyzed: 09/09/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.34*		*8.00*		*91.8*	*70-130*			
LCS (2336084-BS1)									Prepared: 09/08/23 Analyzed: 09/09/23
Benzene	4.93	0.0250	5.00		98.7	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.42*		*8.00*		*92.7*	*70-130*			
Matrix Spike (2336084-MS1)				**Source: E309048-01**					Prepared: 09/08/23 Analyzed: 09/09/23
Benzene	4.75	0.0250	5.00	ND	95.1	54-133			
Ethylbenzene	4.79	0.0250	5.00	ND	95.7	61-133			
Toluene	4.91	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.51*		*8.00*		*93.8*	*70-130*			
Matrix Spike Dup (2336084-MSD1)				**Source: E309048-01**					Prepared: 09/08/23 Analyzed: 09/09/23
Benzene	4.81	0.0250	5.00	ND	96.3	54-133	1.26	20	
Ethylbenzene	4.88	0.0250	5.00	ND	97.5	61-133	1.89	20	
Toluene	4.99	0.0250	5.00	ND	99.8	61-130	1.59	20	
o-Xylene	5.02	0.0250	5.00	ND	100	63-131	1.94	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	1.83	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	1.87	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.48*		*8.00*		*93.5*	*70-130*			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2336084-BLK1)									Prepared: 09/08/23 Analyzed: 09/09/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.85*		*8.00*		*85.6*	*70-130*			
LCS (2336084-BS2)									Prepared: 09/08/23 Analyzed: 09/09/23
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.99*		*8.00*		*87.4*	*70-130*			
Matrix Spike (2336084-MS2)				**Source: E309048-01**					Prepared: 09/08/23 Analyzed: 09/09/23
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.00*		*8.00*		*87.5*	*70-130*			
Matrix Spike Dup (2336084-MSD2)				**Source: E309048-01**					Prepared: 09/08/23 Analyzed: 09/09/23
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.5	70-130	4.53	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.97*		*8.00*		*87.2*	*70-130*			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2337022-BLK1)									Prepared: 09/11/23 Analyzed: 09/11/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.2*		*50.0*		*104*	*50-200*			
LCS (2337022-BS1)									Prepared: 09/11/23 Analyzed: 09/11/23
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	*50.3*		*50.0*		*101*	*50-200*			
Matrix Spike (2337022-MS1)				**Source: E309034-02**					Prepared: 09/11/23 Analyzed: 09/11/23
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	*51.0*		*50.0*		*102*	*50-200*			
Matrix Spike Dup (2337022-MSD1)				**Source: E309034-02**					Prepared: 09/11/23 Analyzed: 09/11/23
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132	1.15	20	
Surrogate: n-Nonane	*54.0*		*50.0*		*108*	*50-200*			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 11:06:46AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2337014-BLK1)									Prepared: 09/11/23 Analyzed: 09/11/23
Chloride	ND	20.0							
LCS (2337014-BS1)									Prepared: 09/11/23 Analyzed: 09/11/23
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2337014-MS1)				**Source: E309048-01**					Prepared: 09/11/23 Analyzed: 09/11/23
Chloride	248	20.0	250	ND	99.1	80-120			
Matrix Spike Dup (2337014-MSD1)				**Source: E309048-01**					Prepared: 09/11/23 Analyzed: 09/12/23
Chloride	250	20.0	250	ND	99.8	80-120	0.756	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:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/13/23 11:06

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
TAR319310

Chain of Custody

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO#	Job Number
E309048	23078-0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
10:42	9/5/2023	Soil	1 Jar	SS01 - 0.5'	1						X		
10:45	9/5/2023	Soil	1 Jar	SS02 - 0.5'	2						X		
12:39	9/5/2023	Soil	1 Jar	SS03 - 0.5'	3						X		
12:41	9/5/2023	Soil	1 Jar	SS04 - 0.5'	4						X		
9:58	9/5/2023	Soil	1 Jar	PH01 - 2'	5						X		
10:52	9/5/2023	Soil	1 Jar	PH01 - 6'	6						X		
10:01	9/5/2023	Soil	1 Jar	PH02 - 5'	7						X		
13:27	9/5/2023	Soil	1 Jar	PH02 - 14'	8						X		
13:30	9/5/2023	Soil	1 Jar	PH02 - 15'	9						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/06/23	10:32	Michelle Gonzales	9-6-23	1038
Michelle Gonzales	9-6-23	1530	Andrew Messo	9.6.23	1600
Andrew Messo	9.7.23	0100	Caitlin Man	9/7/23	8:15

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 9/7/2023 9:57:36AM

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:	09/07/23 08:15	Work Order ID:	E309048
Phone:	(505) 382-1211	Date Logged In:	09/07/23 09:48	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	09/13/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
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 filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name:	Three Bear/Delek CTP
Work Order:	E309135
Job Number:	23078-0001
Received:	9/19/2023

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/28/23

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

Date Reported: 11/28/23

Ashley Giovengo
1224 Standpipe Rd
Carlsbad, NM 88220

Project Name: Three Bear/Delek CTP
Workorder: E309135
Date Received: 9/19/2023 8:20:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/19/2023 8:20:00AM, under the Project Name: Three Bear/Delek CTP.

The analytical test results summarized in this report with the Project Name: Three Bear/Delek CTP apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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

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

Field Offices:

Southern New Mexico Area

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Cell: 505-320-4759
ljarboe@envirotech-inc.com

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Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/23 09:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 4'	E309135-01A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
FS02 - 4'	E309135-02A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
FS03 - 4'	E309135-03A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
FS04 - 4'	E309135-04A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
FS05 - 4'	E309135-05A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
FS06 - 4'	E309135-06A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
FS07 - 4'	E309135-07A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
FS08 - 8'	E309135-08A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
FS09 - 4'	E309135-09A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
SW01 0-4'	E309135-10A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
SW02 0-4'	E309135-11A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
SW03 0-4'	E309135-12A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
SW04 0-4'	E309135-13A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
SW05 0-8'	E309135-14A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
SW10 0-6'	E309135-15A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.
SW11 0-6'	E309135-16A	Soil	09/15/23	09/19/23	Glass Jar, 2 oz.

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

FS01 - 4'

E309135-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	**44.8**	25.0	1	09/20/23	09/20/23	T17
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*91.6 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**324**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

FS02 - 4'

E309135-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*88.8 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**845**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

FS03 - 4'

E309135-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*92.6 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*92.6 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*89.5 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**442**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

FS04 - 4'

E309135-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*91.9 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**984**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

FS05 - 4'

E309135-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*96.1 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*96.1 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*83.6 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**1390**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

FS06 - 4'

E309135-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*92.1 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**241**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

FS07 - 4'

E309135-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*87.0 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**3160**	40.0	2	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

FS08 - 8'

E309135-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*92.6 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*92.6 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*90.2 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**705**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

FS09 - 4'

E309135-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*90.8 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**1120**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

SW01 0-4'

E309135-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*88.2 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**39.3**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

SW02 0-4'

E309135-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*92.1 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**115**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

SW03 0-4'

E309135-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*88.9 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	ND	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

SW04 0-4'

E309135-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*87.6 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**210**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

SW05 0-8'

E309135-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/20/23	
Toluene	ND	0.0250	1	09/19/23	09/20/23	
o-Xylene	ND	0.0250	1	09/19/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/20/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/20/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*09/19/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*85.8 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	ND	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

SW10 0-6'

E309135-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/20/23	
Toluene	ND	0.0250	1	09/19/23	09/20/23	
o-Xylene	ND	0.0250	1	09/19/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/20/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/20/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*09/19/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*88.7 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**37.5**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

SW11 0-6'

E309135-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Benzene	ND	0.0250	1	09/19/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/20/23	
Toluene	ND	0.0250	1	09/19/23	09/20/23	
o-Xylene	ND	0.0250	1	09/19/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/20/23	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*09/19/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/20/23	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*09/19/23*	*09/20/23*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*09/19/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338063
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*90.8 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2338074
Chloride	**118**	20.0	1	09/21/23	09/22/23	

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338038-BLK1)									Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.529*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.470*		*0.500*		*93.9*	*70-130*			
Surrogate: Toluene-d8	*0.502*		*0.500*		*100*	*70-130*			
LCS (2338038-BS1)									Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	2.34	0.0250	2.50		93.6	70-130			
Ethylbenzene	2.35	0.0250	2.50		94.0	70-130			
Toluene	2.29	0.0250	2.50		91.5	70-130			
o-Xylene	2.42	0.0250	2.50		96.6	70-130			
p,m-Xylene	4.74	0.0500	5.00		94.8	70-130			
Total Xylenes	7.16	0.0250	7.50		95.4	70-130			
Surrogate: Bromofluorobenzene	*0.531*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*94.9*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*99.9*	*70-130*			
Matrix Spike (2338038-MS1)				**Source: E309135-02**					Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	2.49	0.0250	2.50	ND	99.5	48-131			
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135			
Toluene	2.50	0.0250	2.50	ND	99.9	48-130			
o-Xylene	2.83	0.0250	2.50	ND	113	43-135			
p,m-Xylene	5.54	0.0500	5.00	ND	111	43-135			
Total Xylenes	8.36	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	*0.543*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: Toluene-d8	*0.508*		*0.500*		*102*	*70-130*			
Matrix Spike Dup (2338038-MSD1)				**Source: E309135-02**					Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	2.45	0.0250	2.50	ND	98.1	48-131	1.40	23	
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135	3.52	27	
Toluene	2.42	0.0250	2.50	ND	96.9	48-130	3.07	24	
o-Xylene	2.50	0.0250	2.50	ND	99.9	43-135	12.4	27	
p,m-Xylene	4.86	0.0500	5.00	ND	97.1	43-135	13.1	27	
Total Xylenes	7.35	0.0250	7.50	ND	98.0	43-135	12.9	27	
Surrogate: Bromofluorobenzene	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*99.9*	*70-130*			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338038-BLK1)									Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.529*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.470*		*0.500*		*93.9*	*70-130*			
Surrogate: Toluene-d8	*0.502*		*0.500*		*100*	*70-130*			
LCS (2338038-BS2)									Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	*0.530*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.459*		*0.500*		*91.8*	*70-130*			
Surrogate: Toluene-d8	*0.498*		*0.500*		*99.5*	*70-130*			
Matrix Spike (2338038-MS2)				**Source: E309135-02**					Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	55.4	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	*0.543*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.476*		*0.500*		*95.1*	*70-130*			
Surrogate: Toluene-d8	*0.507*		*0.500*		*101*	*70-130*			
Matrix Spike Dup (2338038-MSD2)				**Source: E309135-02**					Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	53.8	20.0	50.0	ND	108	70-130	2.87	20	
Surrogate: Bromofluorobenzene	*0.538*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.5*	*70-130*			
Surrogate: Toluene-d8	*0.505*		*0.500*		*101*	*70-130*			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338063-BLK1)									Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.3*		*50.0*		*92.6*	*50-200*			
LCS (2338063-BS1)									Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	243	25.0	250		97.0	38-132			
Surrogate: n-Nonane	*45.7*		*50.0*		*91.4*	*50-200*			
Matrix Spike (2338063-MS1)				**Source: E309135-15**					Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.4	38-132			
Surrogate: n-Nonane	*43.4*		*50.0*		*86.7*	*50-200*			
Matrix Spike Dup (2338063-MSD1)				**Source: E309135-15**					Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.1	38-132	1.78	20	
Surrogate: n-Nonane	*43.6*		*50.0*		*87.1*	*50-200*			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:38:11AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338074-BLK1)									Prepared: 09/21/23 Analyzed: 09/22/23
Chloride	ND	20.0							
LCS (2338074-BS1)									Prepared: 09/21/23 Analyzed: 09/22/23
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2338074-MS1)				**Source: E309135-01**					Prepared: 09/21/23 Analyzed: 09/22/23
Chloride	532	20.0	250	324	83.2	80-120			
Matrix Spike Dup (2338074-MSD1)				**Source: E309135-01**					Prepared: 09/21/23 Analyzed: 09/22/23
Chloride	525	20.0	250	324	80.1	80-120	1.48	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:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/23 09:38

T17	The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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
TAR319310

Chain of Custody

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO# E309135 | Job Number 23078.0001

TAT: 1D | 2D | 3D | Standard: X

EPA Program: CWA | SDWA | RCRA

State: NM: X | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
13:19	9/15/2023	Soil	1	FS01 - 4'	1						X		
13:22	9/15/2023	Soil	1	FS02 - 4'	2						X		
13:29	9/15/2023	Soil	1	FS03 - 4'	3						X		
13:30	9/15/2023	Soil	1	FS04 - 4'	4						X		
13:33	9/15/2023	Soil	1	FS05 - 4'	5						X		
11:56	9/15/2023	Soil	1	FS06 - 4'	6						X		
10:12	9/15/2023	Soil	1	FS07 - 4'	7						X		
11:55	9/15/2023	Soil	1	FS08 - [illegible]	8						X		
13:35	9/15/2023	Soil	1	FS09 - 4'	9						X		
12:32	9/15/2023	Soil	1	WS01 - 2'	10						X		

Additional Instructions: **Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net**

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/18/	1130	Michelle Lang	9-18-23	1130
Michelle Lang	9-18-23	1645	Andrew Mesa	9.18.23	1730
Andrew Mesa	9.18.23	2400	Caitlin Mason	9.19.23	8:20

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

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

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

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

envirotech

Project Information
TAR319310

Chain of Custody

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO#	Job Number
E309135	23078.0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
12:43	9/15/2023	Soil	1	WS02 - 2'	11						X		
12:32	9/15/2023	Soil	1	WS03 - 2'	12						X		
12:36	9/15/2023	Soil	1	WS04 - 2'	13						X		
12:40	9/15/2023	Soil	1	WS05 - 2'	14						X		
12:37	9/15/2023	Soil	1	WS10 - 2'	15						X		
12:27	9/15/2023	Soil	1	WS11 - 2'	16						X		

Analysis and Method

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/15/23	1130	Michelle Gaye	9-18-23	1130
Michelle Gaye	9-18-23	1645	mrsso	9.18.23	1730
mrsso	9.18.23	2400	Caitlin Man	9-19-23	8:20

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 9/19/2023 10:09:22AM

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:	09/19/23 08:20	Work Order ID:	E309135
Phone:	(505) 382-1211	Date Logged In:	09/18/23 15:29	Logged In By:	Alexa Michaels
Email:	agiovengo@ensolum.com	Due Date:	09/25/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration 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.

Project Information
TAR319310

Chain of Custody

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO# E309135 | Job Number 23078.0001

TAT: 1D | 2D | 3D | Standard: X

EPA Program: CWA | SDWA | RCRA

State: NM: X | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
13:19	9/15/2023	Soil	1	FS01 - 4'	1						X		Changed sample names for samples 10-16 per C. Burton 9/26/23 AM
13:22	9/15/2023	Soil	1	FS02 - 4'	2						X		
13:29	9/15/2023	Soil	1	FS03 - 4'	3						X		
13:30	9/15/2023	Soil	1	FS04 - 4'	4						X		
13:33	9/15/2023	Soil	1	FS05 - 4'	5						X		
11:56	9/15/2023	Soil	1	FS06 - 4'	6						X		
10:12	9/15/2023	Soil	1	FS07 - 4'	7						X		
11:55	9/15/2023	Soil	1	FS08 - 4'	8						X		
13:35	9/15/2023	Soil	1	FS09 - 4'	9						X		
12:32	9/15/2023	Soil	1	~~WS~~01 - 2' SW	10						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/18/	1130	Michelle Leyva	9-18-23	1130
Michelle Leyva	9-18-23	1645	Andrea Mosso	9.18.23	1730
Andrea Mosso	9.18.23	2400	Caitlin Mars	9.19.23	8:20

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

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

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

envirotech

Project Information
TAR319310

Chain of Custody

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO#	Job Number
E309135	23078.0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX
X				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
12:43	9/15/2023	Soil	1	~~WS~~02 - 2' SW	11						X		
12:32	9/15/2023	Soil	1	~~WS~~03 - 2' SW	12						X		
12:36	9/15/2023	Soil	1	~~WS~~04 - 2' SW	13						X		
12:40	9/15/2023	Soil	1	~~WS~~05 - 2' SW	14						X		
12:37	9/15/2023	Soil	1	~~WS~~10 - 2' SW	15						X		
12:27	9/15/2023	Soil	1	~~WS~~11 - 2' SW	16						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/14/23	1130	Michelle Leigh	9/18/23	1130
Michelle Leigh	9-18-23	1645	Amber Mosso	9.18.23	1730
Amber Mosso	9.18.23	2400	Caitlin Man	9.19.23	8:20

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

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

Project Information
TAR319310

Chain of Custody

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO# E309135 | Job Number 23078.0001

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			X		
					RCRA

State: NM | CO | UT | AZ | TX | (blank) — NM: X

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
13:19	9/15/2023	Soil	1	FS01 - 4'	1						X		Changed sample names for samples 10-16 per C. Burton 9/26/23 CM
13:22	9/15/2023	Soil	1	FS02 - 4'	2						X		
13:29	9/15/2023	Soil	1	FS03 - 4'	3						X		
13:30	9/15/2023	Soil	1	FS04 - 4'	4						X		
13:33	9/15/2023	Soil	1	FS05 - 4'	5						X		
11:56	9/15/2023	Soil	1	FS06 - 4'	6						X		
10:12	9/15/2023	Soil	1	FS07 - 4'	7						X		
11:55	9/15/2023	Soil	1	FS08 - 4'	8						X		
13:35	9/15/2023	Soil	1	FS09 - 4'	9						X		
12:32	9/15/2023	Soil	1	~~WS01 - 2'~~ SW01 0-4'	10						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

per C.H. 11/27/23 sample depth correction

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/18/	1130	Michelle Lang	9-18-23	1130
Michelle Lang	9-18-23	1645	Andrea Mesa	9.18.23	1730
Andrea Mesa	9.18.23	2400	Caitlin Mann	9.19.23	8:20

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

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

Project Information
TAR319310

Chain of Custody

Page 2 of 2

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
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Phone:	575-988-0055
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Email:	Huttona@kfoc.net

Lab Use Only

Lab WO#	Job Number
E309135	23078.0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
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12:32	9/15/2023	Soil	1	~~WS03 2'~~ SW03 0-4'	12						X		
12:36	9/15/2023	Soil	1	~~WS04 2'~~ SW04 0-4'	13						X		
12:40	9/15/2023	Soil	1	~~WS05 2'~~ SW05 0-8'	14						X		
12:37	9/15/2023	Soil	1	~~WS10 2'~~ SW10 0-6'	15						X		
12:27	9/15/2023	Soil	1	~~WS11 2'~~ SW11 0-6'	16						X		per. C.H. 11/27/23 All sample depth correction.

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/15/23	1130	Michelle Gaye	9/18/23	1130
Michelle Gaye	9-18-23	1645	Andrew Mason	9.18.23	1730
Andrew Mason	9.18.23	2400	Caitlin Man	9-19-23	8:20

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

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

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envirotech

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name:	Three Bear/Delek CTP
Work Order:	E309142
Job Number:	23078-0001
Received:	9/20/2023

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/28/23

Date Reported: 11/28/23

Ashley Giovengo
1224 Standpipe Rd
Carlsbad, NM 88220

Project Name: Three Bear/Delek CTP
Workorder: E309142
Date Received: 9/20/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/20/2023 8:15:00AM, under the Project Name: Three Bear/Delek CTP.

The analytical test results summarized in this report with the Project Name: Three Bear/Delek CTP apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/23 09:35

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW06 0-4'	E309142-01A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW07 0-6'	E309142-02A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW08 - 0-6'	E309142-03A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW09 0-4'	E309142-04A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW12 0-8'	E309142-05A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS10 - 4'	E309142-06A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS11 - 4'	E309142-07A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS12 - 6'	E309142-08A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS13 - 6'	E309142-09A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS14 - 6'	E309142-10A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS15 - 6'	E309142-11A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS16 - 6'	E309142-12A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS17 - 6'	E309142-13A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS18 - 6'	E309142-14A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS19 - 6'	E309142-15A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
FS20 - 4'	E309142-16A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

SW06 0-4'

E309142-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.6 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
Surrogate: n-Nonane		*80.3 %*	*50-200*	*09/21/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	ND	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

SW07 0-6'

E309142-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
Surrogate: n-Nonane		*81.2 %*	*50-200*	*09/21/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**237**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

SW08 - 0-6'

E309142-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.6 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*79.0 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**52.5**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

SW09 0-4'

E309142-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*83.7 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**168**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

SW12 0-8'

E309142-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*82.1 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	ND	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS10 - 4'

E309142-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.1 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*77.0 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**397**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS11 - 4'

E309142-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.1 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*81.4 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**2030**	20.0	1	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS12 - 6'

E309142-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*81.9 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**5280**	40.0	2	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS13 - 6'

E309142-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*81.1 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**4210**	40.0	2	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS14 - 6'

E309142-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*82.3 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**3810**	40.0	2	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS15 - 6'

E309142-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.7 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*83.7 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**2530**	40.0	2	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS16 - 6'

E309142-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.5 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*86.6 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**3940**	40.0	2	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS17 - 6'

E309142-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*84.1 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**2980**	100	5	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS18 - 6'

E309142-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*80.7 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**2580**	40.0	2	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS19 - 6'

E309142-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*88.5 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**3200**	40.0	2	09/21/23	09/22/23	

Sample Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

FS20 - 4'

E309142-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338062
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane		*82.9 %*	*50-200*	*09/21/23*	*09/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338076
Chloride	**936**	20.0	1	09/21/23	09/22/23	

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338062-BLK1)									Prepared: 09/20/23 Analyzed: 09/21/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.73*		*8.00*		*96.7*	*70-130*			
LCS (2338062-BS1)									Prepared: 09/20/23 Analyzed: 09/21/23
Benzene	4.65	0.0250	5.00		93.1	70-130			
Ethylbenzene	4.56	0.0250	5.00		91.2	70-130			
Toluene	4.62	0.0250	5.00		92.5	70-130			
o-Xylene	4.61	0.0250	5.00		92.2	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	13.9	0.0250	15.0		92.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.61*		*8.00*		*95.2*	*70-130*			
Matrix Spike (2338062-MS1)				**Source: E309142-12**					Prepared: 09/20/23 Analyzed: 09/21/23
Benzene	4.41	0.0250	5.00	ND	88.2	54-133			
Ethylbenzene	4.29	0.0250	5.00	ND	85.9	61-133			
Toluene	4.37	0.0250	5.00	ND	87.3	61-130			
o-Xylene	4.37	0.0250	5.00	ND	87.4	63-131			
p,m-Xylene	8.75	0.0500	10.0	ND	87.5	63-131			
Total Xylenes	13.1	0.0250	15.0	ND	87.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.6*	*70-130*			
Matrix Spike Dup (2338062-MSD1)				**Source: E309142-12**					Prepared: 09/20/23 Analyzed: 09/21/23
Benzene	4.56	0.0250	5.00	ND	91.1	54-133	3.27	20	
Ethylbenzene	4.46	0.0250	5.00	ND	89.2	61-133	3.78	20	
Toluene	4.52	0.0250	5.00	ND	90.3	61-130	3.41	20	
o-Xylene	4.49	0.0250	5.00	ND	89.9	63-131	2.78	20	
p,m-Xylene	9.09	0.0500	10.0	ND	90.9	63-131	3.82	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.6	63-131	3.47	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.62*		*8.00*		*95.3*	*70-130*			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338062-BLK1)									Prepared: 09/20/23 Analyzed: 09/21/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			
LCS (2338062-BS2)									Prepared: 09/20/23 Analyzed: 09/21/23
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.5*	*70-130*			
Matrix Spike (2338062-MS2)				**Source: E309142-12**					Prepared: 09/20/23 Analyzed: 09/21/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.75*		*8.00*		*96.9*	*70-130*			
Matrix Spike Dup (2338062-MSD2)				**Source: E309142-12**					Prepared: 09/20/23 Analyzed: 09/21/23
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.1	70-130	2.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.72*		*8.00*		*96.5*	*70-130*			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338072-BLK1)									Prepared: 09/21/23 Analyzed: 09/21/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*42.8*		*50.0*		*85.6*	*50-200*			
LCS (2338072-BS1)									Prepared: 09/21/23 Analyzed: 09/21/23
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	38-132			
Surrogate: n-Nonane	*42.9*		*50.0*		*85.7*	*50-200*			
Matrix Spike (2338072-MS1)				**Source: E309142-06**					Prepared: 09/21/23 Analyzed: 09/21/23
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.3	38-132			
Surrogate: n-Nonane	*37.3*		*50.0*		*74.7*	*50-200*			
Matrix Spike Dup (2338072-MSD1)				**Source: E309142-06**					Prepared: 09/21/23 Analyzed: 09/21/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	2.43	20	
Surrogate: n-Nonane	*41.9*		*50.0*		*83.8*	*50-200*			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Three Bear/Delek CTP	**Reported:**
1224 Standpipe Rd	Project Number:	23078-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/2023 9:35:23AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338076-BLK1)									Prepared: 09/21/23 Analyzed: 09/21/23
Chloride	ND	20.0							
LCS (2338076-BS1)									Prepared: 09/21/23 Analyzed: 09/21/23
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2338076-MS1)				**Source: E309142-01**					Prepared: 09/21/23 Analyzed: 09/22/23
Chloride	272	20.0	250	ND	109	80-120			
Matrix Spike Dup (2338076-MSD1)				**Source: E309142-01**					Prepared: 09/21/23 Analyzed: 09/22/23
Chloride	278	20.0	250	ND	111	80-120	2.18	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:	Three Bear/Delek CTP	
1224 Standpipe Rd	Project Number:	23078-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/28/23 09:35

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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
TAR319310

Chain of Custody

Client: Kaiser-Francis Oil Company	**Bill To**	Lab Use Only	TAT / EPA Program
Project: Three Bear/Delek CTP	Attention: Hutton Andrew	Lab WO# E309142	Job Number 23078-0001
Project Manager: Ashley Giovengo	Address: 6733 S Yale Ave	1D 2D 3D Standard: X	CWA SDWA RCRA
Address: 3122 National Parks Hwy	City, State: , Zip: Tulsa, OK, 74136		
City, State, Zip: Carlsbad NM, 88220	Phone: (580) 307-7363		
Phone: 575-988-0055	Email: Huttona@kfoc.net		
Email: agiovengo@ensolum.com			
Report due by:			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State: NM CO UT AZ TX	Remarks
12:35	9/18/2023	Soil	1	WS06 - 2'	1						X			
10:35	9/18/2023	Soil	1	WS07 - 2'	2						X			
10:39	9/18/2023	Soil	1	WS08 - 2'	3						X			
10:45	9/18/2023	Soil	1	WS09 - 2'	4						X			
10:48	9/18/2023	Soil	1	WS12 - 2'	5						X			
10:52	9/18/2023	Soil	1	FS10 - 4'	6						X			
10:55	9/18/2023	Soil	1	FS11 - 4'	7						X			
10:58	9/18/2023	Soil	1	FS12 - 6'	8						X			
11:01	9/18/2023	Soil	1	FS13 - 6'	9						X			
11:04	9/18/2023	Soil	1	FS14 - 6'	10						X			

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/19/23	1200	Michelle Gonzales	9-19-23	1200
Michelle Gonzales	9-19-	1730	Andrew Nesbo	9.19.23	1800
Andrew Nesbo	9.19.23	2400	Caitlin Man	9.20.23	8:15

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

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

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

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

envirotech

Project Information
TAR319310

Chain of Custody

Client: Kaiser-Francis Oil Company	
Project: Three Bear/Delek CTP	
Project Manager: Ashley Giovengo	
Address: 3122 National Parks Hwy	
City, State, Zip: Carlsbad NM, 88220	
Phone: 575-988-0055	
Email: agiovengo@ensolum.com	
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO#	Job Number
E309142	23078.0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:07	9/18/2023	Soil	1	FS15 - 6'	11						X		
11:10	9/18/2023	Soil	1	FS16 - 6'	12						X		
11:14	9/18/2023	Soil	1	FS17 - 6'	13						X		
11:17	9/18/2023	Soil	1	FS18 - 6'	14						X		
11:19	9/18/2023	Soil	1	FS19 - 6'	15						X		
11:22	9/18/2023	Soil	1	FS20 - 4'	16						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/19/23	1200	Michelle Gaylo	9-19-23	1200
Michelle Gaylo	9-19-23	1730	Andrew Mass	9.19.23	1800
Andrew Mass	9.19.23	2400	Caitlin Man	9.20.23	8:15

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 9/20/2023 10:23:38AM

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:	09/20/23 08:15	Work Order ID:	E309142
Phone:	(505) 382-1211	Date Logged In:	09/19/23 16:28	Logged In By:	Alexa Michaels
Email:	agiovengo@ensolum.com	Due Date:	09/26/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration 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.

Project Information
TAR319310

Chain of Custody

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO#	Job Number
E309142	23078-0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
12:35	9/18/2023	Soil	1	SW ~~WS~~06 - 2'	1						X		Changed sample names for samples 1-5 per C. Burton 9/26/23 CM
10:35	9/18/2023	Soil	1	SW ~~WS~~07 - 2'	2						X		
10:39	9/18/2023	Soil	1	SW ~~WS~~08 - 2'	3						X		
10:45	9/18/2023	Soil	1	SW ~~WS~~09 - 2'	4						X		
10:48	9/18/2023	Soil	1	SW ~~WS~~12 - 2'	5						X		
10:52	9/18/2023	Soil	1	FS10 - 4'	6						X		
10:55	9/18/2023	Soil	1	FS11 - 4'	7						X		
10:58	9/18/2023	Soil	1	FS12 - 6'	8						X		
11:01	9/18/2023	Soil	1	FS13 - 6'	9						X		
11:04	9/18/2023	Soil	1	FS14 - 6'	10						X		

Additional Instructions: **Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net**

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/19/23	1200	Michelle Lewis	9-19-23	1200
Michelle Lewis	9-19-	1730	Andrew Messo	9.19.23	1800
Andrew Messo	9.19.23	2400	Caitlin Man	9.20.23	8:15

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

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

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

envirotech

Project Information
TAR319310

Chain of Custody

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO#	Job Number
E309142	23078.0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:07	9/18/2023	Soil	1	FS15 - 6'	11						X		
11:10	9/18/2023	Soil	1	FS16 - 6'	12						X		
11:14	9/18/2023	Soil	1	FS17 - 6'	13						X		
11:17	9/18/2023	Soil	1	FS18 - 6'	14						X		
11:19	9/18/2023	Soil	1	FS19 - 6'	15						X		
11:22	9/18/2023	Soil	1	FS20 - 4'	16						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/19/23	12:00		9-19-23	1200
	9-19-23	1730		9.19.23	1800
	9.19.23	2400		9.20.23	8:15

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

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

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

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

envirotech

Project Information
TAR319310

Chain of Custody

Client:	Kaiser-Francis Oil Company
Project:	Three Bear/Delek CTP
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO# E309142 Job Number 23078-0001

TAT: 1D | 2D | 3D | Standard: X

EPA Program: CWA | SDWA | RCRA

State: NM: X | CO | UT | AZ | TX

Analysis and Method: TPH GRO/DRO/ORO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC NM; GDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	GDOC TX	Remarks
12:35	9/18/2023	Soil	1	SW ~~WS06 - 2'~~ 06 0-4'	1	X		Changed sample names for samples 1-5 per C. Burton 9/26/23 CM per. C.H. 11/27/23 AL sample depth correction.
10:35	9/18/2023	Soil	1	SW ~~WS07 - 2'~~ 07 0-6'	2	X		
10:39	9/18/2023	Soil	1	SW ~~WS08 - 2'~~ 08 0-6'	3	X		
10:45	9/18/2023	Soil	1	SW ~~WS09 - 2'~~ 09 0-4'	4	X		
10:48	9/18/2023	Soil	1	SW ~~WS12 - 2'~~ 12 0-8'	5	X		
10:52	9/18/2023	Soil	1	FS10 - 4'	6	X		
10:55	9/18/2023	Soil	1	FS11 - 4'	7	X		
10:58	9/18/2023	Soil	1	FS12 - 6'	8	X		
11:01	9/18/2023	Soil	1	FS13 - 6'	9	X		
11:04	9/18/2023	Soil	1	FS14 - 6'	10	X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/19/23	1200	Michelle Gaytan	9-19-23	1200
Michelle Gaytan	9-19-	1730	Andrew Mesa	9.19.23	1800
Andrew Mesa	9.19.23	2400	Caitlin Man	9.20.23	8:15

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

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

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envirotech

Project Information
TAR319310

Chain of Custody

Client: Kaiser-Francis Oil Company	
Project: Three Bear/Delek CTP	
Project Manager: Ashley Giovengo	
Address: 3122 National Parks Hwy	
City, State, Zip: Carlsbad NM, 88220	
Phone: 575-988-0055	
Email: agiovengo@ensolum.com	
Report due by:	

Bill To

Attention:	Hutton Andrew
Address:	6733 S Yale Ave
City, State: , Zip:	Tulsa, OK, 74136
Phone:	(580) 307-7363
Email:	Huttona@kfoc.net

Lab Use Only

Lab WO#	Job Number
E309142	23078.0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
						Analysis and Method											
11:07	9/18/2023	Soil	1	FS15 - 6'	11								X				
11:10	9/18/2023	Soil	1	FS16 - 6'	12								X				
11:14	9/18/2023	Soil	1	FS17 - 6'	13								X				
11:17	9/18/2023	Soil	1	FS18 - 6'	14								X				
11:19	9/18/2023	Soil	1	FS19 - 6'	15								X				
11:22	9/18/2023	Soil	1	FS20 - 4'	16								X				

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, Huttona@kfoc.net

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09/19/23	1200		9-19-23	1200
	9-19-23	1730		9-19-23	1800
	9-19-23	2400		9-20-23	8:15

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

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

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envirotech

ENSOLUM

APPENDIX G

Email Correspondence

NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
Stephanie Garcia Richard
New Mexico State Land Office Building
P.O. Box 1148, Santa Fe, NM 87504-1148

RIGHT OF ENTRY PERMIT
CONTRACT NO. RE – 6757

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

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

("Permittee"). The parties agree as follows:

1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a produced water release on or adjacent to the site of the **Kaiser-Francis CTP/Three Bear-Delek (Incident # nAPP2324454223)** and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in **Lea County**, New Mexico::

Section	Township	Range	Subdivision	County	Longitude/Latitude
36	22S	33E	NE4NE4	Lea	32.355305,-103.517979

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days,** commencing on the execution date of this document by the Commissioner of Public Lands.

3. FEES

$ 50.00 Application Fee
$ 500.00 Permit Fee
$ 550.00 Total Fee

4. CONDITIONS OF USE

RE-6757

A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.
B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.
C. No sale of any material extracted from the Premises is allowed under this ROE.
D. Permittee shall observe all applicable federal, state, and local laws and regulations.
E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.
F. Permittee shall not block or disrupt roads or trails commonly in use.
G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.
H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.
I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.
J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.
K. Personnel present on Premises: **Kaiser Francis personnel and authorized contractors.**
L. Equipment and materials present on Premises: **Vehicles, heavy equipment, and associated materials.**

5. SITE CONDITIONS

A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.
B. Access to the Premises shall be over existing roads.
C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

_____ DATE: _____

PERMITTEE SIGNATURE

_____

_____

PERMITTEE NAME AND TITLE (PRINT)

BY: _____

SEAL:

Stephanie Garcia Richard
Commissioner of Public Lands

DATE: _____

From: Knight, Tami C.
To: Ashley Giovengo; Hutton Andrew
Cc: Griffin, Becky R.
Subject: RE: Kaiser-Francis Oil Company - Sampling Variance - Three Bear-Delek CTP - Incident Number (nAPP2324454223)
Date: Wednesday, September 13, 2023 10:02:03 AM
Attachments: image009.png
image010.png
image011.png
image012.png

[**EXTERNAL EMAIL**]

Ashley and Andrew,

Thank you for looping ECO into the remediation project on State Trust Land. ECO will comply with NMOCD's decision on the variance request. However, this is not a release that I am showing was initially ever reported to ECO. We will use this email as the spill notification and start tracking the work. Please be sure to submit any remediation plans or remediation closure reports to ECO at eco@slo.state.nm.us.

If the soil boring is to be drilled on State Trust Land, please list NMSLO-ECO as the land owner contact. You may provide OSE with my name and use the eco@slo.state.nm.us address.

Any future spill notifications should be submitted to spills@slo.state.nm.us for spills on State Trust Land.

Thank you

Tami Knight, CHMM
Environmental Specialist
SRD-Environmental
Compliance Office (ECO)
505.670.1638
New Mexico State Land Office
1300 W. Broadway Avenue, Suite A
Bloomfield, NM 87413
tknight@slo.state.nm.us
nmstatelands.org
OUT OF OFFICE-NOT AVAILABLE September 18-22, 2023
.....

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, September 13, 2023 8:32 AM
To: Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>; SLO Spills <spills@slo.state.nm.us>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Kaiser-Francis Oil Company - Sampling Variance - Three Bear-Delek CTP - Incident Number (nAPP2324454223)

Hello,

Kaiser-Francis Oil Company (KFOC) is requesting a sampling variance at the Three Bear/Delek CTP site (Incident Number nAPP2324454223). On September 01, 2023, a leaking gasket resulted in the release of approximately 337 barrels (bbls) of produced water; 100 bbls were recovered with a vac truck. The release impacted the pipeline right-of-way (ROW) and ran to additional areas off-pad; the total impacted area measures approximately 11,580 square feet (sq. ft.). A desktop review for potential site receptors and delineation soil sampling to the strictest Closure Criteria have been completed for this release. According to the desktop review, the closest permitted groundwater well with depth to ground water data is New Mexico Office of the State Engineer (NMOSE) well, CP 01973 POD1 with a depth to groundwater measurement greater than 55 ft. below ground surface (bgs). The well is located 1.04 miles northeast of the site and the site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Laborartory analytical results from delineation soil samples indicated that there are chloride impacts at depths greater than 4-foot bgs. KFOC intends to drill and install a temporary monitoring well to establish depth to water within a ½ mile radius of the site. KFOC will excavate and collect final confirmation samples in accordance with the reclamation requirement (19.15.29.13 NMAC) and with the site Closure Criteria. Due to the size (11,580 sq. ft) of the impacted area, KFOC would like to request a sampling variance of every 400 sq. ft. on confirmation floor samples and every 200 feet on confirmation sidewall samples. KFOC believes this *variance request* will provide equal or better protection of public health, the environment, and groundwater and respectfully requests approval for Incident Numbers (nAPP2324454223).

Thanks,

Ashley Giovengo
Senior Engineer
575-988-0055
Ensolum, LLC

From: Velez, Nelson, EMNRD
To: Ashley Giovengo
Cc: Huttona@kfoc.net; Cole Burton; Chad Hamilton; spills@slo.state.nm.us; Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] Kaiser-Francis Oil Company - Sampling Variance - Three Bear-Delek CTP - Incident Number (nAPP2324454223)
Date: Wednesday, September 13, 2023 9:03:49 AM
Attachments: image001.png
image002.png
image003.png
image004.png
Outlook-0i1dpglo.png

[**EXTERNAL EMAIL**]
Good morning Ashley,

Your variance request for sampling every 400 sq. ft. on confirmation floor samples and every 200 feet on confirmation sidewall samples is approved.

A drilling permit through NMOSE is required for the planned exploratory boring.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, September 13, 2023 8:48 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Kaiser-Francis Oil Company - Sampling Variance - Three Bear-Delek CTP - Incident Number (nAPP2324454223)

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, September 13, 2023 8:32 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Spills@slo.state.nm.us
Cc: Hutton Andrew <Huttona@kfoc.net>; Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Kaiser-Francis Oil Company - Sampling Variance - Three Bear-Delek CTP - Incident Number (nAPP2324454223)

Hello,

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Thanks,

Ashley Giovengo
Senior Engineer
575-988-0055
Ensolum, LLC

From: Rodgers, Scott, EMNRD
To: Ashley Giovengo; Enviro, OCD, EMNRD; Spills@slo.state.nm.us
Cc: Hutton Andrew; Cole Burton; Chad Hamilton
Subject: RE: [EXTERNAL] 48-hour Confirmation Sampling Notification Email - Three Bear - Delek CTP - Incident Number nAPP2324454223
Date: Wednesday, September 13, 2023 1:57:40 PM
Attachments: image006.png
image007.png
image008.png
image009.png

Some people who received this message don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

Hello Ashley,
Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,
Scott

Scott Rodgers ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, September 13, 2023 11:56 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Spills@slo.state.nm.us
Cc: Hutton Andrew <Huttona@kfoc.net>; Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] 48-hour Confirmation Sampling Notification Email - Three Bear - Delek CTP - Incident Number nAPP2324454223

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

Hello,

We intend to collect confirmation samples at Kaiser-Francis Oil Company's Three Bear/Delek CTP site (Incident Number nAPP2324454223) beginning on Friday, September 15, 2023, at 09:00 am MST through Wednesday, September 20, 2023.

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

Thanks,

Ashley Giovengo
Senior Engineer
575-988-0055
Ensolum, LLC

From: SLO Spills
To: Ashley Giovengo
Subject: RE: 48-hour Confirmation Sampling Notification Email - Three Bear - Delek CTP - Incident Number nAPP2324454223
Date: Wednesday, September 13, 2023 1:26:21 PM
Attachments: image009.png
image010.png
image011.png
image012.png

[**EXTERNAL EMAIL**]

Received. ECO will not be on site.

Environmental Compliance Office
Surface Resources Division
eco@slo.state.nm.us
nmstatelands.org

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, September 13, 2023 11:56 AM
To: Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>; SLO Spills <spills@slo.state.nm.us>
Cc: Hutton Andrew <Huttona@kfoc.net>; Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] 48-hour Confirmation Sampling Notification Email - Three Bear - Delek CTP - Incident Number nAPP2324454223

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

Thanks,

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

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 290036
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/13/2024