

Wescom Inc. 1224 Standpipe Road Carlsbad, New Mexico 88220

> (575) 840-3940 wescominc.com

November 02, 2021

Robert Hamlet, Victoria Venegas, and/or Chad Hensley State of New Mexico Energy, Minerals, and Natural Resources New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

Re: Closure Request

Company: Kaiser Francis Oil Company

Location: NBL 4-15 SWD Produced Water Line

API: 30-025-24771

PLSS: Unit K Sec 08 T23S R34E GPS: 32.3173599, -103.4942551

Incident ID: NAPP2107043534

Background

Wescom, Inc., hereafter referred to as Wescom, has prepared this closure request on behalf of Kaiser Francis Oil Company, hereafter referred to as KFOC, regarding the release at the North Bell Lake 4-15 SWD produced water line (Site) located in Unit K, Section 08, Township 23 South and Range 34 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.3173599 and West -103.4942551. Surface owner of the site is Basin Properties. The Site falls within New Mexico Oil Conservation Division (NMOCD), District 2 Artesia.

On March 09, 2021, a leak developed on a produced water line. The source of the leak was isolated immediately upon discovery. KFOC estimates the amount of fluid released to be approximately ten barrels (bbls) of produced water. Five bbls of produced water was recovered from the spill area. Wescom conducted soil sampling on March 10, March 17 through March 19 and again on March 24, 2021, to determine the horizontal and vertical extent of the contamination from the ten bbl spill. Excavation of contaminated soils surrounding the produced water line began on March 09, 2021.

On May 25, 2021, KFOC formally requested a 90-day extension for the remediation of the soil associated with this Site in order to determine depth to water (DTW) within a half-mile radius. The extension was approved by the New Mexico Energy, Minerals and Natural Resources Department - Oil Conservation District on May 27, 2021. On July 23, 2021, Atkins Engineering filed a Well Plugging Plan of Operations through NMOSE (Attachment D) on behalf of KFOC. KFOC received confirmation that the permit to drill CP-1886-POD1 was approved by NMOSE on July 29, 2021 (Attachment C). CP-1886-POD1 is located in Section 07, Township 23 South and Range 34 East in Lea County, New Mexico and is 0.32 miles from the



spill Site. The GPS coordinates for CP-1886-POD1 are as follows: North 32.316919 and West -103.505894. The temporary water well was drilled on September 09, 2021. The well was plugged on September 15, 2021. Confirmation samples were collected on September 29, 2021, and October 15, 2021. Approximately 600 yards of contaminated soil was removed from the spill area and disposed of at an approved facility.

Surface & Ground Water

The New Mexico Office of the State Engineer (OSE) records indicates nearest ground water measurement in the area is greater than 110 feet below ground surface (bgs) (Attachment D) and is 0.32 miles East of the location, shown in Attachment E. No playas, lakes, ponds, riverines or wetlands are located within a half-mile radius of this site (see Attachment E).

Karst Potential

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

Target Remedial Levels

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



Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)							
NBL 4-15 SWD Produced W	ater Line	e 32.3173599, -103.494	2551				
Depth to Groundwater	Closure Criteria (units in mg/kg)						
		Chloride * numerical					
		limit or background,				_	
		whichever is greater	TPH	GRO+DRO	BTEX	Benzene	
Based on high karst potential		600	100		50	10	
less than 50 ft bgs or no water data within 1/2 mile		600	100		50	10	
51 ft to 100 ft		10000	2500	1000	50	10	
greater than 100 ft		20000	2500	1000	50	10	
Surface water	yes or no	If yes, then					
< 300 feet from continuously flowing watercourse or other significant watercourse?	no						
< 200 feet from lakebed, sinkhole or playa lake?	no						
Water Well or Water Source							
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	no						
< 1000 feet from fresh water well or spring?	no						
Human and Other Areas							
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	no						
within incorporated municipal boundaries or within a defined municipal fresh water well field?	no						
< 100 feet from wetland?	no						
within area overlying a subsurface mine?	no						
within an unstable area?	no						
within a 100-year floodplain?	no						

Site Assessment & Delineation Activities

Beginning March 10, 2021, KFOC contracted Wescom to conduct soil sampling, to determine the horizontal and vertical extent of the contamination from the ten bbl spill. Wescom completed delineation sampling on March 24, 2021 as shown in Figure 1. A background sample BG01 was collected 50 feet to the East of the spill area at zero feet bgs. Wescom personnel returned to the Site on March 24, 2021, to collect four additional background samples, BG01-1', BG01-2', BG02-1', and BG02-2'.

A total of 30 soil samples were jarred and sent to Envirotech, Inc, for laboratory analysis over the course of the five-day sampling period and all samples were below the applicable RRAL for the Site. Delineation sample points are presented in Figure 1; laboratory analysis results are listed in Table 1 and laboratory analytical reports are included in Attachment G.

Confirmation Sampling

The required 48-hour confirmation sampling notifications were sent on September 23 and October 13, 2021, to Victoria Venegas, Robert Hamlet, Chad Hensley, and Mike Bratcher with the NMOCD in Santa Fe, New Mexico. Approximately 600 yards of contaminated soil was removed from the spill area and disposed



of at an approved facility. Confirmation samples were collected following removal of impacted soils and the drilling of temporary water well, CP-1886-POD1.

A total of 18 confirmation composite samples were obtained on September 29, 2021. All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0/9056A. The confirmation sample results are presented in Table 2; laboratory analytical reports are included in Attachment G. Locations of confirmation samples are shown in Figure 2. Three of the confirmation samples collected on September 29, 2021, exceeded the RRAL for the Site. Wescom personnel returned to the Site on October 15, 2021, to scrape the walls of the spill area and resample CONF15-Wall, CONF17-Wall and CONF18-Wall. Laboratory analysis of samples CONF15A-Wall, CONF17A-Wall and CONF18A-Wall showed results below closure criteria levels (Table 2).

Request for Closure

Based on the confirmation sample laboratory data, depth to ground water, the fact this release has been delineated both horizontally and vertically and impacted material has been removed and properly disposed of, KFOC hereby requests closure for incident number NAPP2107043534. KFOC also requests that no further action be taken at this time.

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

Sincerely,

Wescom, Inc.

Ashley Giovengo Environmental Manager - Permian

Figures

Figure 1. Delineation Samples
Figure 2. Confirmation Samples

Tables

Table 1. Laboratory Analysis Results – Delineation SamplesTable 2. Laboratory Analysis Results – Confirmation Samples

Attachments

Attachment A. C-141
Attachment B. Site Photos

Attachment C. Well Plugging Plan of Operations
Attachment D. Well Record and Log (CP-1886-POD1)



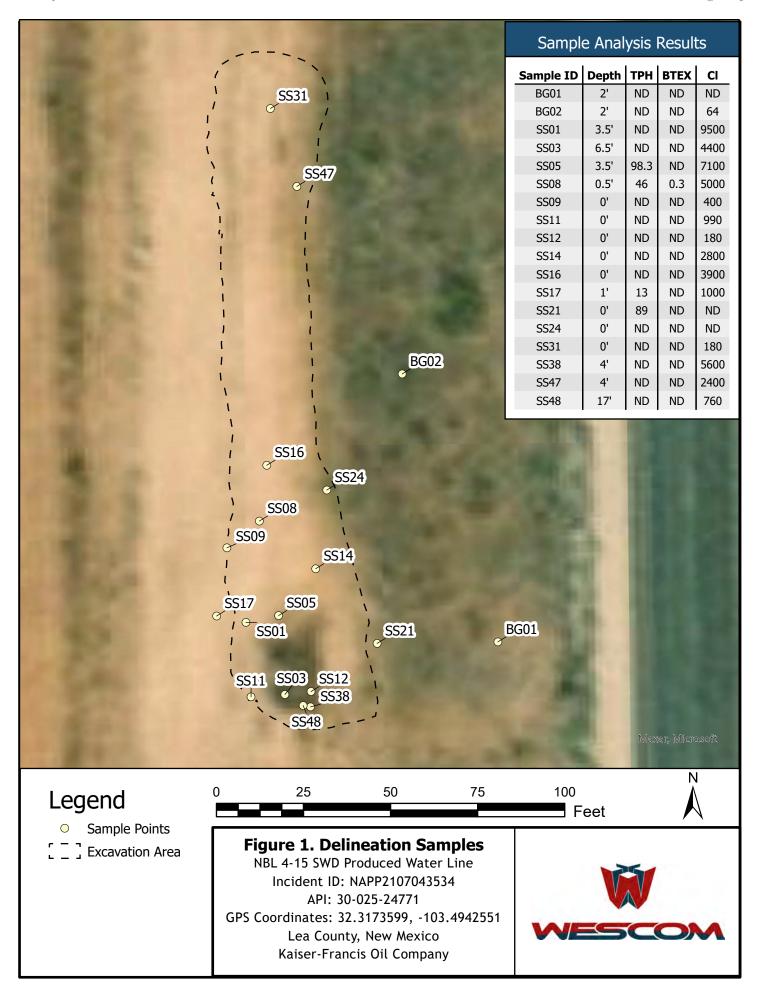
Attachment E. Closure Criteria Research

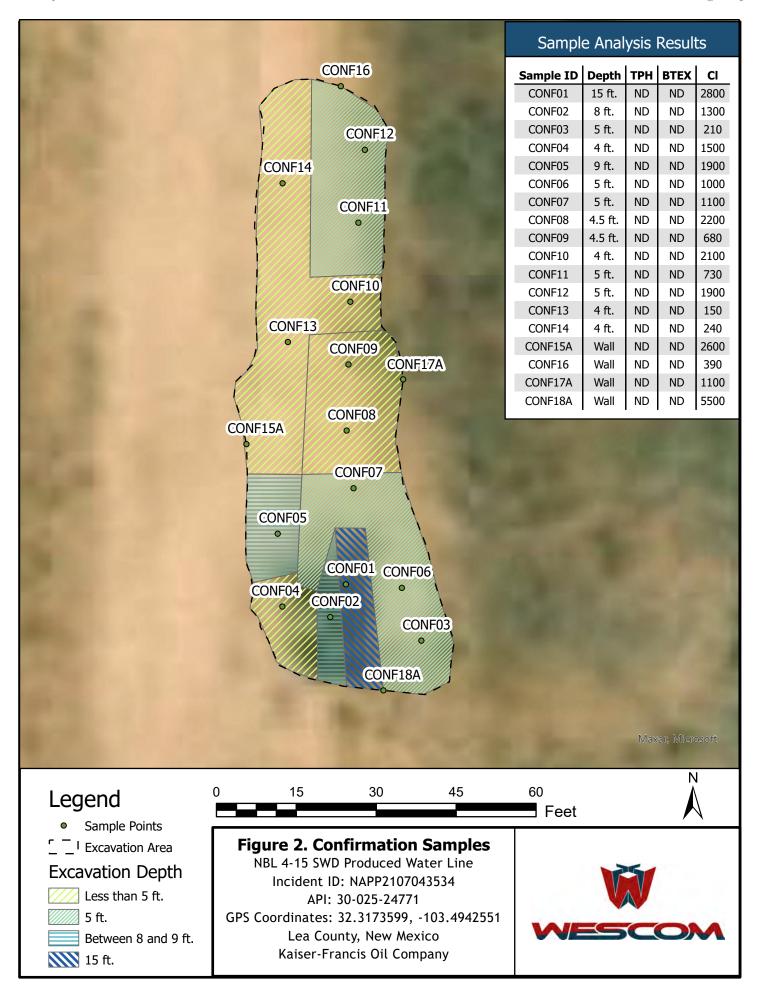
Attachment F. Karst Map

Attachment G. Envirotech, Inc. Laboratory Analysis Reports

Figures







Tables



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North Bell Lake Unit 4-15 SWD 3/9/2021 Spill Kaiser-Francis Oil Company November 02, 2021

Sample ID		Table 1. Lab	oratory Analy	ysis Results: Delineation Samples					
Sample ID	Samp	le Descripti	on	Petro	Inorganic				
Closure Criteria	Sample ID	Depth (ft.)	Date		_	Extractable	ide		
Hall Environmental Analysis Laboratory Inc. SS01	·	, , ,		_			(mg/kg)		
SS01 3.5 3/9/2021 ND ND ND 950 SS03 3.5 3/9/2021 ND ND ND ND 490 SS03 6.5 3/18/2021 ND ND ND ND 440 SS05 3.5 3/9/2021 ND ND ND 98.3 710 SS08 0.5 3/9/2021 ND ND ND ND 46 500 SS09 0 3/9/2021 ND ND ND ND 400 5511 0 3/9/2021 ND ND ND ND 990 5512 0 3/9/2021 ND ND ND ND 180 5514 0 3/9/2021 ND ND ND ND 180 5514 0 3/9/2021 ND ND ND ND ND 180 5516 0 3/9/2021 ND ND ND ND ND ND ND ND	Closure Criteria				50		20000		
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	BG01	1	3/24/2021	ND	ND	ND	ND		
BG01 2 3/24/2021 ND ND ND ND	BG01	2	3/24/2021	ND	ND	ND	ND		
BG02 1 3/24/2021 ND ND ND ND	BG02	1	3/24/2021	ND	ND	ND	ND		
BG02 2 3/24/2021 ND ND ND 64	BG02	2	3/24/2021	ND	ND	ND	64		

Abbreviations:

BTEX - Benzene, Toluene, Ethylbenzene, Xylene

TPH - Total Petroleum Hydrocarbons

ft. - feet

mg/kg - milligrams per kilogram

ND - Non-detect

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North Bell Lake Unit 4-15 SWD 3/9/2021 Spill Kaiser-Francis Oil Company November 02, 2021

Table 2. Laboratory Analysis Results: Confirmation Samples

Samp	on	Petro	Inorganic			
			Volatile Extracta			
Sample ID	Depth (ft.)	Date	Benzene (mg/kg)	m (ga/k BTEX (total)	HdL (mg/kg)	gy/ga/ (ga/kg)
Closure Criteria			10	50	2500	20000
Hall Environmer	ntal Analysis	Laboratory In	c.			
CONF01	15	9/29/2021	ND	ND	ND	2800
CONF02	8	9/29/2021	ND	ND	ND	1300
CONF03	5	9/29/2021	ND	ND	ND	210
CONF04	4	9/29/2021	ND	ND	ND	1500
CONF05	9	9/29/2021	ND	ND	ND	1900
CONF06	5	9/29/2021	ND	ND	ND	1000
CONF07	5	9/29/2021	ND	ND	ND	1100
CONF08	4.5	9/29/2021	ND	ND	ND	2200
CONF09	4.5	9/29/2021	ND	ND	ND	680
CONF10	4	9/29/2021	ND	ND	ND	2100
CONF11	5	9/29/2021	ND	ND	ND	730
CONF12	5	9/29/2021	ND	ND	ND	1900
CONF13	4	9/29/2021	ND	ND	ND	150
CONF14	4	9/29/2021	ND	ND	ND	240
CONF15	Wall	9/29/2021	ND	ND	ND	22000
CONF15A	Wall	10/19/2021	ND	ND	ND	2600
CONF16	Wall	9/29/2021	ND	ND	ND	390
CONF17	Wall	9/29/2021	ND	ND	ND	28000
CONF17A	Wall	10/19/2021	ND	ND	ND	1100
CONF18	Wall	9/29/2021	ND	ND	ND	35000
CONF18A	Wall	10/19/2021	ND	ND	ND	5500

Abbreviations:

BTEX - Benzene, Toluene, Ethylbenzene, Xylene

TPH - Total Petroleum Hydrocarbons

mg/kg - milligrams per kilogram

ND - Non-detect

ft. - feet

Notes:

Red Bold - Results are greater than closure criteria.

Black Bold - Resampled Confirmation area; results are below closure criteria.

Attachment A

Signed C-141



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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2107043534
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party Kaiser	-Francis Oil Comp	oany	OGF	XID 12361
Contact Nam	ne Charles Lo	ock		Cont	act Telephone 918-491-4337
Contact ema	il Charlesl@	kfoc.net		Incid	ent # (assigned by OCD) nAPP2107043534
Contact mail	ling address	P.O. Box 21468, T	ulsa, OK 74121		DEMASS. WESTER WITH
Latitude 32.	317110			n of Relea Longi	tude -103.511338
Site Name N	BL 4-15 SW	D Produced Water	Line	Site '	Type Produced Water Line
Date Release	Discovered	3/9/2021		API	(if applicable)
Unit Letter	Section	Township	Range		County
	Section	, o monip	1101160	Lea	
Crude Oi	Materia	i(s) Released (Select all	Nature and that apply and atta	nd Volume	e of Release specific justification for the volumes provided below)
		Volume Release		1 10	Volume Recovered (bbls)
Produced	Water	Volume Release		-	Volume Recovered (bbls) 5
		Is the concentrat produced water		chloride in the	Yes No
Condensa	ate	Volume Release			Volume Recovered (bbls)
Natural (Gas	Volume Release	d (Mcf)	3077-00	Volume Recovered (Mcf)
Other (de	escribe)	Volume/Weight	Released (provi	ide units)	Volume/Weight Recovered (provide units)
Cause of Re	lease				
A leak in the	e produced w	rater line developed	d. Leake d has b	een stopped an	d free liquid picked up. Excavation and sampling has begun.

Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2107043534
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?
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The impacted area ha	ease has been stopped. Is been secured to protect human health and the environment. In the environment of
	d above have not been undertaken, explain why:
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig	ormation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Charles W. Lock Title: EH&S Manager
Signature:	Date:3/11/2021
email:charlesl@kfoo	.net
OCD Only Received by: Ramon	a Marcus Date: 4/16/2021

Attachment B

Site Photos







Spill Area - Inital Cleanup



Spill Area - Initial Cleanup





Spill Area - Inital Cleanup



Spill Area - Inital Cleanup





Excavation Area - Entire Spill Area



Excavation Area - North Side





Excavation Area - South Side



Excavated Material





Excavated Material



Final Confimation Sampling

Attachment C

Well Plugging Plan of Operations



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

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

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521

Fax: (575) 623-8559

July 29, 2021

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

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

Greetings:

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

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

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

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

Sincerely,

Kashyap Parekh

Water Resources Professional III

K. ParekL



WELL PLUGGING PLAN OF OPERATIONS



WD-08 Well Plugging Plan Version: July 31, 2019 Page 1 of 5

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

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

I. FILING FEE: There is no filing fee for this form. II. GENERAL / WELL OWNERSHIP: Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: II. GENERAL / WELL OWNERSHIP: Name of well owner: Kaiser-Francis Oil Company Mailing address: 6733 S. Yale Ave County: Zip code: 74136 City: Tulsa State: E-mail: DavidZ@KFOC.net Phone number: 918-491-4350 III. WELL DRILLER INFORMATION: Expiration Date: 04/30/2023 New Mexico Well Driller License No.: 1249 IV. WELL INFORMATION: Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section. Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan. Latitude: __see WD-08m _deg, _____ min, _____ 1) GPS Well Location: Longitude: deg, min, sec, NAD 83 2) Reason(s) for plugging well(s): Soil boring to determine groundwater level DSE DIT JUL 26 2021 PKR 10 If yes, please use section VII of this form to detail NO Was well used for any type of monitoring program? 3) what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging. If yes, provide additional detail, Does the well tap brackish, saline, or otherwise poor quality water? N/A 4) including analytical results and/or laboratory report(s): feet below land surface / feet above land surface (circle one) Static water level: 5) Depth of the well: ____ 6)

	Oll .
7)	Inside diameter of innermost casing:inches.
8)	Casing material: Temporary PVC SCH 40
9)	The well was constructed with: an open-hole production interval, state the open interval: a well screen or perforated pipe, state the screened interval(s):
10)	What annular interval surrounding the artesian casing of this well is cement-grouted?
11)	Was the well built with surface casing? NO If yes, is the annulus surrounding the surface casing grouted or
	otherwise sealed? If yes, please describe:
12)	Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.
V. DES	CRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate
Note: If diagram as geophy	this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such sical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.
	is planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology
	The temporary 2" well material will be removed. Tremied from bottom to land Neat Cement in lifts
	The temporary 2 Well material will be removed. Tremied from bottem to land vices 2 minutes and the second s
2)	Will well head be cut-off below land surface after plugging?
	The first flow of the control of the
	UGGING AND SEALING MATERIALS:
Note: The	UGGING AND SEALING MATERIALS: The plugging of a well that taps poor quality water may require the use of a specialty coment or specialty sealant. Attach a copy of the batch meaning the product description for specialty coment company and/or product description for specialty coment mixes or any sealant that deviates from the list of OSE approved sealants.
Note: The	UGGING AND SEALING MATERIALS:
Note: Th	UGGING AND SEALING MATERIALS: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch me company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.
Note: The from the	UGGING AND SEALING MATERIALS: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch me cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants. For plugging intervals that employ cement grout, complete and attach Table A.
Note: The from the 1) 2) 3)	UGGING AND SEALING MATERIALS: the plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch me cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants. For plugging intervals that employ cement grout, complete and attach Table A. For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B. Theoretical volume of grout required to plug the well to land surface: 189
Note: The from the 1) 2) 3) 4)	ugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch m cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants. For plugging intervals that employ cement grout, complete and attach Table A. For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B. Theoretical volume of grout required to plug the well to land surface: 189
Note: The from the 1) 2) 3) 4)	ugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch modernent company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants. For plugging intervals that employ cement grout, complete and attach Table A. For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B. Theoretical volume of grout required to plug the well to land surface: Type of Cement proposed: Type I/II Neat Cement Proposed cement grout mix: Section 1 as specialty cement or specialty sealant. Attach a copy of the batch mixes or any sealant that deviates from the list of OSE approved sealants. Table A. Theoretical volume of grout required to plug the well to land surface: Type of Cement proposed: Type I/II Neat Cement gallons of water per 94 pound sack of Portland cement.
Note: The from the 1) 2) 3) 4)	ugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch m cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants. For plugging intervals that employ cement grout, complete and attach Table A. For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B. Theoretical volume of grout required to plug the well to land surface: Type of Cement proposed: Type I/II Neat Cement

WD-08 Well Plugging Plan Version: July 31, 2019 Page 2 of 5

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)	Grout additives requested, and percent l	by dry weight relative to cement:	
,	N/A	of all morgan rotative to contour.	
	Additional notes and calculations:		
	N/A	8	
I. A	ADDITIONAL INFORMATION: List a	additional information below, or on separate	sheet(s):
UIL. Dav	SIGNATURE: id Zerger tions and any attachments, which are a par	ell material will be removed. If no water is encaged using hydrated bentonite. If ground water than type I/II Neat cement in lifts. A 6.5" be at the thereof; that I am familiar with the rules and will comply with them, and that each and at true to the best of my knowledge and belief	egoing Well Plugging Plan of d regulations of the State
		Signature of Applicant	Date
	CTION OF THE STATE ENGINEER:		
			SE DII JUL 28 2021 •×3:10
is V	Vell Plugging Plan of Operations is:	End Fin	3C ON 013C 20 2021 **3.10
	Approved subject to the attac Not approved for the reasons	thed conditions. provided on the attached letter. i.l	
	Witness my hand and official seal this	29th day of JULY	
	The state of the s		
	GI · GRE	John R. D'Antonio Jr. P.E., N	1 - 1
	COLUMN TO SERVICE SERV	P / 1	-
		P / 1	-
-		P / 1	VD-08 Well Plugging Plan

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

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	N/A
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	110
Theoretical volume of grout required per interval (gallons)	N/A	N/A	189
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch- mixed and delivered?	N/A	N/A	On-Site
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A E DII JUL 26 2021 PH3:10

WD-08 Well Plugging Plan Version: July 31, 2019 Page 4 of 5

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

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

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WD-08 Well Plugging Plan Version: July 31, 2019 Page 5 of 5



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT to WD-08 Plan of Plugging MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Re	cation (Required):								
NM State Plane (NAD83) (Feet)		☐UTM (NAD83) (Meters) ☐ Zone 13N ☐ Zone 12N		■ Lat/Long (WGS (1/10 th of second)	■ Lat/Long (WGS84) 1/10 th of second) OTHER (allowable only for move-frodescriptions - see application form form PLSS (quarters, section, townshows Hydrographic Survey, Map & Trall Lot, Block & Subdivision Grant				
OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
C- POD1	Exploratory Well #1	103°30'21.22"W	32°19'0.91"	N SE NW SE Sec 7-23S-34E	Boring	Unknown	110	189 gallons	N
	J								
		100	1				4	,	
			a de la companya de l						
			FOR OSE	INTERNAL USE	Multiple Mont	oring POD Desc	riptions, Form	wr-08m (Re	v 7/31/19)
		veen	File Numl	ber:		Trn Numl	per:		
			Trans De	scription (optional):	i				

OSE DIT JUL 26 2021 PKS:11

Attachment D

Well Record and Log (CP-1886-POD1)





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

09/23/2021

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1886 Pod1

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-1886 Pod1.

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

Sincerely,

Lucas Middleton

Enclosures: as noted above

Gran Modelin

10SE DII SEP 24 2021 **10:57



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

											_		
GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (EW-01) WELL TAG ID NO. n/a					OSE FILE NO(S). CP-1886							
	WELL OWNER NAME(S) Kaiser-Francis Oil Company					PHONE (OPTIONAL)							
	WELL OWNER MAILING ADDRESS 6733 S. Yale Ave						CITY STATE ZIP Tulsa OK 74136				ZIP		
	WELL LOCATION LATTE		DE	BEGREES MINUTES SECONDS 32 19 0.91 N			* ACCURACY REQUIRED: ONE TENTH OF A SECOND						
	(FROM GPS)	3)	NGITUDE	103	30	21.22							
1. GEP	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIJP, RANGE) WHERE AVAILABLE SE NW SE Sec. 7 T23S R34E												
	LICENSE NO.		NAME OF LICENSED	DRILLER				NAME OF WELL DRILLING COMPANY					
	1249			Jackie D. Atkins				Atkins Engineering Associates, Inc.					
	DRILLING STARTED 09/09/2021		DRILLING ENDED 09/09/2021	DEPTH OF COMPLETED WELL (FT) BORE HOLE DEPTH (FT) temporary well material 110			H (FT)	DEPTH WATER FIRST ENCOUNTERED (FT) n/a					
,	COMPLETED WELL IS: ARTESIAN		7 DRY HOLE SHALLOW (UNCONFINED)			STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a			LL (FT)				
Õ	DRILLING FL	.UID:	AIR	MUD	MUD ADDITIVES – SPECIFY:								
SMA'	DRILLING METHOD: ROTARY HAMMER				CABLE 1	CABLE TOOL OTHER - SPECIFY:			IFY:	Hollow Stem Auger			
& CASING INFORMATION	DEPTH (feet bgl) BORE HOLE			CASING MATERIAL AND/OR				CASING CASING WAI					
	FROM TO		BORE HOLE DIAM (inches)	GRADE (include each casing string, and		, and	CASING CONNECTION TYPE					NG WALL CKNESS nches)	SLOT SIZE (inches)
CAS	0	105	±6.5	note sections of screen) Boring- HSA		<u> </u>	(add coupling diameter)		eter)	_		_	-
2. DRILLING													
M				(<u> </u>									
4.													
						-							
											_		
١,	DEPTH (feet bgl) BORE HOLE		LIST ANNULAR SEAL MATERIAL A				AMOUNT			METHOD OF			
ANNULAR MATERIAL	FROM	TO	DIAM. (inches)	GRAVEL PACK SIZE-RANGE BY INTE		ERVAL (cul		(cubic feet)	(cubic feet)		PLACEMENT		
E 2			1										
MA.									-				
¥											-		
5			-					The second secon			1 Part 1 19 . J	PER LIVERS	
3. AN							_						
EOP	OGE BETTER	אוא זומדי	T.						13/TD 2/	WELL RECORD	& TOG A	Version 06/2	n/17)
	OSE INTERI	NAL USE			POD NO	D.			TRN N		E LOU (TOTAL VU/3	3,17)
LOCATION								-	WELL TAG ID NO. PAGE 1 C			1 OF 2	

	DEPTH (feet bgl)		THICKNESS	THICKNESS COLOR AND TYPE OF MATE						ER ING?	ESTIMATED YIELD FOR
	FROM	то	(feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)				(YES/NO)		WATER- BEARING ZONES (gpm)	
	0	4	4	Sand, Medium/Fine grained, poorly graded, caliche gravel Brown			Y	√ N			
	4	9	5	Caliche	e, with fine-grained sand, Of	White/	Tan		Y	✓ N	
	9	105	96	Sand, Fine gra	sined, poorly graded, with cal	iche gra	vel, Brown	===-	Y	√N	
									Y	N	
									Y	N	
13									Y	N	
HYDROGEOLOGIC LOG OF WELL									Y	N	
Q.									Y	N	
00									Y	N	
)ic									Y	N	
010									Y	N	
GEO									Y	N	
<u>8</u>									Y	N	
HX									Y	N	
4.									Y	N	
									Y	N	
				9					Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING	STRATA:				AL ESTIM		
	PUMI	· Al	R LIFT	BAILER OT	HER – SPECIFY:			WEI	LL YIELD	(gpm):	0.00
NO	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.										
VISION	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten										
test; rig super	feet below ground surface, then hydrated bentonite chips from ten feet below ground surface.										
C St											
l; RI											
TEST	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:										
5.	Shane Eldridge, Carmelo Trevino, Cameron Pruitt										
TURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND THAT HE OR SHE WILL BE THE WELL BECORD WITH THE STATE ENCINEER										
	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:										
6. SIGNATURE	Jack Ar	kins		Jac	kie D. Atkins		992	E DIT	09/23	/2021	M10:57
ý	SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE										
FOF	OSE INTERI	NAL USE					WR-20 WEI	LL RE	CORD & I	.OG (Ver	sion 06/30/2017)
	E NO.				POD NO.		TRN NO.				
LO	CATION					WELL	TAG ID NO.				PAGE 2 OF 2

2021-09-23__CP-1886_OSE_Well Record and Log_-forsign

Final Audit Report

2021-09-24

Created:

2021-09-23

Ву:

Lucas Middleton (lucas@atkinseng.com)

Status:

Signed

Transaction ID:

CBJCHBCAABAA_hzmo4Ek-YF7hzeTkFsQk6J8KNirP4FZ

"2021-09-23__CP-1886_OSE_Well Record and Log_-forsign" Hi story

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-09-23 6:40:51 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-09-23 6:44:04 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-09-24 0:38:55 AM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2021-09-24 0:39:33 AM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2021-09-24 - 0:39:33 AM GMT

05E DITSEP 24 2021 PML0:57





PLUGGING RECORD



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

State	owner: Kaiser-Francis (CP-1886 POD1 (EW-01)	DI 1	7 22
Well	owner: Kaiser-Francis C	o Avo	Phone N	No.:
Maili	ng address: 6733 S. Yal		OK	74126
City:	Tulsa	Stat	e:OK	Zip code: 74136
rr 33	ELL PLUGGING INF	TODM ATION:		
1)	Nome of well drilling	company that plugged well:	Jackie D. Atkins (Atkins Eng	gineering Associates Inc.)
1)				
2)	New Mexico Well D	riller License No.: 1249		Expiration Date: 04/30/23
3)		ies were supervised by the foneron Pruitt, Carmelo Trevino		ervisor(s):
4)	Date well plugging b	egan: 09/15/2021	Date well plugging con	ncluded: 09/15/2021
5)	GPS Well Location:	Latitude: 32 Longitude: 103	deg,19min, _ deg,30min, _	0.91 sec 21.22 sec, WGS 84
6)	Depth of well confirm by the following man		as:105ft below grour	nd level (bgl),
7)		asured at initiation of pluggir		
8)	Date well plugging p	lan of operations was approv	ed by the State Engineer:07	7/29/2021
9)	Were all plugging ac differences between	tivities consistent with an app the approved plugging plan a	proved plugging plan? and the well as it was plugged	Yes If not, please describe (attach additional pages as needed):
I				0'5E DH SEP 24 2021 9410'57
1				- [[**N** {]] [[*N** [**] Z (4. Z (3 Z)] HB (] (3 Z)]

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 <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	20 gallons	15 gallons	Augers	
-	10'-105' Drill Cuttings	Approx. 151 gallons	151 gallons	Boring	
-					
-					
-				OSE DIT S	EP 24 2021 #M10:57
		MULTIPLY E cubic feet x 7.4 cubic yards x 201.9	BY AND OBTAIN 1805 = gallons 197 = gallons		

III. SIGNATURE:

III. SIGNATURE:		
	at I am familiar with the rules of the Office of the State	
Engineer pertaining to the plugging of wells and that each and a	all of the statements in this Plugging Record and attachments	
are true to the best of my knowledge and belief.		
Jack Atkins	09/23/2021	
Si	ignature of Well Driller Date	

Version: September 8, 2009 Page 2 of 2

2021-09-23__CP-1886_WD-11 Plugging Record-forsign

Final Audit Report 2021-09-24

Created: 2021-09-23

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAAYEBXAhBCiKa_i2kqkDWhoL47lyX5CdSf

"2021-09-23__CP-1886_WD-11 Plugging Record-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-09-23 6:41:24 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-09-23 6:43:53 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-09-24 0:37:49 AM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2021-09-24 0:38:31 AM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed.
 2021-09-24 0:38:31 AM GMT

0SE DII SEP 24 2021 #M10:57



Attachment E

Closure Criteria Research







NBL 4-15 SWD Line - Riverine 3,389.7 ft



March 31, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

ent Wetland Lake

Freshwater Forested/Shrub Wetland

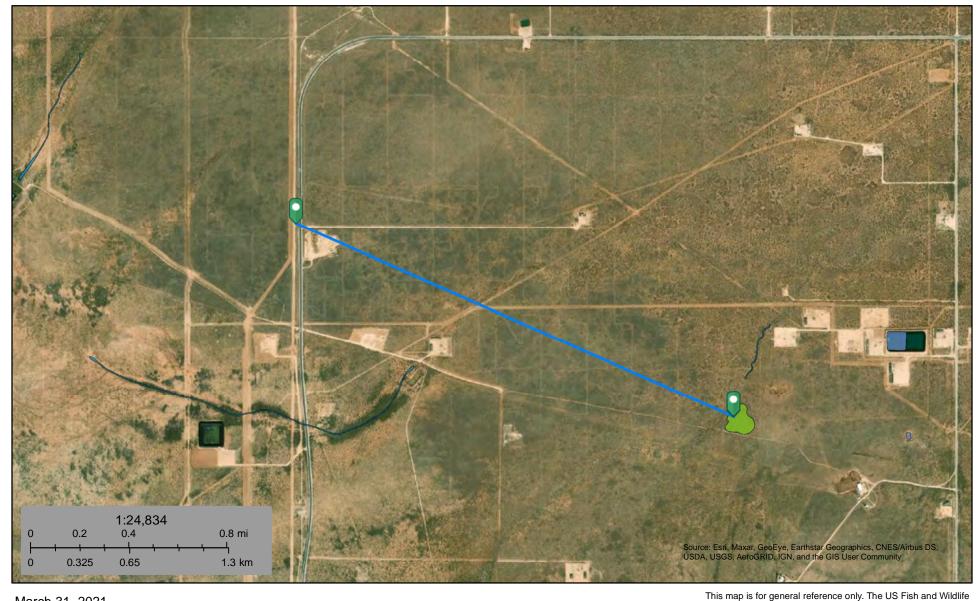
Riverine

Other

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



NBL 4-15 SWD Line - Wetland 8,730.6 ft



March 31, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

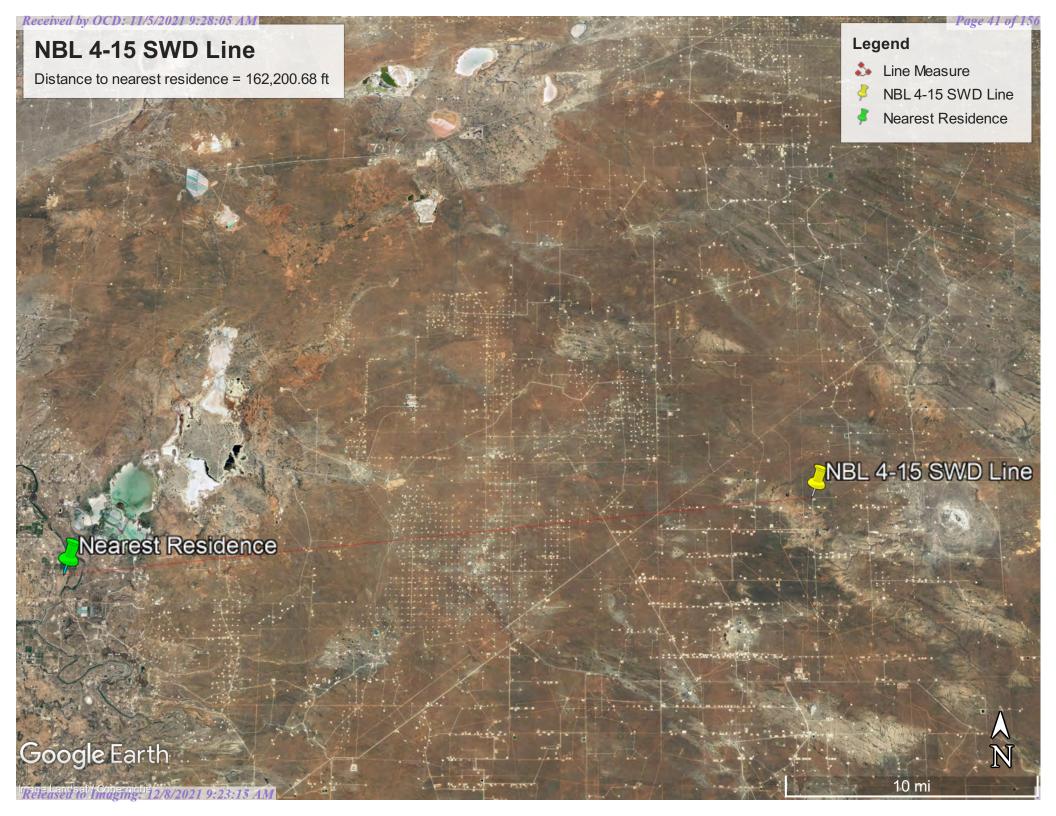
Freshwater Pond

Lake

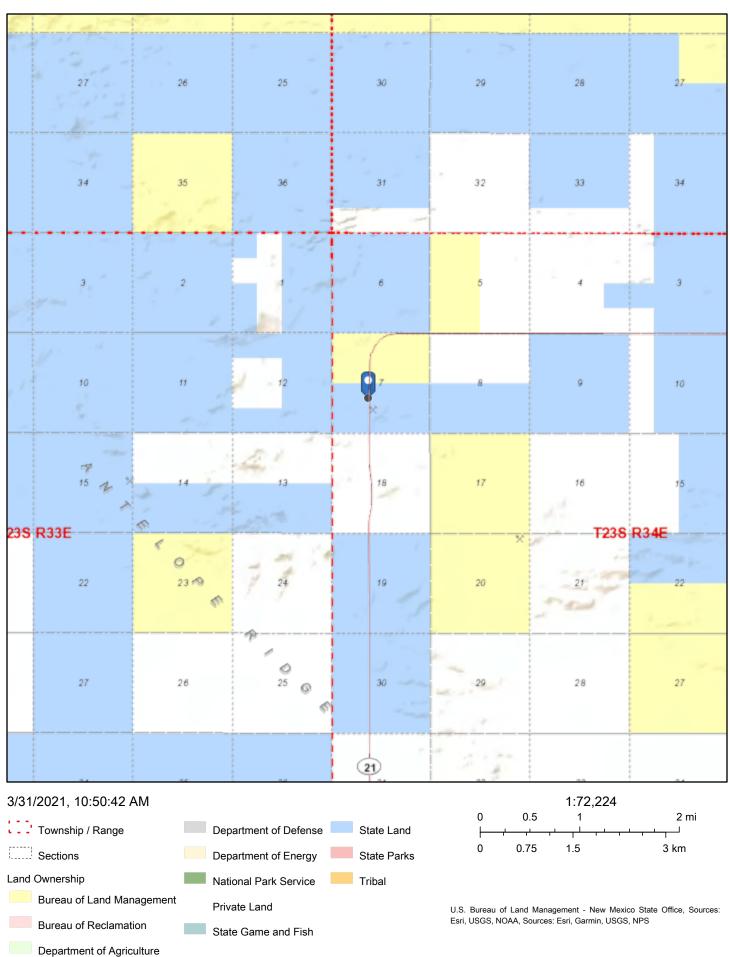
Other

Riverine

Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Active Mines near NBL 4-15 SWD Line

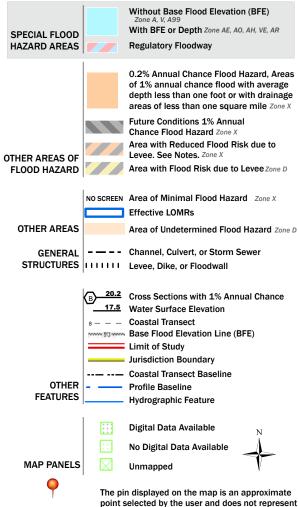


National Flood Hazard Layer FIRMette





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

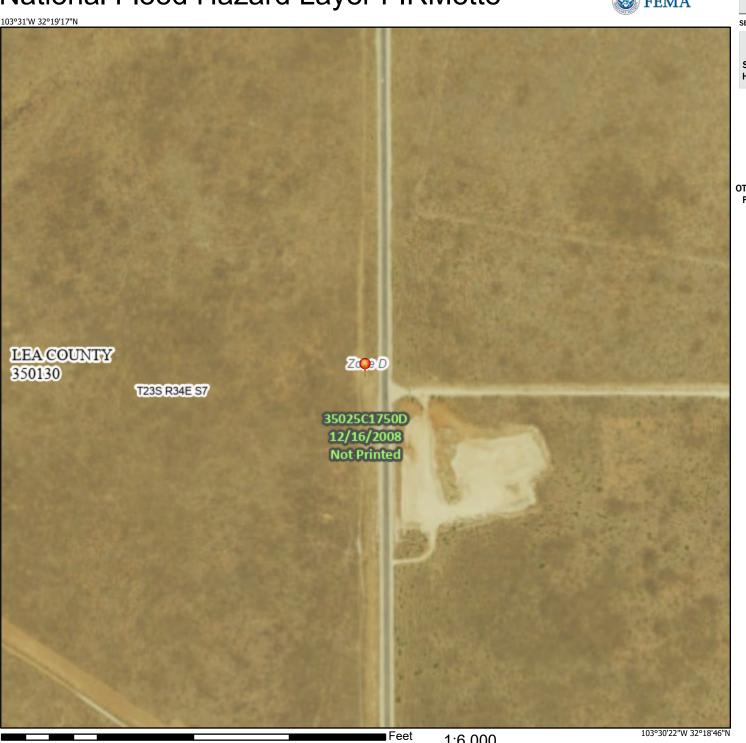


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/31/2021 at 11:50 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

an authoritative property location.

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



2.000

Attachment F

Karst Map





Attachment G

Envirotech, Inc. Laboratory Anaylsis Results





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

March 25, 2021

Ashley Giovengo Kaiser Francis Oil Company 1224 Standpipe Carlsbad, NM 88220 TEL: (575) 840-3940

FAX

RE: 4-15 SWD 03092021 Spill OrderNo.: 2103A04

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/20/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS47-4'

 Project:
 4-15 SWD 03092021 Spill
 Collection Date: 3/18/2021 4:37:00 PM

 Lab ID:
 2103A04-001
 Matrix: SOIL
 Received Date: 3/20/2021 8:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/20/2021 9:55:39 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/20/2021 9:55:39 PM
Surr: DNOP	102	70-130	%Rec	1	3/20/2021 9:55:39 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/22/2021 10:56:49 AM
Surr: BFB	97.2	75.3-105	%Rec	1	3/22/2021 10:56:49 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/22/2021 10:56:49 AM
Toluene	ND	0.050	mg/Kg	1	3/22/2021 10:56:49 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/22/2021 10:56:49 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/22/2021 10:56:49 AM
Surr: 4-Bromofluorobenzene	99.8	80-120	%Rec	1	3/22/2021 10:56:49 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	2400	60	mg/Kg	20	3/20/2021 10:08:31 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS48-9'

 Project:
 4-15 SWD 03092021 Spill
 Collection Date: 3/18/2021 3:06:00 PM

 Lab ID:
 2103A04-002
 Matrix: SOIL
 Received Date: 3/20/2021 8:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/20/2021 10:08:45 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/20/2021 10:08:45 PM
Surr: DNOP	103	70-130	%Rec	1	3/20/2021 10:08:45 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/22/2021 11:20:28 AM
Surr: BFB	96.7	75.3-105	%Rec	1	3/22/2021 11:20:28 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/22/2021 11:20:28 AM
Toluene	ND	0.049	mg/Kg	1	3/22/2021 11:20:28 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2021 11:20:28 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/22/2021 11:20:28 AM
Surr: 4-Bromofluorobenzene	98.9	80-120	%Rec	1	3/22/2021 11:20:28 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	3100	150	mg/Kg	50	3/20/2021 10:45:46 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS03-6.5'

 Project:
 4-15 SWD 03092021 Spill
 Collection Date: 3/18/2021 1:19:00 PM

 Lab ID:
 2103A04-003
 Matrix: SOIL
 Received Date: 3/20/2021 8:50:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/20/2021 10:21:54 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/20/2021 10:21:54 PM
Surr: DNOP	103	70-130	%Rec	1	3/20/2021 10:21:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/22/2021 11:43:57 AM
Surr: BFB	98.8	75.3-105	%Rec	1	3/22/2021 11:43:57 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/22/2021 11:43:57 AM
Toluene	ND	0.049	mg/Kg	1	3/22/2021 11:43:57 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2021 11:43:57 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/22/2021 11:43:57 AM
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	3/22/2021 11:43:57 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4400	150	mg/Kg	50	3/20/2021 10:58:10 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2103A04**

25-Mar-21

Client: Kaiser Francis Oil Company
Project: 4-15 SWD 03092021 Spill

Sample ID: MB-58864 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58864 RunNo: 76086

Prep Date: 3/20/2021 Analysis Date: 3/20/2021 SeqNo: 2693684 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58864 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58864 RunNo: 76086

Prep Date: 3/20/2021 Analysis Date: 3/20/2021 SeqNo: 2693685 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.7 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

4.9

WO#: **2103A04 25-Mar-21**

Client: Kaiser Francis Oil Company
Project: 4-15 SWD 03092021 Spill

Sample ID: MB-58867 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 58867 RunNo: 76096 Prep Date: 3/20/2021 Analysis Date: 3/20/2021 SeqNo: 2694152 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10 10.00 101 70 130

Sample ID: LCS-58867 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 58867 RunNo: 76096 Prep Date: 3/20/2021 Analysis Date: 3/20/2021 SeqNo: 2694155 Units: mg/Kg SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 10 50.00 93.4 68.9 141

98.0

70

130

5.000

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

2103A04 25-Mar-21

WO#:

Client: Kaiser Francis Oil Company **Project:** 4-15 SWD 03092021 Spill

Sample ID: mb-58863 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 58863 RunNo: 76109

Prep Date: 3/20/2021 Analysis Date: 3/22/2021 SeqNo: 2695161 Units: mq/Kq

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 950 1000 94.6 75.3 105

Sample ID: Ics-58863 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 58863 RunNo: 76109

Prep Date: 3/20/2021 Analysis Date: 3/22/2021 SeqNo: 2695162 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 98.6 80 120 Surr: BFB 1000 1000 104 75.3 105

Sample ID: 2103a04-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: SS47-4' Batch ID: 58863 RunNo: 76109

Prep Date: 3/20/2021 Analysis Date: 3/22/2021 SeqNo: 2695164 Units: mg/Kg

Result SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte PQL %REC LowLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.32 0 98.0 61.3 114 Surr: BFB 972.8 S 1100 109 75.3 105

Sample ID: 2103a04-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SS47-4' Batch ID: 58863 RunNo: 76109

Prep Date: 3/20/2021 Analysis Date: 3/22/2021 SeqNo: 2695165 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 25 4.9 24.41 101 61.3 2.93 114 20 Surr: BFB 1000 976.6 107 75.3 105 0 0 S

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103A04**

25-Mar-21

Client: Kaiser Francis Oil Company
Project: 4-15 SWD 03092021 Spill

Sample ID: mb-58863 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 58863 RunNo: 76109 Prep Date: 3/20/2021 Analysis Date: 3/22/2021 SeqNo: 2695199 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.97 1.000 97.3 80 120

Sample ID: LCS-58863 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 58863 RunNo: 76109 Analysis Date: 3/22/2021 Prep Date: 3/20/2021 SeqNo: 2695200 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.94 0.025 n 94.3 80 120 Benzene Toluene 0.96 0.050 1.000 0 96.4 80 120 0 95.4 80 0.95 0.050 1.000 120 Ethylbenzene 0 95.9 Xylenes, Total 2.9 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 0.99 1.000 99.1 80 120

SampType: MS TestCode: EPA Method 8021B: Volatiles Sample ID: 2103a04-002ams Client ID: SS48-9^t Batch ID: 58863 RunNo: 76109 Prep Date: 3/20/2021 Analysis Date: 3/22/2021 SeqNo: 2695203 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 93.8 76.3 0.93 0.025 0.9901 120 Benzene O 0.96 0.050 0.9901 0 96.9 78.5 120 Toluene 0 95.8 78.1 124 Ethylbenzene 0.95 0.050 0.9901 Xylenes, Total 2.8 0.099 2.970 0 95.5 79.3 125 Surr: 4-Bromofluorobenzene 0.9901 0.99 100 80 120

TestCode: EPA Method 8021B: Volatiles Sample ID: 2103a04-002amsd SampType: MSD Client ID: SS48-9 Batch ID: 58863 RunNo: 76109 Prep Date: 3/20/2021 Analysis Date: 3/22/2021 SeqNo: 2695204 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual 0.85 0.024 0.9737 0 86.8 76.3 120 9.38 20 Benzene Toluene 0.87 0.049 0.9737 0 89.6 78.5 120 9.46 20 Ethylbenzene 0.87 0.049 0.9737 0 89.6 78.1 124 8.29 20 Xylenes, Total 0.097 2.921 0 89.8 79.3 125 7.88 20 2.6 Surr: 4-Bromofluorobenzene 0.97 0.9737 99.7 120 0 0 80

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Kaiser Francis Oil Company	Work Order Number	210	3A04			RcptNo: 1
Received By: Sean Livingston	3/20/2021 8:50:00 AM			S	_6	not
Completed By: Sean Livingston	3/20/2021 9:01:37 AM			<	/	not
Reviewed By: Vision	3/20/2/			٠,٠	-0,	
Chain of Custody						
1. Is Chain of Custody complete?		Yes	~	No		Not Present
2. How was the sample delivered?		Cou	rier			
Log In						
3. Was an attempt made to cool the samples?		Yes	~	No		NA 🗌
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in proper container(s)?		Yes	V	No		
6. Sufficient sample volume for indicated test(s)?	Yes	V	No		
7. Are samples (except VOA and ONG) properly		Yes	V	No		
8. Was preservative added to bottles?	ACEEM AS	Yes		No	V	NA 🗆
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	Yes		No		NA 🗹
10. Were any sample containers received broke	n?	Yes		No	V	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No		bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes	~	No		Adjusted?
13. Is it clear what analyses were requested?		Yes	V	No		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	V	No		Checked by: 562 3/20/21
Special Handling (if applicable)						
15. Was client notified of all discrepancies with	this order?	Yes		No		NA 🗹
Person Notified:	Date:	-	_		-	
By Whom:	Via: [eM	lail	Phone	Fax	☐ In Person
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. Cooler Information Cooler No Temp °C Condition S 1 3.1 Good	eal Intact Seal No S	Seal D	ate	Signed	Ву	

Received by OCD: 11/5/2021 9;28:05 AM Page 56 of 156 ANALYSIS LABORATORY HALL ENVIRONMENTAL 3 If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report cc star. Marvester ANGO Ashley Giovenzo wes cominc. com 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com Analysis Request Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 NO2, PO4, SO4 NO3' Tel. 505-345-3975 3CRA 8 Metals Remarks: please 2MI20728 to 0168 yd 2HA9 EDB (Method 504.1) 8081 Pesticides/8082 PCB's TPH38015D(GRO / DRO / MRO) (X3T8 TMB's (8021) MTBE / Cooler Temp(including CF): 3 3 -0. 2=3 1 (°C) 8:50 830 Time Time 0 200 HEAL No. 000 500 2103AOU Project Manager: Ashley Giove ng Turn-Around Time: C・Same Day 675%, TPH MSPP P Standard □ Rush 3/10/21 Giovengo 3/20/21 Date Project Name: 4-15 5 ∞ ℃ 03.09.2021 Spill Preservative Wilmanning 100 100 COURTR ice Sampler: Ashley Type # of Coolers: Type and # Container Received by: Received by Project #: 1201 QY SGL On Ice: ar email or Fax#: ashley - giovens o al weson □ Level 4 (Full Validation) Chain-of-Custody Record N. com 1224 Standpize Rd Sample Name 5.03-6058 16-8455 17445 Client: Yaise r Francis Oil Commune Phone #: 505 - 282 - 1211 □ Az Compliance Relinquished by: Relinquished by: N.W. □ Other Matrix 3/8/21/1:37 pmS Company Chain-o
Client:

Compare National Address: 3/18/21 3:06 2mg Carlsbad, 3/18/21 1:19 am QA/QC Package: Time EDD (Type) Accreditation: 1900 880 Time: Time: □ Standard □ NELAC 12/61/8 12 Date Date:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

March 25, 2021

Ashley Giovengo Kaiser Francis Oil Company 1224 Standpipe Carlsbad, NM 88220 TEL: (575) 840-3940

FAX

RE: 4 15 SWD 03 09 2021 Spill OrderNo.: 2103A49

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/23/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS49-0.5'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/19/2021 2:12:00 PM

 Lab ID:
 2103A49-001
 Matrix: SOIL
 Received Date: 3/23/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	10	9.8	mg/Kg	1	3/23/2021 10:13:57 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/23/2021 10:13:57 AM
Surr: DNOP	92.3	70-130	%Rec	1	3/23/2021 10:13:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/24/2021 9:09:03 AM
Surr: BFB	91.3	75.3-105	%Rec	1	3/24/2021 9:09:03 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/24/2021 9:09:03 AM
Toluene	ND	0.048	mg/Kg	1	3/24/2021 9:09:03 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/24/2021 9:09:03 AM
Xylenes, Total	ND	0.096	mg/Kg	1	3/24/2021 9:09:03 AM
Surr: 4-Bromofluorobenzene	98.5	80-120	%Rec	1	3/24/2021 9:09:03 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	630	59	mg/Kg	20	3/23/2021 10:53:21 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS50-6'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/19/2021 4:39:00 PM

 Lab ID:
 2103A49-002
 Matrix: SOIL
 Received Date: 3/23/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	120	9.8	mg/Kg	1	3/23/2021 10:23:19 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/23/2021 10:23:19 AM
Surr: DNOP	112	70-130	%Rec	1	3/23/2021 10:23:19 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/24/2021 9:32:38 AM
Surr: BFB	87.2	75.3-105	%Rec	1	3/24/2021 9:32:38 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/24/2021 9:32:38 AM
Toluene	ND	0.048	mg/Kg	1	3/24/2021 9:32:38 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/24/2021 9:32:38 AM
Xylenes, Total	ND	0.097	mg/Kg	1	3/24/2021 9:32:38 AM
Surr: 4-Bromofluorobenzene	95.2	80-120	%Rec	1	3/24/2021 9:32:38 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1100	60	mg/Kg	20	3/23/2021 11:05:46 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 11

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS48-17'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/19/2021 2:55:00 PM

 Lab ID:
 2103A49-003
 Matrix: SOIL
 Received Date: 3/23/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/23/2021 10:32:45 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/23/2021 10:32:45 AM
Surr: DNOP	83.6	70-130	%Rec	1	3/23/2021 10:32:45 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/24/2021 9:56:09 AM
Surr: BFB	89.0	75.3-105	%Rec	1	3/24/2021 9:56:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/24/2021 9:56:09 AM
Toluene	ND	0.050	mg/Kg	1	3/24/2021 9:56:09 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/24/2021 9:56:09 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/24/2021 9:56:09 AM
Surr: 4-Bromofluorobenzene	98.2	80-120	%Rec	1	3/24/2021 9:56:09 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	760	60	mg/Kg	20	3/23/2021 11:18:11 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Chloride

Analytical Report
Lab Order 2103A49

Date Reported: 3/25/2021

3/23/2021 11:30:35 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS48-13'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/19/2021 2:23:00 PM

 Lab ID:
 2103A49-004
 Matrix: SOIL
 Received Date: 3/23/2021 8:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed

EPA METHOD 300.0: ANIONS

Analyses PA METHOD 300.0: ANIONS

1800

60

mg/Kg

20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 11

Chloride

Analytical Report
Lab Order 2103A49

Date Reported: 3/25/2021

3/23/2021 11:30:43 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS48-12'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/19/2021 2:01:00 PM

 Lab ID:
 2103A49-005
 Matrix: SOIL
 Received Date: 3/23/2021 8:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed

EPA METHOD 300.0: ANIONS Analyst: VP

3600

150

mg/Kg

50

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 11

Chloride

Analytical Report
Lab Order 2103A49

Date Reported: 3/25/2021

3/23/2021 11:55:24 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS48-14'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/19/2021 2:32:00 PM

 Lab ID:
 2103A49-006
 Matrix: SOIL
 Received Date: 3/23/2021 8:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed

EPA METHOD 300.0: ANIONS Analyses PA Method 300.0: ANIONS

60

mg/Kg

20

2200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 11

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS48-16'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/19/2021 2:44:00 PM

 Lab ID:
 2103A49-007
 Matrix: SOIL
 Received Date: 3/23/2021 8:00:00 AM

 Analyses
 Result
 RL Qual Units
 DF
 Date Analyzed

 EPA METHOD 300.0: ANIONS
 Analyst: VP

 Chloride
 2300
 60
 mg/Kg
 20
 3/23/2021 12:07:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **2103A49**

25-Mar-21

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: MB-58901 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **58901** RunNo: **76140**

Prep Date: 3/23/2021 Analysis Date: 3/23/2021 SeqNo: 2696564 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58901 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58901 RunNo: 76140

Prep Date: 3/23/2021 Analysis Date: 3/23/2021 SeqNo: 2696565 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.9 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Result

52

3.9

PQL

9.3

2103A49 25-Mar-21

WO#:

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: MB-58898	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 58	898	F	RunNo: 7	6138				
Prep Date: 3/23/2021	Analysis D	ate: 3/	23/2021	\$	SeqNo: 2	695795	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		80.7	70	130			
Sample ID: LCS-58898	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
011				_						
Client ID: LCSS	Batch	ID: 58	898	۲	RunNo: 7	6138				
Prep Date: 3/23/2021	Batch Analysis D				RunNo: 7 SeqNo: 2		Units: mg/K	ίg		
			23/2021				Units: mg/K	(g %RPD	RPDLimit	Qual
Prep Date: 3/23/2021	Analysis D	ate: 3/	23/2021	S	SeqNo: 2	695796	ŭ	J	RPDLimit	Qual
Prep Date: 3/23/2021 Analyte	Analysis D Result	ate: 3/ PQL	23/2021 SPK value	SPK Ref Val	SeqNo: 2 %REC	695796 LowLimit	HighLimit	J	RPDLimit	Qual
Prep Date: 3/23/2021 Analyte Diesel Range Organics (DRO)	Analysis D Result 49 4.5	ate: 3/ PQL	SPK value 50.00 5.000	SPK Ref Val 0	%REC 97.4 89.6	695796 LowLimit 68.9 70	HighLimit 141	%RPD		Qual
Prep Date: 3/23/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP	Analysis D Result 49 4.5 SampT	ate: 3/ PQL 10	SPK value 50.00 5.000	SPK Ref Val 0	%REC 97.4 89.6	695796 LowLimit 68.9 70 PA Method	HighLimit 141 130	%RPD		Qual

Sample ID: 2103A49-001AMSI	S ampT	уре: М \$	SD	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: \$\$49-0.5'	Batch	ID: 58	898	R	RunNo: 70	6138					
Prep Date: 3/23/2021	Analysis D	ate: 3/	23/2021	S	SeqNo: 20	695798	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	50	9.5	47.26	10.32	83.7	15	184	3.89	23.9		
Surr: DNOP	4.1		4 726		87.6	70	130	0	0		

10.32

%REC

89.1

84.2

LowLimit

15

70

HighLimit

184

130

%RPD

RPDLimit

Qual

SPK value SPK Ref Val

46.64

4.664

Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103A49 25-Mar-21**

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: mb-58900 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 58900 RunNo: 76182

Prep Date: 3/23/2021 Analysis Date: 3/24/2021 SeqNo: 2697501 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Sample ID: 2103a49-001ams

Surr: BFB 940 1000 93.8 75.3 105

Sample ID: Ics-58900 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 58900 RunNo: 76182

Prep Date: 3/23/2021 Analysis Date: 3/24/2021 SeqNo: 2697502 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 92.0 80 120

TestCode: EPA Method 8015D: Gasoline Range

 Surr: BFB
 1000
 1000
 99.6
 75.3
 105

Client ID: \$\$49-0.5' Batch ID: 58900 RunNo: 76182

SampType: MS

Prep Date: 3/23/2021 Analysis Date: 3/24/2021 SeqNo: 2697523 Units: mg/Kg

Result SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte PQL %REC LowLimit Qual Gasoline Range Organics (GRO) 23 4.7 23.61 0 98.6 61.3 114 Surr: BFB 950 944.3 100 75.3 105

Sample ID: 2103a49-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: \$\$49-0.5' Batch ID: 58900 RunNo: 76182

Prep Date: 3/23/2021 Analysis Date: 3/24/2021 SeqNo: 2697524 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 23 96.6 61.3 2.88 4.7 23.43 114 20 Surr: BFB 930 937.2 99.6 75.3 105 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103A49 25-Mar-21**

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: mb-58900 Client ID: PBS	SampType: MBLK Batch ID: 58900				tCode: El					
Prep Date: 3/23/2021	Analysis D	ate: 3/	24/2021	S	SeqNo: 2	697544	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: LCS-58900	SampT	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	h ID: 58 9	900	F	RunNo: 7							
Prep Date: 3/23/2021	Analysis D	Date: 3/ 3	24/2021	SeqNo: 2697545 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.93	0.025	1.000	0	93.2	80	120					
Toluene	0.96	0.050	1.000	0	96.1	80	120					
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120					
Xylenes, Total	2.9	0.10	3.000	0	95.2	80	120					
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120					

Sample ID: 2103a49-002ams	Samp1	Гуре: М\$	3	Tes						
Client ID: SS50-6'	Batcl	h ID: 58	900	F						
Prep Date: 3/23/2021	\$	SeqNo: 2	697572	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9579	0	101	76.3	120			
Toluene	0.99	0.048	0.9579	0	103	78.5	120			
Ethylbenzene	0.98	0.048	0.9579	0	103	78.1	124			
Xylenes, Total	2.9	0.096	2.874	0	101	79.3	125			
Surr: 4-Bromofluorobenzene	0.95		0.9579		99.1	80	120			

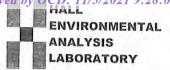
Sample ID: 2103a49-002amsd	SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: SS50-6'	Batch	1D: 58 9	900	F	RunNo: 7	6182				
Prep Date: 3/23/2021	ate: 3/ 2	24/2021	21 SeqNo: 2697575 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9940	0	102	76.3	120	4.48	20	
Toluene	1.0	0.050	0.9940	0	104	78.5	120	4.88	20	
Ethylbenzene	1.0	0.050	0.9940	0	105	78.1	124	5.72	20	
Xylenes, Total	3.1	0.099	2.982	0	104	79.3	125	6.14	20	
Surr: 4-Bromofluorobenzene	0.98		0.9940		98.4	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Kaiser Francis Oil Company	Work Order Nun	nber: 210	3A49			RcptNo: 1	1
Received By: Cheyenne Cason	3/23/2021 8:00:00	АМ					
Completed By: Sean Livingston	3/23/2021 8:07:55	AM		<	not		
Reviewed By: JR 3/23/21)^	-6	Bat	
Chain of Custody							
Is Chain of Custody complete?		Yes	V	No		Not Present	
2. How was the sample delivered?		Cou					
Log In							
3. Was an attempt made to cool the samples?		Yes	~	No		NA 🔲	
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes	~	No		NA 🗌	
5. Sample(s) in proper container(s)?		Yes	V	No			
6. Sufficient sample volume for indicated test(s)?		Yes	V	No			
7. Are samples (except VOA and ONG) properly p	reserved?	Yes	V	No			
8. Was preservative added to bottles?		Yes		No	V	NA 🗆	
9. Received at least 1 vial with headspace <1/4" fo	or AQ VOA?	Yes		No		NA 🗹	
10. Were any sample containers received broken?		Yes		No	V		10
11. Does paperwork match bottle labels?		Yes	V	No		# of preserved bottles checked for pH:	3 23
(Note discrepancies on chain of custody)							2 unless noted)
2. Are matrices correctly identified on Chain of Cu	stody?		V	No		Adjusted?	
3. Is it clear what analyses were requested?4. Were all holding times able to be met?		Yes	V	No		2.00	
(If no, notify customer for authorization.)		Yes	V	No		Checked by:	
Special Handling (if applicable)							
15. Was client notified of all discrepancies with this	order?	Yes		No		NA 🗸	
Person Notified:	Date		-		_		
By Whom:	Via:	eM	ail 🗆	Phone	Fax	In Person	
Regarding:				7-1-		140000000000000000000000000000000000000	
Client Instructions:							
16. Additional remarks:							
17. Cooler Information Cooler No Temp °C Condition Seal 1 2.4 Good	Intact Seal No	Seal D	ate	Signed B	y		

31231 0800	Die: Time: Relinquished by:	<u> </u>		202	9:22	8:03	AM-	3/19/22:44/0m S 5548-110, *	3/19/212:32pm S SS 48-14"	3/19/212:01pm 5 5548-12'	3/19/212:23pm 5 55 48-13	319/212:55pm S 5548-17'	3/19/2/4:39pm S SS50- 6	3/19/21/2:12pm S 5549-0.5"	Date Time Matrix Sample Name	□ EDD (Type)	Accreditation: Az Compliance Other	□ Standard □ Level 4 (Full Validation)	si saled giovendos	87-1211	N S	Mailing Address. 1724 Standoise Rd	0	Client Laiser Francis Oil	of 156 Chain-of-Custody Record
an	Received by:	Received by:		$\widehat{}$			<i>J</i> -	1971	jarl	·arl	jari	jarl	iarl	iar!	Cooler Temp(including CF): 2 Container Preservati Type and # Type	# of Coolers:	Sampler: As	>	- Joject Mail	Droinct Mana	Project #:	11.35	Project Name:	□ Standard	Turn-Around Time:
com	Via:	Via:	b)					ice	100	ice	ice	100	ice	ice	Preservative Type	-	Mey G		iget. Henry	nor Alata			4-1	☑ Rush S	Time:
3/23/21 0800	Date Time	Date Time						007	0006	005	904	003	200	190	#-01224 (°C) HEAL NO. Z103A49		O BUND		Project Manager: Henvey Griven 80	6. 100 50			SD 03.09. 2021	Sameday	
55	×							7	7	/	X	X	1	X		_	I I I] 3's (8021)		1			7.5	_
81759	节	Remarks:						X	X	X	X	X	1	X	TPH;8015)(GI	RO / DF	RO /	MRO)	T _e	49			
-14	or me	0													8081 Pesti	cide	es/8082	PC	B's		Tel. 505-345-3975	4901 Hawkins NE			
6 7	Pie	ANGI													EDB (Meth	-		L.	. 4.47	-1	5-345	wkir	<	> :	E
50		146													PAHs by 8			'0SII	MS	-1	397	s NE	W .	Z	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

March 30, 2021

Ashley Giovengo Kaiser Francis Oil Company 1224 Standpipe Carlsbad, NM 88220 TEL: (575) 840-3940

FAX:

RE: 4 15 SWD 03 09 2021 Spill OrderNo.: 2103C32

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/26/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: BG01-01'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/24/2021 12:35:00 PM

 Lab ID:
 2103C32-001
 Matrix: MEOH (SOIL)
 Received Date: 3/26/2021 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: mb				
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	3/26/2021 11:04:07 AM				
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	3/26/2021 11:04:07 AM				
Surr: DNOP	106	70-130	%Rec	1	3/26/2021 11:04:07 AM				
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM				
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	3/26/2021 12:21:00 PM				
Surr: BFB	96.0	75.3-105	%Rec	1	3/26/2021 12:21:00 PM				
EPA METHOD 8021B: VOLATILES					Analyst: CCM				
Benzene	ND	0.021	mg/Kg	1	3/26/2021 12:21:00 PM				
Toluene	ND	0.043	mg/Kg	1	3/26/2021 12:21:00 PM				
Ethylbenzene	ND	0.043	mg/Kg	1	3/26/2021 12:21:00 PM				
Xylenes, Total	ND	0.086	mg/Kg	1	3/26/2021 12:21:00 PM				
Surr: 4-Bromofluorobenzene	85.5	80-120	%Rec	1	3/26/2021 12:21:00 PM				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	ND	60	mg/Kg	20	3/26/2021 9:41:49 AM				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

Analytical Report Lab Order 2103C32

Date Reported: 3/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: BG01-02'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/24/2021 12:38:00 PM

 Lab ID:
 2103C32-002
 Matrix: MEOH (SOIL)
 Received Date: 3/26/2021 7:35:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.4 mg/Kg 1 3/26/2021 11:40:23 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 3/26/2021 11:40:23 AM Surr: DNOP 97.0 70-130 %Rec 1 3/26/2021 11:40:23 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 3/26/2021 12:41:00 PM 3.2 mg/Kg 1 Surr: BFB 94.3 75.3-105 %Rec 1 3/26/2021 12:41:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.016 mg/Kg 3/26/2021 12:41:00 PM 1 Toluene ND 0.032 mg/Kg 1 3/26/2021 12:41:00 PM Ethylbenzene ND 0.032 mg/Kg 1 3/26/2021 12:41:00 PM Xylenes, Total ND 0.065 mg/Kg 1 3/26/2021 12:41:00 PM Surr: 4-Bromofluorobenzene 84.5 80-120 %Rec 1 3/26/2021 12:41:00 PM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 3/26/2021 9:54:14 AM 60 ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 8

Analytical Report Lab Order 2103C32

Date Reported: 3/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: BG02-01'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/24/2021 12:49:00 PM

 Lab ID:
 2103C32-003
 Matrix: MEOH (SOIL)
 Received Date: 3/26/2021 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/26/2021 11:26:11 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/26/2021 11:26:11 AM
Surr: DNOP	93.6	70-130	%Rec	1	3/26/2021 11:26:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	3/26/2021 1:01:00 PM
Surr: BFB	96.9	75.3-105	%Rec	1	3/26/2021 1:01:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.018	mg/Kg	1	3/26/2021 1:01:00 PM
Toluene	ND	0.037	mg/Kg	1	3/26/2021 1:01:00 PM
Ethylbenzene	ND	0.037	mg/Kg	1	3/26/2021 1:01:00 PM
Xylenes, Total	ND	0.074	mg/Kg	1	3/26/2021 1:01:00 PM
Surr: 4-Bromofluorobenzene	85.9	80-120	%Rec	1	3/26/2021 1:01:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/26/2021 10:06:39 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 8

Analytical Report Lab Order 2103C32

Date Reported: 3/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: BG02-02'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/24/2021 12:58:00 PM

 Lab ID:
 2103C32-004
 Matrix: MEOH (SOIL)
 Received Date: 3/26/2021 7:35:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 3/26/2021 1:05:30 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 3/26/2021 1:05:30 PM Surr: DNOP 84.4 70-130 %Rec 1 3/26/2021 1:05:30 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 3/26/2021 1:21:00 PM 3.7 mg/Kg 1 Surr: BFB 96.1 75.3-105 %Rec 1 3/26/2021 1:21:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM 3/26/2021 1:21:00 PM Benzene ND 0.019 mg/Kg 1 Toluene ND 0.037 mg/Kg 1 3/26/2021 1:21:00 PM Ethylbenzene ND 0.037 mg/Kg 1 3/26/2021 1:21:00 PM Xylenes, Total ND 0.075 mg/Kg 1 3/26/2021 1:21:00 PM Surr: 4-Bromofluorobenzene 84.8 80-120 %Rec 1 3/26/2021 1:21:00 PM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride 3/26/2021 10:19:05 AM 64 60 ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

#: 2103C32 30-Mar-21

WO#:

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: MB-58988 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58988 RunNo: 76237

Prep Date: 3/26/2021 Analysis Date: 3/26/2021 SeqNo: 2699809 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58988 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58988 RunNo: 76237

Prep Date: 3/26/2021 Analysis Date: 3/26/2021 SeqNo: 2699810 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.3 90 110

Sample ID: MB-58988 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58988 RunNo: 76245

Prep Date: 3/26/2021 Analysis Date: 3/26/2021 SeqNo: 2699967 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58988 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58988 RunNo: 76245

Prep Date: 3/26/2021 Analysis Date: 3/26/2021 SeqNo: 2699968 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.8 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 3/26/2021

PQL

8.3

Result

38

4.3

2103C32

WO#:

30-Mar-21

Client: Kaiser Francis Oil Company **Project:** 4 15 SWD 03 09 2021 Spill

Sample ID: MB-58987	SampT	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch	n ID: 58 9	987	F	RunNo: 7	6239					
Prep Date: 3/26/2021	Analysis D	oate: 3/ 2	26/2021	8	SeqNo: 2	699357	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10		10.00		104	70	130				
Sample ID: LCS-58987	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: LCSS	Batch	n ID: 58 9	987	F	RunNo: 7	6239					
Client ID: LCSS Prep Date: 3/26/2021	Batch Analysis D				RunNo: 7 6 SeqNo: 2 6		Units: mg/k	(g			
			26/2021				Units: mg/k	(g %RPD	RPDLimit	Qual	
Prep Date: 3/26/2021	Analysis D	oate: 3/	26/2021	5	SeqNo: 2	699358	J	Ū	RPDLimit	Qual	
Prep Date: 3/26/2021 Analyte	Analysis D	PQL	26/2021 SPK value	SPK Ref Val	SeqNo: 26	699358 LowLimit	HighLimit	Ū	RPDLimit	Qual	
Prep Date: 3/26/2021 Analyte Diesel Range Organics (DRO)	Analysis D Result 48 5.2	PQL	26/2021 SPK value 50.00 5.000	SPK Ref Val 0	%REC 96.7 104	699358 LowLimit 68.9 70	HighLimit 141	%RPD		Qual	

Sample ID: 2103C32-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: BG01-01'	Batch	ID: 58 9	987	R	tunNo: 7	6239				
Prep Date: 3/26/2021 Analysis Date: 3/26/2021 SeqNo: 2699528 Units: mg/Kg										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.9	49.26	0	77.6	15	184	0.973	23.9	
Surr: DNOP	4.8		4 926		97 9	70	130	0	0	

0

SPK value SPK Ref Val

41.74

4.174

SeqNo: 2699525

LowLimit

15

70

%REC

90.7

103

Units: mg/Kg

184

130

%RPD

RPDLimit

Qual

HighLimit

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Prep Date: 3/26/2021

Diesel Range Organics (DRO)

Surr: DNOP

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103C32 30-Mar-21

Client: Kaiser Francis Oil Company Project: 4 15 SWD 03 09 2021 Spill

Sample ID: MB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: R76246 RunNo: 76246

Prep Date: Analysis Date: 3/26/2021 SeqNo: 2699472 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 99.7 75.3 105

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

0.88

WO#: 2103C32

30-Mar-21

Client: Kaiser Francis Oil Company **Project:** 4 15 SWD 03 09 2021 Spill

Surr: 4-Bromofluorobenzene

Sample ID: MB SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: **BS76246** RunNo: 76246 Prep Date: Analysis Date: 3/26/2021 SeqNo: 2699475 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 ND Xylenes, Total 0.10 1.000 88.1 80

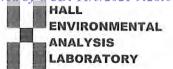
120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: Kaiser Francis Oil Work Order Number: 2103C32 RcptNo: 1 Company Received By: Juan Rojas 3/26/2021 7:35:00 AM Completed By: Cheyenne Cason 3/26/2021 8:03:18 AM Reviewed By: 3 26 21 Chain of Custody 1. Is Chain of Custody complete? Yes V No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes V NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 NA 🗌 Yes V Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? No 🗌 8. Was preservative added to bottles? No V Yes NA 📗 9. Received at least 1 vial with headspace <1/4" for AQ VOA? NA V No 🗌 Yes No V 10. Were any sample containers received broken? Yes # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes V No Checked by: Checked by: 3/75/74 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information

Page 1 of 1

Cooler No

Temp °C

1.6

Condition

Good

Seal Intact | Seal No

Seal Date

Signed By

	HALL ENVIRONMENTAL PARAMETERS AND ANALYSTS LABORATORY		37109		Analysis Request	(tu	pseu)†' 2	O9 A\fr	(1.)728 ,sOU	504 3, 0 8 3, 1 (AC	or 6 liste ov (O	Metho 8 Me 3r, 18 (AOV)	8081 P PAHs b RCRA (8260 () 8270 (9 Total C	1	-	<i>Y</i>	<i>></i>					Flease Co Shar. Mar Vester al Wescom	ag
			490	Te		_						TM (X3T8	ナ	+	7	+					Remarks:	
2	non	202.09.205				Giovergo			engo	ON [0-0=160-9	HEAL No.	8	200	6003	hos				ľ	3/19h, 927	
Turn-Around Time	Sauce Rush	-16				Project Manager: Ashley			why Giou	Yes	1	including CF):	Preservative Type	1,00	305	, ,	300					Via:	
Turn-Around	Standard	Project Name: *	28:11	Project #:		Project Mana			Sampler: Ash	On Ice:	# of Coolers:	Cooler Temp(including CF):	Container Type and #		. nr 1	1 7 x 1	101	7				Kerelved by: Via	
Chain-of-Custody Record	Society Oil		Standoise Rd	00088	(21)			☐ Level 4 (Full Validation)	npliance				Sample Name	8601-11	16-10199	86102-11	16-6003					d by:	
in-of-Cu	sor Fra	77	ess: 1224	M.M.	. 38	#:	ige:		1: Az Compliance		(e)		Matrix	S woo	808	5 000	Som S	-				Relinquished by:	
Chai	Client:	Compar	Mailing Address:	Jay 1 shad	Phone #: 505	email or Fax#:	QA/QC Package:	□ Standard	Accreditation:	□ NELAC	☐ EDD (Type)		Date Time	2	3/24/210:380	3/24/212:49						Date: Time: 2/2c/2/9.774m	111/11/11/11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

March 15, 2021

Ashley Giovengo Kaiser Francis Oil Company 1224 Standpipe Carlsbad, NM 88220 TEL: (575) 840-3940

FAX:

RE: 4 15 SWD 03 09 2021 Spill OrderNo.: 2103687

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/12/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS01- 3.5'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/9/2021 4:17:00 PM

 Lab ID:
 2103687-001
 Matrix: SOIL
 Received Date: 3/12/2021 4:40:00 PM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 9500 600 mg/Kg 200 3/13/2021 9:50:15 AM 58702 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.7 mg/Kg 3/12/2021 6:18:25 PM 58701 ND Motor Oil Range Organics (MRO) 48 mg/Kg 1 3/12/2021 6:18:25 PM 58701 Surr: DNOP 94.4 70-130 %Rec 3/12/2021 6:18:25 PM 58701 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 3/13/2021 5:17:00 PM Gasoline Range Organics (GRO) ND R75920 3.6 mg/Kg 1 Surr: BFB 87.6 75.3-105 %Rec 3/13/2021 5:17:00 PM R75920 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 3/13/2021 5:17:00 PM R75920 Benzene 0.018 mg/Kg Toluene ND 0.036 mg/Kg 3/13/2021 5:17:00 PM R75920 Ethylbenzene ND 0.036 mg/Kg 1 3/13/2021 5:17:00 PM R75920 Xylenes, Total ND 0.071 mg/Kg 3/13/2021 5:17:00 PM R75920 Surr: 4-Bromofluorobenzene 81.5 80-120 %Rec 3/13/2021 5:17:00 PM R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS03- 3.5'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/9/2021 4:25:00 PM

 Lab ID:
 2103687-002
 Matrix: SOIL
 Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	4900	150	mg/Kg	50	3/13/2021 10:02:40 AM	58702
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/12/2021 7:21:26 PM	58701
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/12/2021 7:21:26 PM	58701
Surr: DNOP	88.4	70-130	%Rec	1	3/12/2021 7:21:26 PM	58701
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	3/13/2021 11:58:00 AM	R75920
Surr: BFB	87.7	75.3-105	%Rec	1	3/13/2021 11:58:00 AM	R75920
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.019	mg/Kg	1	3/13/2021 11:58:00 AM	R75920
Toluene	ND	0.039	mg/Kg	1	3/13/2021 11:58:00 AM	R75920
Ethylbenzene	ND	0.039	mg/Kg	1	3/13/2021 11:58:00 AM	R75920
Xylenes, Total	ND	0.077	mg/Kg	1	3/13/2021 11:58:00 AM	R75920
Surr: 4-Bromofluorobenzene	84.0	80-120	%Rec	1	3/13/2021 11:58:00 AM	R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS05- 3.5'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/9/2021 4:35:00 PM

 Lab ID:
 2103687-003
 Matrix: SOIL
 Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Anal	lyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst:	VP
Chloride	7100	300		mg/Kg	100	3/13/2021	10:15:04 AM	58702
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS						Analyst:	mb
Diesel Range Organics (DRO)	93	9.1		mg/Kg	1	3/12/2021	7:58:59 PM	58701
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/12/2021	7:58:59 PM	58701
Surr: DNOP	89.4	70-130		%Rec	1	3/12/2021	7:58:59 PM	58701
EPA METHOD 8015D: GASOLINE RANGE							Analyst:	CCM
Gasoline Range Organics (GRO)	5.3	3.5		mg/Kg	1	3/13/2021	12:18:00 PM	R75920
Surr: BFB	125	75.3-105	S	%Rec	1	3/13/2021	12:18:00 PM	R75920
EPA METHOD 8021B: VOLATILES							Analyst:	CCM
Benzene	ND	0.018		mg/Kg	1	3/13/2021	12:18:00 PM	R75920
Toluene	ND	0.035		mg/Kg	1	3/13/2021	12:18:00 PM	R75920
Ethylbenzene	ND	0.035		mg/Kg	1	3/13/2021	12:18:00 PM	R75920
Xylenes, Total	ND	0.070		mg/Kg	1	3/13/2021	12:18:00 PM	R75920
Surr: 4-Bromofluorobenzene	87.8	80-120		%Rec	1	3/13/2021	12:18:00 PM	R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: BG01-0'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/9/2021 4:43:00 PM

 Lab ID:
 2103687-004
 Matrix: SOIL
 Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/12/2021 6:42:31 PM	58702
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/12/2021 8:36:21 PM	58701
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/12/2021 8:36:21 PM	58701
Surr: DNOP	83.8	70-130	%Rec	1	3/12/2021 8:36:21 PM	58701
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	3/13/2021 12:38:00 PM	R75920
Surr: BFB	91.9	75.3-105	%Rec	1	3/13/2021 12:38:00 PM	R75920
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.017	mg/Kg	1	3/13/2021 12:38:00 PM	R75920
Toluene	ND	0.033	mg/Kg	1	3/13/2021 12:38:00 PM	R75920
Ethylbenzene	ND	0.033	mg/Kg	1	3/13/2021 12:38:00 PM	R75920
Xylenes, Total	ND	0.067	mg/Kg	1	3/13/2021 12:38:00 PM	R75920
Surr: 4-Bromofluorobenzene	85.9	80-120	%Rec	1	3/13/2021 12:38:00 PM	R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS09- 0'

Project: 4 15 SWD 03 09 2021 Spill **Collection Date:** 3/9/2021 3:00:00 PM

Lab ID: 2103687-005 **Matrix:** SOIL **Received Date:** 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	400	60	mg/Kg	20	3/12/2021 6:54:56 PM	58702
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/12/2021 9:13:37 PM	58701
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/12/2021 9:13:37 PM	58701
Surr: DNOP	91.8	70-130	%Rec	1	3/12/2021 9:13:37 PM	58701
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	3/13/2021 12:58:00 PM	R75920
Surr: BFB	89.2	75.3-105	%Rec	1	3/13/2021 12:58:00 PM	R75920
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.019	mg/Kg	1	3/13/2021 12:58:00 PM	R75920
Toluene	ND	0.038	mg/Kg	1	3/13/2021 12:58:00 PM	R75920
Ethylbenzene	ND	0.038	mg/Kg	1	3/13/2021 12:58:00 PM	R75920
Xylenes, Total	ND	0.076	mg/Kg	1	3/13/2021 12:58:00 PM	R75920
Surr: 4-Bromofluorobenzene	80.9	80-120	%Rec	1	3/13/2021 12:58:00 PM	R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS11- 0'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/9/2021 3:10:00 PM

 Lab ID:
 2103687-006
 Matrix: SOIL
 Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	990	60	mg/Kg	20	3/12/2021 7:07:20 PM	58702
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/12/2021 9:50:39 PM	58701
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/12/2021 9:50:39 PM	58701
Surr: DNOP	88.9	70-130	%Rec	1	3/12/2021 9:50:39 PM	58701
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	3/13/2021 1:18:00 PM	R75920
Surr: BFB	86.8	75.3-105	%Rec	1	3/13/2021 1:18:00 PM	R75920
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.018	mg/Kg	1	3/13/2021 1:18:00 PM	R75920
Toluene	ND	0.036	mg/Kg	1	3/13/2021 1:18:00 PM	R75920
Ethylbenzene	ND	0.036	mg/Kg	1	3/13/2021 1:18:00 PM	R75920
Xylenes, Total	ND	0.073	mg/Kg	1	3/13/2021 1:18:00 PM	R75920
Surr: 4-Bromofluorobenzene	80.2	80-120	%Rec	1	3/13/2021 1:18:00 PM	R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS12- 0'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/9/2021 3:15:00 PM

 Lab ID:
 2103687-007
 Matrix: SOIL
 Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	180	59	mg/Kg	20	3/12/2021 7:19:45 PM	58702
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/12/2021 10:27:20 PM	58701
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/12/2021 10:27:20 PM	58701
Surr: DNOP	89.8	70-130	%Rec	1	3/12/2021 10:27:20 PM	58701
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	3/13/2021 1:37:00 PM	R75920
Surr: BFB	88.5	75.3-105	%Rec	1	3/13/2021 1:37:00 PM	R75920
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.016	mg/Kg	1	3/13/2021 1:37:00 PM	R75920
Toluene	ND	0.031	mg/Kg	1	3/13/2021 1:37:00 PM	R75920
Ethylbenzene	ND	0.031	mg/Kg	1	3/13/2021 1:37:00 PM	R75920
Xylenes, Total	ND	0.062	mg/Kg	1	3/13/2021 1:37:00 PM	R75920
Surr: 4-Bromofluorobenzene	84.0	80-120	%Rec	1	3/13/2021 1:37:00 PM	R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS14- 0'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/9/2021 3:25:00 PM

 Lab ID:
 2103687-008
 Matrix: SOIL
 Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2800	150	mg/Kg	50	3/13/2021 10:27:29 AM	58702
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/12/2021 11:03:45 PM	58701
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/12/2021 11:03:45 PM	58701
Surr: DNOP	97.5	70-130	%Rec	1	3/12/2021 11:03:45 PM	58701
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	3/13/2021 1:57:00 PM	R75920
Surr: BFB	86.0	75.3-105	%Rec	1	3/13/2021 1:57:00 PM	R75920
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.015	mg/Kg	1	3/13/2021 1:57:00 PM	R75920
Toluene	ND	0.031	mg/Kg	1	3/13/2021 1:57:00 PM	R75920
Ethylbenzene	ND	0.031	mg/Kg	1	3/13/2021 1:57:00 PM	R75920
Xylenes, Total	ND	0.062	mg/Kg	1	3/13/2021 1:57:00 PM	R75920
Surr: 4-Bromofluorobenzene	81.2	80-120	%Rec	1	3/13/2021 1:57:00 PM	R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS16- 0'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/9/2021 3:38:00 PM

 Lab ID:
 2103687-009
 Matrix: SOIL
 Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	3900	150	mg/Kg	50	3/13/2021 10:39:53 AM	58702
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	∶mb
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/12/2021 11:40:01 PM	58701
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/12/2021 11:40:01 PM	58701
Surr: DNOP	87.7	70-130	%Rec	1	3/12/2021 11:40:01 PM	58701
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	2.6	mg/Kg	1	3/13/2021 2:17:00 PM	R75920
Surr: BFB	88.1	75.3-105	%Rec	1	3/13/2021 2:17:00 PM	R75920
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.013	mg/Kg	1	3/13/2021 2:17:00 PM	R75920
Toluene	ND	0.026	mg/Kg	1	3/13/2021 2:17:00 PM	R75920
Ethylbenzene	ND	0.026	mg/Kg	1	3/13/2021 2:17:00 PM	R75920
Xylenes, Total	ND	0.052	mg/Kg	1	3/13/2021 2:17:00 PM	R75920
Surr: 4-Bromofluorobenzene	81.8	80-120	%Rec	1	3/13/2021 2:17:00 PM	R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS08- 0.5'

 Project:
 4 15 SWD 03 09 2021 Spill
 Collection Date: 3/9/2021 2:58:00 PM

 Lab ID:
 2103687-010
 Matrix: SOIL
 Received Date: 3/12/2021 4:40:00 PM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 5000 150 mg/Kg 50 3/13/2021 10:52:18 AM 58702 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) 23 9.4 mg/Kg 3/13/2021 12:16:07 AM 58701 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 3/13/2021 12:16:07 AM 58701 Surr: DNOP 90.3 3/13/2021 12:16:07 AM 58701 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 3/13/2021 2:37:00 PM Gasoline Range Organics (GRO) 23 R75920 3.1 mg/Kg Surr: BFB 236 75.3-105 S %Rec 3/13/2021 2:37:00 PM R75920 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.015 3/13/2021 2:37:00 PM R75920 Benzene mg/Kg Toluene ND 0.031 mg/Kg 3/13/2021 2:37:00 PM R75920 Ethylbenzene 0.049 0.031 mg/Kg 1 3/13/2021 2:37:00 PM R75920 Xylenes, Total 0.062 mg/Kg 3/13/2021 2:37:00 PM R75920 0.25 Surr: 4-Bromofluorobenzene 108 80-120 %Rec 3/13/2021 2:37:00 PM R75920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103687** *15-Mar-21*

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: MB-58702 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58702 RunNo: 75898

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686278 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58702 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58702 RunNo: 75898

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686280 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.6 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103687**

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: MB-58686 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58686 RunNo: 75910

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SegNo: 2685926 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 9.1 10.00 90.7 70 130

Sample ID: LCS-58686 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58686 RunNo: 75910

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2685927 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.5 5.000 89.1 70 130

Sample ID: 2103626-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 58686 RunNo: 75910

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2685928 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.1 4.371 93.5 70 130

Sample ID: 2103626-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 58686 RunNo: 75910

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2685929 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.3 4.859 88.2 70 130 0 0

Sample ID: MB-58701 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58701 RunNo: 75910

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686263 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.3 10.00 82.6 70 130

Sample ID: LCS-58701 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58701 RunNo: 75910

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686279 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) 41 10 50.00 0 82.1 68.9 141

 Surr: DNOP
 4.1
 5.000
 81.6
 70
 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103687** *15-Mar-21*

Qual

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: 2103687-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: \$\$01- 3.5' RunNo: 75910 Batch ID: 58701 Units: mg/Kg Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686310 PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 0 41 9.7 48.54 83.9 15 184

Surr: DNOP 4.2 4.854 85.6 70 130 Sample ID: 2103687-001AMSD TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MSD Client ID: \$\$01- 3.5' Batch ID: 58701 RunNo: 75910 Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686313 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Diesel Range Organics (DRO) 23.9 42 9.8 49.16 0 85.7 15 184 3.41 Surr: DNOP 4.1 4.916 84.2 70 0 0 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103687** *15-Mar-21*

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: 2103687-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: SS01- 3.5' Batch ID: R75920 RunNo: 75920

Prep Date: Analysis Date: 3/13/2021 SeqNo: 2686659 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0 Gasoline Range Organics (GRO) 18 3.6 17.76 103 61.3 114

Surr: BFB 720 710.2 101 75.3 105

Sample ID: 2103687-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **\$\$01- 3.5'** Batch ID: **R75920** RunNo: **75920**

Prep Date: Analysis Date: 3/13/2021 SeqNo: 2686660 Units: mg/Kg

RPDLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) 18 3.6 17.76 0 100 61.3 114 2.75 20 Surr: BFB 710 710.2 100 75.3 105 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103687**

15-Mar-21

Client: Kaiser Francis Oil Company
Project: 4 15 SWD 03 09 2021 Spill

Sample ID: 2103687-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: SS03- 3.5'	Batch ID: R75920			F	RunNo: 7	5920				
Prep Date:	Analysis Date: 3/13/2021			S	SeqNo: 2686677			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.77	0.077	0.7722	0	99.5	78.1	153			
Benzene	0.75	0.019	0.7722	0	96.5	76.3	120			
Toluene	0.72	0.039	0.7722	0	93.5	78.5	120			
Ethylbenzene	0.72	0.039	0.7722	0	92.6	78.1	124			
Xylenes, Total	2.1	0.077	2.317	0	91.9	79.3	125			
Surr: 4-Bromofluorobenzene	0.62		0.7722		80.0	80	120			

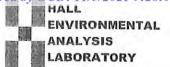
Sample ID: 2103687-002amsd	SampT	уре: М	SD	TestCode: EPA Method 8021B: Volatiles							
Client ID: \$\$03- 3.5'	03- 3.5' Batch ID: R75920				RunNo: 75920						
Prep Date:	Analysis Date: 3/13/2021			SeqNo: 2686678			Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.72	0.019	0.7722	0	92.8	76.3	120	3.88	20		
Toluene	0.70	0.039	0.7722	0	90.3	78.5	120	3.45	20		
Ethylbenzene	0.69	0.039	0.7722	0	89.7	78.1	124	3.22	20		
Xylenes, Total	2.1	0.077	2.317	0	89.1	79.3	125	3.08	20		
Surr: 4-Bromofluorobenzene	0.61		0.7722		79.5	80	120	0	0	S	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Kaiser Francis Oil Work Order Number: 2103687 RcptNo: 1 Company Received By: Sean Livingston 3/12/2021 4:40:00 PM Completed By: **Desiree Dominguez** 3/12/2021 4:47:15 PM 3/12/21 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes V No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes 🗸 NA 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes V NA 🗌 Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes V No 🗌 7. Are samples (except VOA and ONG) properly preserved? No T V 8. Was preservative added to bottles? Yes [No V NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA V 10. Were any sample containers received broken? No V Yes # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 13. Is it clear what analyses were requested? Yes V No 🗌 14. Were all holding times able to be met? Checked by: 50x 3 12 21 Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🔲 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1 5.6 Good

Chain-or-Custody Record	Turn-Around Time.	MA		I	HAII	ZZ	TRO	FNVTRONMENTAL	
aiser Francis Oil	□ Standard ☑ Rush	" X" Same-day		. 4	NAL	YSI	N IA	ANALYSIS LABORATOR	. >
	e: 4-15	SWD - 03.09.			ww.hall	environ	www.hallenvironmental.com	шо	
224 Standor or Rd	7		490	4901 Hawkins NE	IS NE	Albuqu	erque, N	Albuquerque, NM 87109	. 11/.
	Project #:		Tel.	. 505-345-3975	5-3975	Fax	Fax 505-345-4107	-4107	,, 20,
SOB-382-1211		+			Ā	nalysis	Analysis Request	11	
g. girvenga Dwescomine	Project Manager: Ashle	Ashley Giovengo	8021) MRO)	s,g:		*OS '*((Juesd		:28:05 /
☐ Level 4 (Full Validation)				Dd		Dd	A\tr		11/1
□ Az Compliance	Sampler: Achter 6:	14 m 50				10 ²	iəse		
	E-Yes	□ No	1		S	N "			
	olers:			-1,77	stals				
	Cooler Temp(including CF): 5.	610=56 (°C)			∍W :			-(4)	
Matrix Sample Name	Container Preservative Type	HEAL NO. 2103687	\(X3TB)	8081 Pe	а еная	(CI) E' B	8) 0728 Total Co		
\$ <<01-3.5'	201	100/	X			X			
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,505-3.5	iarlice	-003	X			X			
-	-	h00-	×			X			
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	1	-007	X			X			
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Relinquished by:	Received by: Via: U	Date Time	ING-		Ashley Giovenso	OVEN	20		e 99 of



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

March 25, 2021

Ashley Giovengo Kaiser Francis Oil Company 1224 Standpipe Carlsbad, NM 88220 TEL: (575) 840-3940

FAX

RE: 4-15 SWD 03.09.2021 Spill OrderNo.: 2103949

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/19/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2103949

Date Reported: 3/25/2021

3/19/2021 8:34:23 AM

3/19/2021 8:34:23 AM

3/19/2021 9:55:26 AM

Analyst: VP

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS17-1'

 Project:
 4-15 SWD 03.09.2021 Spill
 Collection Date: 3/17/2021 2:00:00 PM

 Lab ID:
 2103949-001
 Matrix: MEOH (SOIL)
 Received Date: 3/19/2021 7:50:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 13 9.7 mg/Kg 1 3/19/2021 9:37:59 AM Motor Oil Range Organics (MRO) ND 3/19/2021 9:37:59 AM 48 mg/Kg 1 Surr: DNOP 97.6 70-130 %Rec 1 3/19/2021 9:37:59 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/19/2021 8:34:23 AM 5.0 mg/Kg 1 Surr: BFB 101 75.3-105 %Rec 1 3/19/2021 8:34:23 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 3/19/2021 8:34:23 AM 1 Toluene ND 0.050 mg/Kg 1 3/19/2021 8:34:23 AM Ethylbenzene ND 0.050 mg/Kg 1 3/19/2021 8:34:23 AM

ND

102

1000

0.10

60

80-120

mg/Kg

%Rec

ma/Ka

1

1

20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS21-0'

 Project:
 4-15 SWD 03.09.2021 Spill
 Collection Date: 3/17/2021 10:00:00 AM

 Lab ID:
 2103949-002
 Matrix: MEOH (SOIL)
 Received Date: 3/19/2021 7:50:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 18 9.8 mg/Kg 1 3/19/2021 1:39:28 PM Motor Oil Range Organics (MRO) 71 49 mg/Kg 1 3/19/2021 1:39:28 PM Surr: DNOP 84.2 70-130 %Rec 1 3/19/2021 1:39:28 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/19/2021 8:57:58 AM 5.0 mg/Kg 1 Surr: BFB 97.5 75.3-105 %Rec 1 3/19/2021 8:57:58 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB 3/19/2021 8:57:58 AM Benzene ND 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 3/19/2021 8:57:58 AM Ethylbenzene ND 0.050 mg/Kg 1 3/19/2021 8:57:58 AM Xylenes, Total ND 0.10 mg/Kg 1 3/19/2021 8:57:58 AM Surr: 4-Bromofluorobenzene 98.6 80-120 %Rec 1 3/19/2021 8:57:58 AM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 61 3/19/2021 10:07:51 AM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 11

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS24-0'

 Project:
 4-15 SWD 03.09.2021 Spill
 Collection Date: 3/17/2021 10:06:00 AM

 Lab ID:
 2103949-003
 Matrix: MEOH (SOIL)
 Received Date: 3/19/2021 7:50:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 8.9 mg/Kg 1 3/19/2021 10:01:21 AM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 3/19/2021 10:01:21 AM Surr: DNOP 97.3 70-130 %Rec 1 3/19/2021 10:01:21 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/19/2021 9:21:38 AM 5.0 mg/Kg 1 Surr: BFB 96.6 75.3-105 %Rec 1 3/19/2021 9:21:38 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 3/19/2021 9:21:38 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 3/19/2021 9:21:38 AM Ethylbenzene ND 0.050 mg/Kg 1 3/19/2021 9:21:38 AM Xylenes, Total ND 0.10 mg/Kg 1 3/19/2021 9:21:38 AM 3/19/2021 9:21:38 AM Surr: 4-Bromofluorobenzene 96.5 80-120 %Rec 1 Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 60 3/19/2021 10:20:15 AM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS31-1'

Project: 4-15 SWD 03.09.2021 Spill **Collection Date:** 3/17/2021 2:38:00 PM

Lab ID: 2103949-004 **Matrix:** MEOH (SOIL) **Received Date:** 3/19/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/19/2021 10:13:08 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/19/2021 10:13:08 AM
Surr: DNOP	99.2	70-130	%Rec	1	3/19/2021 10:13:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/19/2021 9:45:14 AM
Surr: BFB	95.7	75.3-105	%Rec	1	3/19/2021 9:45:14 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/19/2021 9:45:14 AM
Toluene	ND	0.050	mg/Kg	1	3/19/2021 9:45:14 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/19/2021 9:45:14 AM
Xylenes, Total	ND	0.10	mg/Kg	1	3/19/2021 9:45:14 AM
Surr: 4-Bromofluorobenzene	95.8	80-120	%Rec	1	3/19/2021 9:45:14 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	180	60	mg/Kg	20	3/19/2021 10:32:40 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 11

Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS33-0'

 Project:
 4-15 SWD 03.09.2021 Spill
 Collection Date: 3/17/2021 3:22:00 PM

 Lab ID:
 2103949-005
 Matrix: MEOH (SOIL)
 Received Date: 3/19/2021 7:50:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 3/19/2021 10:25:00 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/19/2021 10:25:00 AM Surr: DNOP 92.2 70-130 %Rec 1 3/19/2021 10:25:00 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/19/2021 10:08:34 AM 5.0 mg/Kg 1 Surr: BFB 102 75.3-105 %Rec 1 3/19/2021 10:08:34 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 3/19/2021 10:08:34 AM 1 Toluene ND 0.050 mg/Kg 1 3/19/2021 10:08:34 AM Ethylbenzene ND 0.050 mg/Kg 1 3/19/2021 10:08:34 AM Xylenes, Total ND 0.10 mg/Kg 1 3/19/2021 10:08:34 AM Surr: 4-Bromofluorobenzene 103 80-120 %Rec 1 3/19/2021 10:08:34 AM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 60 3/19/2021 10:45:04 AM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/25/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kaiser Francis Oil Company Client Sample ID: SS38-4'

 Project:
 4-15 SWD 03.09.2021 Spill
 Collection Date: 3/17/2021 4:36:00 PM

 Lab ID:
 2103949-006
 Matrix: MEOH (SOIL)
 Received Date: 3/19/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/19/2021 10:36:50 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/19/2021 10:36:50 AM
Surr: DNOP	107	70-130	%Rec	1	3/19/2021 10:36:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/19/2021 10:32:06 AM
Surr: BFB	104	75.3-105	%Rec	1	3/19/2021 10:32:06 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/19/2021 10:32:06 AM
Toluene	ND	0.050	mg/Kg	1	3/19/2021 10:32:06 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/19/2021 10:32:06 AM
Xylenes, Total	ND	0.10	mg/Kg	1	3/19/2021 10:32:06 AM
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	3/19/2021 10:32:06 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5600	300	mg/Kg	100	3/19/2021 11:22:17 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **2103949 25-Mar-21**

Client: Kaiser Francis Oil Company
Project: 4-15 SWD 03.09.2021 Spill

Sample ID: MB-58846 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58846 RunNo: 76062

Prep Date: 3/19/2021 Analysis Date: 3/19/2021 SeqNo: 2693169 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58846 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58846 RunNo: 76062

Prep Date: 3/19/2021 Analysis Date: 3/19/2021 SeqNo: 2693170 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.9 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103949**

25-Mar-21

Client: Kaiser Francis Oil Company Project: 4-15 SWD 03.09.2021 Spill

Sample ID: MB-58835	SampType:	MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID:	58835	R	unNo: 76061						
Prep Date: 3/19/2021	Analysis Date:	3/19/2021	Se	eqNo: 2692540	Units: mg/Kg					
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.6	10.00		76.2 70	130					
Sample ID: LCS-58835	SampType:	LCS	Test	Code: EPA Method	8015M/D: Diesel Ra	nge Organics				
Client ID: LCSS	Batch ID:	58835	R	unNo: 76061						
Prep Date: 3/19/2021	Analysis Date:	3/19/2021	S	eqNo: 2692543	Units: mg/Kg					
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual			
Diesel Range Organics (DRO)	48	10 50.00	0	95.6 68.9	141					
Surr: DNOP	3.9	5.000		77.3 70	130					
Sample ID: 2103949-001AMS	SampType:	MS	Test	Code: EPA Method	8015M/D: Diesel Ra	nge Organics				
Client ID: SS17-1'	Batch ID:	58835	RunNo: 76064							
Prep Date: 3/19/2021	Analysis Date:	3/19/2021	Se	eqNo: 2693641	Units: mg/Kg					
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual			
Diesel Range Organics (DRO)	49 9	9.0 44.92	12.58	81.6 15	184					
Surr: DNOP	4.2	4.492		93.2 70	130					
Sample ID: 2103949-001AMS	SD SampType:	MSD	Test	Code: EPA Method	de: EPA Method 8015M/D: Diesel Range Organics					
Client ID: SS17-1'	Batch ID:	58835	RunNo: 76064							
Prep Date: 3/19/2021	Analysis Date:	3/19/2021	Se	eqNo: 2693642	Units: mg/Kg					
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual			
Diesel Range Organics (DRO)	48 8	8.5 42.74	12.58	82.8 15	184 2.5	9 23.9				
Surr: DNOP	4.0	4.274		93.3 70	130	0 0				
Sample ID: MB-58798	SampType:	MBLK	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID:	58798	R	unNo: 76064						
Prep Date: 3/18/2021	Analysis Date:	3/19/2021	Se	eqNo: 2693658	Units: %Rec					
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual			
Surr: DNOP	9.7	10.00		97.0 70	130					
Sample ID: LCS-58798	SampType:	LCS	Test	Code: EPA Method	8015M/D: Diesel Ra	nge Organics				
Client ID: 1 CCC	Datab ID:	F0700	5	N. = =0004						

Qualifiers:

Analyte

Client ID: LCSS

Prep Date: 3/18/2021

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Batch ID: 58798

Analysis Date: 3/19/2021

PQL

Result

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

RunNo: 76064

%REC

SeqNo: 2693659

LowLimit

Units: %Rec

HighLimit

%RPD

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val

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RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **2103949 25-Mar-21**

Client: Kaiser Francis Oil Company
Project: 4-15 SWD 03.09.2021 Spill

Sample ID: LCS-58798 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58798 RunNo: 76064

Prep Date: 3/18/2021 Analysis Date: 3/19/2021 SeqNo: 2693659 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.5 5.000 90.8 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

2103949 25-Mar-21

Client: Kaiser Francis Oil Company **Project:** 4-15 SWD 03.09.2021 Spill

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G76071 RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693889 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 99.7 75.3 105

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G76071 RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693890 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 82.7 80 120 Surr: BFB 1100 S 1000 113 75.3 105

Sample ID: 2103949-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: SS17-1' Batch ID: G76071 RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693909 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 23 5.0 25.00 0 93.4 61.3 114 Surr: BFB S 1200 1000 115 75.3 105

Sample ID: 2103949-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SS17-1' Batch ID: G76071 RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693910 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 22 5.0 25.00 87.8 61.3 6.14 114 20 Surr: BFB 1200 1000 117 75.3 105 0 0 S

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 10 of 11

Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: 2103949

25-Mar-21

Client: Kaiser Francis Oil Company **Project:** 4-15 SWD 03.09.2021 Spill

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: **B76071** RunNo: 76071 Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693940 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Benzene ND 0.025 ND 0.050

Toluene 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 99.9 80 120

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: **B76071** RunNo: 76071 Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693941 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.90 0.025 n 90.5 80 120 Benzene Toluene 0.91 0.050 1.000 0 91.0 80 120 0 90.6 80 0.91 0.050 1.000 120 Ethylbenzene 0 90.0 Xylenes, Total 2.7 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID: 2103949-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: SS21-0' Batch ID: **B76071** RunNo: 76071 Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693960 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 87.4 76.3 0.87 1.000 120 Benzene O 0.89 0.050 1.000 0 88.9 78.5 120 Toluene 0.050 0 88.4 78.1 124 Ethylbenzene 0.88 1.000 Xylenes, Total 2.6 0.10 3.000 0 88.0 79.3 125

1.000

TestCode: EPA Method 8021B: Volatiles Sample ID: 2103949-002amsd SampType: MSD Client ID: SS21-0¹ Batch ID: **B76071** RunNo: 76071 Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693961 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual 0.87 0.025 1.000 0 86.9 76.3 120 0.505 20 Benzene Toluene 0.88 0.050 1.000 0 88.5 78.5 120 0.462 20 Ethylbenzene 0.88 0.050 1.000 0 87.5 78.1 124 1.07 20 Xylenes, Total 2.6 0.10 3.000 0 86.9 79.3 125 1.25 20 Surr: 4-Bromofluorobenzene 1.000 106 120 0 0 1.1 80

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

102

80

120

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Website: clients.hallenvironmental.com

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Client Name:	Kaiser Francis Oil Company	Work Order Number:	2103	3949			RcptNo: 1
Received By:	Cheyenne Cason	3/19/2021 7:50:00 AM					
Completed By:	Cheyenne Cason	3/19/2021 8:01:09 AM					
Reviewed By:	DAD 3/19/21						
Chain of Cus	tody						
1. Is Chain of C	ustody complete?		Yes	V	No		Not Present
2. How was the	sample delivered?		Cour	rier			
Log In							
The second secon	npt made to cool the sample	s?	Yes	V	No		NA 🗆
4. Were all samp	ples received at a temperatu	ure of >0° C to 6.0°C	Yes	v	No		NA 🗆
5. Sample(s) in	proper container(s)?		Yes	V	No		
6. Sufficient sam	nple volume for indicated tes	st(s)?	Yes	V	No		
7. Are samples (except VOA and ONG) prop	perly preserved?	Yes	V	No		
8. Was preserva	tive added to bottles?		Yes		No	V	NA 🗌
9. Received at le	east 1 vial with headspace <	1/4" for AQ VOA?	Yes		No		NA 🗹
10. Were any sar	mple containers received bro	oken?	Yes		No	V	# of preserved
	ork match bottle labels? ancies on chain of custody)		Yes	V	No		bottles checked for pH: (<2 or>12 unless noted)
12. Are matrices	correctly identified on Chain	of Custody?	Yes	V	No		Adjusted?
13, Is it clear wha	t analyses were requested?		Yes	V	No		
	ng times able to be met? ustomer for authorization.)		Yes	V	No		Checked by: 56L 3/14/21
Special Handl	ing (if applicable)						
15. Was client no	otified of all discrepancies w	ith this order?	Yes		No		NA 🗹
Person	Notified:	Date:	_			_	
By Who	om:	Via:	eM:	ail 🗌	Phone [Fax	☐ In Person
Regard	ing:						
Client I	nstructions:						
16. Additional re	marks:						
17. Cooler Infor Cooler No		Seal Intact Seal No S	eal D	ate	Signed	Ву	
2	2.3 Good						

Received by OCD: 11/5/2021 9:28:05 AM Page 113 of 156 shar. harvester we scomin ANALYSIS LABORATORY HALL ENVIRONMENTAL 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com Analysis Request Total Coliform (Present/Absent) 0 (AOV-im92) 07S8 Ashley Giovens (AOV) 09S8 NO3' NO5, PO4, SO4 on presults Br, Please cc Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 82705IMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: ANGI PH:8015D(GRO / DRO / MRO) · co m (1208) s'BMT MTBE / (XETEX) (S) Project Name: 4-15 5WD 63.01.2021 3/18/21 830 820 FRUSH Sameday email or Fax#: ashley-giovengo Jusescominac Project Manager: Ashley Giovengo 2103949 HEAL No. Time Cooler Temp(including cF): 2.1+0.2>2.5 000 0003 00 284 85 # of Coolers: 2 06+0.2 = 6.8 300 Date Date 2/6/18 Sampler: Ashley Gioven 50 Preservative Yes 100 100 ice Con Turn-Around Time: Type □ Standard Type and # 111125 Container Project #: Received by: Received by: On Ice: A K ar ar ☐ Level 4 (Full Validation) 1224 Stand 11:00 Rd Chain-of-Custody Record Sample Name -4-Carlsbad, N.M. 88720 10-4255 5531-1, Olient: Kaiser Francis Oil 5533-01 5521-0 allemmen 1-4155 hone #: 505 - 382 - 12 11 □ Az Compliance Relinquished by: Relinquished by: □ Other Matrix S S 5 Sundailing Address: 5 17/21 10:00am 3/17/21/10:06a 3/17/21/2:00pm 3/17/212:38pm 3/17/214:36pm QA/QC Package: 3/17/213:22 pm Time ☐ EDD (Type) Accreditation: ☐ Standard Time: Time: 1900 □ NELAC Date Male Date:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

October 13, 2021

Ashley Giovengo Wescom Inc 1907 San Jose Blvd. Apt. 425 Carlsbad, NM 88220 TEL: FAX

RE: NBL Unit 4 15 SWD 03 09 21 Spill Unit KFOC OrderNo.: 2110012

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 18 sample(s) on 10/1/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF01-15'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 9:12:00 AM

 Lab ID:
 2110012-001
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/8/2021 6:52:48 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/8/2021 6:52:48 PM
Surr: DNOP	109	70-130	%Rec	1	10/8/2021 6:52:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/7/2021 8:13:00 AM
Surr: BFB	101	70-130	%Rec	1	10/7/2021 8:13:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/7/2021 8:13:00 AM
Toluene	ND	0.047	mg/Kg	1	10/7/2021 8:13:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/7/2021 8:13:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/7/2021 8:13:00 AM
Surr: 4-Bromofluorobenzene	91.2	70-130	%Rec	1	10/7/2021 8:13:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	2800	150	mg/Kg	50	10/8/2021 9:10:03 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 25

Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF02-8'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 9:25:00 AM

 Lab ID:
 2110012-002
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/8/2021 7:05:28 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/8/2021 7:05:28 PM
Surr: DNOP	79.9	70-130	%Rec	1	10/8/2021 7:05:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/7/2021 1:37:00 PM
Surr: BFB	95.9	70-130	%Rec	1	10/7/2021 1:37:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/7/2021 1:37:00 PM
Toluene	ND	0.047	mg/Kg	1	10/7/2021 1:37:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/7/2021 1:37:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/7/2021 1:37:00 PM
Surr: 4-Bromofluorobenzene	87.1	70-130	%Rec	1	10/7/2021 1:37:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1300	60	mg/Kg	20	10/6/2021 12:33:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF03-5'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 9:31:00 AM

 Lab ID:
 2110012-003
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/8/2021 7:18:10 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/8/2021 7:18:10 PM
Surr: DNOP	85.7	70-130	%Rec	1	10/8/2021 7:18:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/7/2021 1:57:00 PM
Surr: BFB	96.6	70-130	%Rec	1	10/7/2021 1:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	10/7/2021 1:57:00 PM
Toluene	ND	0.050	mg/Kg	1	10/7/2021 1:57:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/7/2021 1:57:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/7/2021 1:57:00 PM
Surr: 4-Bromofluorobenzene	88.7	70-130	%Rec	1	10/7/2021 1:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	210	60	mg/Kg	20	10/6/2021 12:46:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF04-4'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 9:43:00 AM

 Lab ID:
 2110012-004
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/8/2021 7:30:53 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/8/2021 7:30:53 PM
Surr: DNOP	97.4	70-130	%Rec	1	10/8/2021 7:30:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/7/2021 2:16:00 PM
Surr: BFB	98.2	70-130	%Rec	1	10/7/2021 2:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/7/2021 2:16:00 PM
Toluene	ND	0.048	mg/Kg	1	10/7/2021 2:16:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/7/2021 2:16:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/7/2021 2:16:00 PM
Surr: 4-Bromofluorobenzene	89.4	70-130	%Rec	1	10/7/2021 2:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1500	59	mg/Kg	20	10/6/2021 12:58:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF05-9'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 9:58:00 AM

 Lab ID:
 2110012-005
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/8/2021 7:43:26 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/8/2021 7:43:26 PM
Surr: DNOP	107	70-130	%Rec	1	10/8/2021 7:43:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/7/2021 5:32:00 PM
Surr: BFB	102	70-130	%Rec	1	10/7/2021 5:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/7/2021 5:32:00 PM
Toluene	ND	0.048	mg/Kg	1	10/7/2021 5:32:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/7/2021 5:32:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/7/2021 5:32:00 PM
Surr: 4-Bromofluorobenzene	87.6	70-130	%Rec	1	10/7/2021 5:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1900	60	mg/Kg	20	10/6/2021 1:11:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF06-5'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 10:14:00 AM

 Lab ID:
 2110012-006
 Matrix:
 SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/8/2021 7:56:11 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/8/2021 7:56:11 PM
Surr: DNOP	102	70-130	%Rec	1	10/8/2021 7:56:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/7/2021 5:52:00 PM
Surr: BFB	100	70-130	%Rec	1	10/7/2021 5:52:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/7/2021 5:52:00 PM
Toluene	ND	0.049	mg/Kg	1	10/7/2021 5:52:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/7/2021 5:52:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/7/2021 5:52:00 PM
Surr: 4-Bromofluorobenzene	87.8	70-130	%Rec	1	10/7/2021 5:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1000	60	mg/Kg	20	10/6/2021 1:23:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF07-5'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 10:30:00 AM

 Lab ID:
 2110012-007
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/8/2021 8:09:02 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/8/2021 8:09:02 PM
Surr: DNOP	91.9	70-130	%Rec	1	10/8/2021 8:09:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/7/2021 6:11:00 PM
Surr: BFB	102	70-130	%Rec	1	10/7/2021 6:11:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/7/2021 6:11:00 PM
Toluene	ND	0.048	mg/Kg	1	10/7/2021 6:11:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/7/2021 6:11:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/7/2021 6:11:00 PM
Surr: 4-Bromofluorobenzene	82.7	70-130	%Rec	1	10/7/2021 6:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1100	60	mg/Kg	20	10/6/2021 2:00:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF08-4.5'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 10:38:00 AM

 Lab ID:
 2110012-008
 Matrix:
 SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/8/2021 8:21:40 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/8/2021 8:21:40 PM
Surr: DNOP	113	70-130	%Rec	1	10/8/2021 8:21:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/7/2021 6:31:00 PM
Surr: BFB	92.4	70-130	%Rec	1	10/7/2021 6:31:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/7/2021 6:31:00 PM
Toluene	ND	0.049	mg/Kg	1	10/7/2021 6:31:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/7/2021 6:31:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/7/2021 6:31:00 PM
Surr: 4-Bromofluorobenzene	85.8	70-130	%Rec	1	10/7/2021 6:31:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	2200	150	mg/Kg	50	10/7/2021 7:42:40 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF09-4.5'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 10:42:00 AM

 Lab ID:
 2110012-009
 Matrix:
 SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/8/2021 8:34:50 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/8/2021 8:34:50 PM
Surr: DNOP	86.1	70-130	%Rec	1	10/8/2021 8:34:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/7/2021 6:50:00 PM
Surr: BFB	99.0	70-130	%Rec	1	10/7/2021 6:50:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/7/2021 6:50:00 PM
Toluene	ND	0.047	mg/Kg	1	10/7/2021 6:50:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/7/2021 6:50:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/7/2021 6:50:00 PM
Surr: 4-Bromofluorobenzene	88.5	70-130	%Rec	1	10/7/2021 6:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	680	60	mg/Kg	20	10/6/2021 2:25:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF10-4

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 10:45:00 AM

 Lab ID:
 2110012-010
 Matrix:
 SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/8/2021 8:47:23 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/8/2021 8:47:23 PM
Surr: DNOP	80.7	70-130	%Rec	1	10/8/2021 8:47:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/7/2021 7:10:00 PM
Surr: BFB	99.2	70-130	%Rec	1	10/7/2021 7:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/7/2021 7:10:00 PM
Toluene	ND	0.048	mg/Kg	1	10/7/2021 7:10:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/7/2021 7:10:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/7/2021 7:10:00 PM
Surr: 4-Bromofluorobenzene	88.4	70-130	%Rec	1	10/7/2021 7:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	2100	60	mg/Kg	20	10/6/2021 2:38:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF11-5'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 10:52:00 AM

 Lab ID:
 2110012-011
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/8/2021 9:10:10 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/8/2021 9:10:10 AM
Surr: DNOP	106	70-130	%Rec	1	10/8/2021 9:10:10 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/7/2021 11:59:19 AM
Surr: BFB	93.4	70-130	%Rec	1	10/7/2021 11:59:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	10/7/2021 11:59:19 AM
Toluene	ND	0.049	mg/Kg	1	10/7/2021 11:59:19 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/7/2021 11:59:19 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/7/2021 11:59:19 AM
Surr: 4-Bromofluorobenzene	83.7	70-130	%Rec	1	10/7/2021 11:59:19 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	730	59	mg/Kg	20	10/6/2021 2:50:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF12-5'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 10:58:00 AM

 Lab ID:
 2110012-012
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	10/8/2021 9:41:51 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/8/2021 9:41:51 AM
Surr: DNOP	101	70-130	%Rec	1	10/8/2021 9:41:51 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/7/2021 1:10:25 PM
Surr: BFB	91.8	70-130	%Rec	1	10/7/2021 1:10:25 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	10/7/2021 1:10:25 PM
Toluene	ND	0.048	mg/Kg	1	10/7/2021 1:10:25 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/7/2021 1:10:25 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/7/2021 1:10:25 PM
Surr: 4-Bromofluorobenzene	82.5	70-130	%Rec	1	10/7/2021 1:10:25 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1900	60	mg/Kg	20	10/6/2021 3:02:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF13-4'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 11:08:00 AM

 Lab ID:
 2110012-013
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/8/2021 9:52:27 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/8/2021 9:52:27 AM
Surr: DNOP	106	70-130	%Rec	1	10/8/2021 9:52:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/7/2021 2:20:55 PM
Surr: BFB	90.9	70-130	%Rec	1	10/7/2021 2:20:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	10/7/2021 2:20:55 PM
Toluene	ND	0.048	mg/Kg	1	10/7/2021 2:20:55 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/7/2021 2:20:55 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/7/2021 2:20:55 PM
Surr: 4-Bromofluorobenzene	82.0	70-130	%Rec	1	10/7/2021 2:20:55 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	150	60	mg/Kg	20	10/6/2021 3:40:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF14-4'

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 11:12:00 AM

 Lab ID:
 2110012-014
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	10/8/2021 10:03:04 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/8/2021 10:03:04 AM
Surr: DNOP	105	70-130	%Rec	1	10/8/2021 10:03:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/7/2021 2:44:22 PM
Surr: BFB	92.6	70-130	%Rec	1	10/7/2021 2:44:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	10/7/2021 2:44:22 PM
Toluene	ND	0.047	mg/Kg	1	10/7/2021 2:44:22 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/7/2021 2:44:22 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/7/2021 2:44:22 PM
Surr: 4-Bromofluorobenzene	83.0	70-130	%Rec	1	10/7/2021 2:44:22 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	240	61	mg/Kg	20	10/6/2021 3:52:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF15-Wall

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 11:29:00 AM

 Lab ID:
 2110012-015
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/8/2021 10:13:40 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/8/2021 10:13:40 AM
Surr: DNOP	118	70-130	%Rec	1	10/8/2021 10:13:40 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/7/2021 3:08:04 PM
Surr: BFB	92.1	70-130	%Rec	1	10/7/2021 3:08:04 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	10/7/2021 3:08:04 PM
Toluene	ND	0.048	mg/Kg	1	10/7/2021 3:08:04 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/7/2021 3:08:04 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/7/2021 3:08:04 PM
Surr: 4-Bromofluorobenzene	82.0	70-130	%Rec	1	10/7/2021 3:08:04 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	22000	1500	mg/Kg	500	10/7/2021 7:55:05 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF16-Wall

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 11:39:00 AM

 Lab ID:
 2110012-016
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/8/2021 10:24:18 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/8/2021 10:24:18 AM
Surr: DNOP	108	70-130	%Rec	1	10/8/2021 10:24:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/7/2021 3:31:30 PM
Surr: BFB	92.0	70-130	%Rec	1	10/7/2021 3:31:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	10/7/2021 3:31:30 PM
Toluene	ND	0.049	mg/Kg	1	10/7/2021 3:31:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/7/2021 3:31:30 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/7/2021 3:31:30 PM
Surr: 4-Bromofluorobenzene	82.0	70-130	%Rec	1	10/7/2021 3:31:30 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	390	60	mg/Kg	20	10/6/2021 4:42:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF17-Wall

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 11:49:00 AM

 Lab ID:
 2110012-017
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/8/2021 10:34:55 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/8/2021 10:34:55 AM
Surr: DNOP	124	70-130	%Rec	1	10/8/2021 10:34:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/7/2021 3:54:55 PM
Surr: BFB	91.3	70-130	%Rec	1	10/7/2021 3:54:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	10/7/2021 3:54:55 PM
Toluene	ND	0.050	mg/Kg	1	10/7/2021 3:54:55 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/7/2021 3:54:55 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/7/2021 3:54:55 PM
Surr: 4-Bromofluorobenzene	81.1	70-130	%Rec	1	10/7/2021 3:54:55 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	28000	1500	mg/Kg	500	10/7/2021 8:07:30 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc

Client Sample ID: CONF18-Wall

 Project:
 NBL Unit 4 15 SWD 03 09 21 Spill Unit
 Collection Date: 9/29/2021 12:04:00 PM

 Lab ID:
 2110012-018
 Matrix: SOIL
 Received Date: 10/1/2021 7:38:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/8/2021 10:45:33 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/8/2021 10:45:33 AM
Surr: DNOP	98.4	70-130	%Rec	1	10/8/2021 10:45:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/7/2021 4:18:22 PM
Surr: BFB	93.6	70-130	%Rec	1	10/7/2021 4:18:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	10/7/2021 4:18:22 PM
Toluene	ND	0.050	mg/Kg	1	10/7/2021 4:18:22 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/7/2021 4:18:22 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/7/2021 4:18:22 PM
Surr: 4-Bromofluorobenzene	83.9	70-130	%Rec	1	10/7/2021 4:18:22 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	35000	1500	mg/Kg	500	10/7/2021 8:19:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2110012**

13-Oct-21

Client: Wescom Inc

Project: NBL Unit 4 15 SWD 03 09 21 Spill Unit KFOC

Sample ID: MB-63068 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 63068 RunNo: 81844

Prep Date: 10/6/2021 Analysis Date: 10/6/2021 SeqNo: 2895385 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-63068 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 63068 RunNo: 81844

Prep Date: 10/6/2021 Analysis Date: 10/6/2021 SeqNo: 2895386 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.4 90 110

Sample ID: MB-63075 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 63075 RunNo: 81844

Prep Date: 10/6/2021 Analysis Date: 10/6/2021 SeqNo: 2895415 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-63075 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 63075 RunNo: 81844

Prep Date: 10/6/2021 Analysis Date: 10/6/2021 SeqNo: 2895416 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.2 90 110

Qualifiers:

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Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit
S Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110012**

13-Oct-21

Client: Wescom Inc

Project: NBL Unit 4 15 SWD 03 09 21 Spill Unit KFOC

Sample ID: 2110012-011AMS	SampTy	/pe: MS	3	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: CONF11-5'	Batch	ID: 63	052	F	RunNo: 8	1901				
Prep Date: 10/5/2021	Analysis Da	ate: 10	0/8/2021	5	SeqNo: 28	898192	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.5	47.48	0	89.7	39.3	155			
Surr: DNOP	4.9		4.748		104	70	130			
Sample ID: 2110012-011AMSI	D SampTy	/pe: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: CONF11-5'	Batch	ID: 63	052	F	RunNo: 8	1901				
Prep Date: 10/5/2021	Analysis Da	ate: 10	0/8/2021	S	SeqNo: 2	898193	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.6	47.80	0	120	39.3	155	29.4	23.4	R
Surr: DNOP	6.7		4.780		140	70	130	0	0	S
Sample ID: LCS-63052	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 63	052	F	RunNo: 8	1901				
Prep Date: 10/5/2021	Analysis Da	ate: 10	0/8/2021	S	SeqNo: 2	898210	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	68.9	135			
Surr: DNOP	6.4		5.000		127	70	130			
Sample ID: MB-63052	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batch	ID: 63	052	F	RunNo: 8	1901				
Prep Date: 10/5/2021	Analysis Da	ate: 10	0/8/2021	S	SeqNo: 28	898211	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		129	70	130			
Sample ID: MB-63051	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batch	ID: 63	051	F	RunNo: 8	1900				
Prep Date: 10/5/2021	Analysis Da	ate: 10	0/8/2021	S	SeqNo: 28	898289	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND

ND

10

10

50

10.00

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

104

70

130

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2110012**

13-Oct-21

Client: Wescom Inc

Project: NBL Unit 4 15 SWD 03 09 21 Spill Unit KFOC

Sample ID: LCS-63051 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 63051 RunNo: 81900

Prep Date: 10/5/2021 Analysis Date: 10/8/2021 SeqNo: 2898290 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 58
 10
 50.00
 0
 116
 68.9
 135

 Surr: DNOP
 5.9
 5.000
 118
 70
 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2110012**

13-Oct-21

Client: Wescom Inc

Project: NBL Unit 4 15 SWD 03 09 21 Spill Unit KFOC

Sample ID: mb-63023 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 63023 RunNo: 81827

Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2895596 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 101 70 130

Sample ID: Ics-63023 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 63023 RunNo: 81827

Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2895598 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 104 78.6 131

Surr: BFB 1100 1000 107 70 130

Sample ID: 2110012-011ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **CONF11-5'** Batch ID: **63028** RunNo: **81897**

Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2898004 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 4.8 24.20 0 99.4 61.3 114 Surr: BFB 980 968.1 101 70 130

Sample ID: 2110012-011amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: CONF11-5' Batch ID: 63028 RunNo: 81897

Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2898005 Units: mg/Kg

%RPD Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 24 4.8 24.18 99.5 61.3 0.0163 0 114 20 Surr: BFB 970 967.1 101 70 130 0

Sample ID: Ics-63028 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 63028 RunNo: 81897

Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2898046 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result POL LowLimit HighLimit Qual Analyte Gasoline Range Organics (GRO) 26 5.0 25.00 0 106 78.6 131 Surr: BFB 1000 1000 103 70 130

Sample ID: mb-63028 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 63028 RunNo: 81897

Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2898048 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit
S Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2110012**

13-Oct-21

Client: Wescom Inc

Project: NBL Unit 4 15 SWD 03 09 21 Spill Unit KFOC

Sample ID: mb-63028 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 63028 RunNo: 81897

Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2898048 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 930 1000 92.9 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2110012**

13-Oct-21

Client: Wescom Inc

Project: NBL Unit 4 15 SWD 03 09 21 Spill Unit KFOC

Sample ID: mb-63023 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 63023 RunNo: 81827 Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2895635 Units: mq/Kq SPK value SPK Ref Val **RPDLimit** PQL %REC LowLimit HighLimit %RPD Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

 Surr: 4-Bromofluorobenzene
 0.93
 1.000
 92.9
 70
 130

 Sample ID: Ics-63023
 SampType: LCS
 TestCode: EPA Method 8021B: Volatiles

RunNo: 81827 Client ID: LCSS Batch ID: 63023 Units: mg/Kg Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2895637 LowLimit Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Benzene 0.96 0.025 1.000 0 95.8 80 120 Toluene 0.94 0.050 1.000 0 93.8 80 120 Ethylbenzene 0.93 0.050 1.000 0 92.7 80 120 3.000 0 95.8 80 Xylenes, Total 2.9 0.10 120 Surr: 4-Bromofluorobenzene 0.91 1.000 90.8 70 130

Sample ID: 2110012-012ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: CONF12-5' Batch ID: 63028 RunNo: 81897 Prep Date: 10/4/2021 Analysis Date: 10/7/2021 SeqNo: 2898078 Units: mg/Kg %RPD Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual 0.9681 86.5 80 Benzene 0.84 0.024 0 120 Toluene 0.86 0.048 0.9681 0 89.1 80 120 Ethylbenzene 0.87 0.048 0.9681 0 90.1 80 120 Xylenes, Total 2.6 0.097 2.904 0 87.9 80 120 Surr: 4-Bromofluorobenzene 0.84 0.9681 86.7 70 130

Sample ID: 2110012-012amsd	I SampT	SampType: MSD TestCode: EPA Method						iles		
Client ID: CONF12-5'	Batcl	n ID: 63 0	D: 63028 RunNo: 81897							
Prep Date: 10/4/2021	Analysis D	oate: 10)/7/2021	S	SeqNo: 2	898079	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9699	0	82.5	80	120	4.47	20	
Toluene	0.82	0.048	0.9699	0	84.2	80	120	5.52	20	
Ethylbenzene	0.82	0.048	0.9699	0	84.4	80	120	6.32	20	
Xylenes, Total	2.4	0.097	2.910	0	83.6	80	120	4.81	20	
Surr: 4-Bromofluorobenzene	0.85		0.9699		87.8	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2110012**

13-Oct-21

Client: Wescom Inc

Project: NBL Unit 4 15 SWD 03 09 21 Spill Unit KFOC

Sample ID: LCS-63028	SampT	Гуре: LC	S	Tes	PA Method	8021B: Volatiles					
Client ID: LCSS	Batcl	h ID: 63 0	028	F	RunNo: 8	1897					
Prep Date: 10/4/2021	Analysis D	Date: 10	/7/2021	8	SeqNo: 2	898119	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.92	0.025	1.000	0	91.9	80	120				
Toluene	0.95	0.050	1.000	0	94.6	80	120				
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120				
Xylenes, Total	2.8	0.10	3.000	0	92.2	80	120				
Surr: 4-Bromofluorobenzene	0.85		1.000		85.0	70	130				

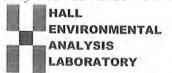
Sample ID: mb-63028	Samp1	уре: М Е	BLK	TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batcl	h ID: 63	028	F	RunNo: 8	1897							
Prep Date: 10/4/2021	Analysis [Date: 10	0/7/2021	8	SeqNo: 2	898121	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	0.83		1.000		82.9	70	130						

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 305-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Wescom Inc	Work Order Num	nber: 211	0012			RcptNo: 1
Received By: Tracy Casarrubias	10/1/2021 7:38:00	AM				
Completed By: Sean Livingston	10/1/2021 9:54:47	AM		<	1	yok_
Reviewed By: JR 10/1/21				SI	-0	1800
Chain of Custody						
1. Is Chain of Custody complete?		Yes		No		Not Present
2. How was the sample delivered?		Cou	<u>rier</u>			
<u>Log In</u>						
3. Was an attempt made to cool the sam	ples?	Yes	V	No		NA 🗌
4. Were all samples received at a temper	ature of >0° C to 6.0°C	Yes	V	No		na 🗆
5. Sample(s) in proper container(s)?		Yes	V	No		
6. Sufficient sample volume for indicated	test(s)?	Yes	V	No		
7. Are samples (except VOA and ONG) pr	roperly preserved?	Yes	~	No		
8. Was preservative added to bottles?		Yes		No	V	NA 🗆
9. Received at least 1 vial with headspace	<1/4" for AQ VOA?	Yes		No		NA 🔽
10. Were any sample containers received	broken?	Yes		No	V	Turk and the second
						# of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custod)	w)	Yes	V	No	Ц	for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Cha		Yes	V	No		Adjusted?
13. Is it clear what analyses were requested		Yes	V	No		
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	V	No		Checked by: THE 16/1/21
Special Handling (if applicable)	,				1	
15. Was client notified of all discrepancies	with this order?	Yes		No		NA 🗹
Person Notified:	Date	:			_	
By Whom:	Via:	☐ eM	ail 🖂	Phone [Fax	☐ In Person
Regarding:					362	
Client Instructions:						
16. Additional remarks:						
17. Cooler Information Cooler No Temp °C Condition 1 5.8 Good	Seal Intact Seal No	Seal D	ate	Signed	Ву	

220 pa o ció por 220	Standard Rush Project Name: 4488	Day 5 91.21	4	1901 H Tel. 50	Al w awkin 15-345	HALL ANAL www.hall 4901 Hawkins NE - Tel. 505-345-3975	LYSIS LYSIS allenviron - Albuqu Fax Analysis	IVIII IS II Sumer suerque x 505 x 505 is Rec	HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	TAI OB 11/5/2021
email or Fax#: באולפל באיסיפירט (בי פאלופל באיסיפירט באלופל באיל מאלובל באלופל	Project Manager: Ashley Giovenso ashley. Siovenso Swescominc.	ey Giovenso				SWIS	PO4, SO4		(tnəsdA\t	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

October 21, 2021

Ashley Giovengo Wescom Inc 1907 San Jose Blvd. Apt. 425 Carlsbad, NM 88220

TEL: (575) 499-6831

FAX

RE: KFOC NBL Unit 4-15 SWD 03.09.21 Spill OrderNo.: 2110842

Dear Ashley Giovengo:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/19/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF15A-Wall

 Project:
 KFOC NBL Unit 4-15 SWD 03.09.21 Sp
 Collection Date: 10/15/2021 10:25:00 AM

 Lab ID:
 2110842-001
 Matrix: MEOH (SOIL)
 Received Date: 10/19/2021 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	27	9.8	mg/Kg	1	10/19/2021 1:31:54 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2021 1:31:54 PM
Surr: DNOP	94.2	70-130	%Rec	1	10/19/2021 1:31:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	10/19/2021 11:43:09 AM
Surr: BFB	107	70-130	%Rec	1	10/19/2021 11:43:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	10/19/2021 11:43:09 AM
Toluene	ND	0.040	mg/Kg	1	10/19/2021 11:43:09 AM
Ethylbenzene	ND	0.040	mg/Kg	1	10/19/2021 11:43:09 AM
Xylenes, Total	ND	0.079	mg/Kg	1	10/19/2021 11:43:09 AM
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	10/19/2021 11:43:09 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	2600	150	mg/Kg	50	10/20/2021 7:12:44 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

Analytical ReportLab Order **2110842**

Date Reported: 10/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF17A-Wall

 Project:
 KFOC NBL Unit 4-15 SWD 03.09.21 Sp
 Collection Date: 10/15/2021 9:22:00 AM

 Lab ID:
 2110842-002
 Matrix: MEOH (SOIL)
 Received Date: 10/19/2021 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	10/19/2021 1:45:24 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/19/2021 1:45:24 PM
Surr: DNOP	93.2	70-130	%Rec	1	10/19/2021 1:45:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	10/19/2021 12:06:38 PM
Surr: BFB	107	70-130	%Rec	1	10/19/2021 12:06:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	10/19/2021 12:06:38 PM
Toluene	ND	0.037	mg/Kg	1	10/19/2021 12:06:38 PM
Ethylbenzene	ND	0.037	mg/Kg	1	10/19/2021 12:06:38 PM
Xylenes, Total	ND	0.075	mg/Kg	1	10/19/2021 12:06:38 PM
Surr: 4-Bromofluorobenzene	88.0	70-130	%Rec	1	10/19/2021 12:06:38 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1100	60	mg/Kg	20	10/20/2021 2:32:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

Analytical Report Lab Order 2110842

Date Reported: 10/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Wescom Inc Client Sample ID: CONF18A-Wall

 Project:
 KFOC NBL Unit 4-15 SWD 03.09.21 Sp
 Collection Date: 10/15/2021 11:20:00 AM

 Lab ID:
 2110842-003
 Matrix: MEOH (SOIL)
 Received Date: 10/19/2021 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/19/2021 1:59:01 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2021 1:59:01 PM
Surr: DNOP	95.1	70-130	%Rec	1	10/19/2021 1:59:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	10/19/2021 12:30:05 PM
Surr: BFB	112	70-130	%Rec	1	10/19/2021 12:30:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/19/2021 12:30:05 PM
Toluene	ND	0.035	mg/Kg	1	10/19/2021 12:30:05 PM
Ethylbenzene	ND	0.035	mg/Kg	1	10/19/2021 12:30:05 PM
Xylenes, Total	ND	0.069	mg/Kg	1	10/19/2021 12:30:05 PM
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	10/19/2021 12:30:05 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	5500	300	mg/Kg	100	10/20/2021 7:25:09 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110842 21-Oct-21**

Client: Wescom Inc

Project: KFOC NBL Unit 4-15 SWD 03.09.21 Spill

Sample ID: MB-63407 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 63407 RunNo: 82176

Prep Date: 10/19/2021 Analysis Date: 10/19/2021 SeqNo: 2911642 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-63407 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 63407 RunNo: 82176

Prep Date: 10/19/2021 Analysis Date: 10/19/2021 SeqNo: 2911643 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.5 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110842**

21-Oct-21

Client: Wescom Inc

Project: KFOC NBL Unit 4-15 SWD 03.09.21 Spill

Sample ID: 2110842-001AMSE	S ampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: CONF15A-Wall	Batch	1D: 63	397	F	RunNo: 82	2154				
Prep Date: 10/19/2021	Analysis D	ate: 10	/19/2021	8	SeqNo: 29	911250	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	9.9	49.31	27.17	76.1	39.3	155	8.54	23.4	
Surr: DNOP	4.6		4.931		93.9	70	130	0	0	

Sample ID: 2110842-001AMS	SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Orga					e Organics				
Client ID: CONF15A-Wall	Batch	ID: 63	397	R	tunNo: 8	2154				
Prep Date: 10/19/2021	Analysis D	ate: 10	/19/2021	S	SeqNo: 29	911251	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	70	9.6	47.76	27.17	90.6	39.3	155			
Surr: DNOP	4.6		4.776		97.1	70	130			

Sample ID: MB-63397	SampT	ype: MB	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 63 3	397	F	RunNo: 8	2154				
Prep Date: 10/19/2021	Analysis D	ate: 10	/19/2021	S	SeqNo: 29	911255	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.4	70	130			

Sample ID: LCS-63397	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Rar				esel Range	e Organics				
Client ID: LCSS	Batch	n ID: 63 :	397	R	RunNo: 8	2154				
Prep Date: 10/19/2021	Analysis D	ate: 10)/19/2021	S	SeqNo: 2	911256	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.3	68.9	135			
Surr: DNOP	4.8		5 000		95.1	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

2110842 21-Oct-21

WO#:

Client: Wescom Inc

Project: KFOC NBL Unit 4-15 SWD 03.09.21 Spill

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **B82157** RunNo: **82157**

Prep Date: Analysis Date: 10/19/2021 SeqNo: 2911490 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 108 70 130

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: B82157 RunNo: 82157

Prep Date: Analysis Date: 10/19/2021 SeqNo: 2911491 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 119 78.6 131

Surr: BFB 1300 1000 127 70 130

Sample ID: 2110842-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: CONF15A-Wall Batch ID: B82157 RunNo: 82157

Prep Date: Analysis Date: 10/19/2021 SeqNo: 2911495 Units: mg/Kg

%REC Result PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 23 4.0 19.87 0 114 61.3 114 S

 Surr: BFB
 970
 794.9
 122
 70
 130

Sample ID: 2110842-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: CONF15A-Wall Batch ID: B82157 RunNo: 82157

Prep Date: Analysis Date: 10/19/2021 SeqNo: 2911496 Units: mq/Kq

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 23 4.0 19.87 117 61.3 2.94 S 114 20 Surr: BFB 1000 794.9 126 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110842

21-Oct-21

Client: Wescom Inc

Project: KFOC NBL Unit 4-15 SWD 03.09.21 Spill

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: **D82157** RunNo: 82157

Prep Date: Analysis Date: 10/19/2021 SeqNo: 2911541 Units: mq/Kq

PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual

Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.90 1.000 89.7 70 130

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: **D82157** RunNo: 82157

Prep Date:	Analysis [Analysis Date: 10/19/2021			SeqNo: 2911542			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	1.000	0	100	80	120				
Toluene	1.0	0.050	1.000	0	102	80	120				
Ethylbenzene	1.0	0.050	1.000	0	102	80	120				
Xylenes, Total	3.0	0.10	3.000	0	100	80	120				
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	70	130				

Sample ID: 2110842-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: CONF17A-Wall Batch ID: **D82157** RunNo: 82157 Prep Date: Analysis Date: 10/19/2021 SeqNo: 2911546 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 96.7 80 0.72 0.019 0.7463 120 Benzene O Toluene 0.74 0.037 0.7463 0 99.6 80 120 120 0 99.4 80 Ethylbenzene 0.74 0.037 0.7463 Xylenes, Total 2.2 0.075 2.239 0 97.6 80 120 Surr: 4-Bromofluorobenzene 92.0 70 0.69 0.7463 130

SampType: MSD CONF17A-Wall Client ID: Batch ID: **D82157** RunNo: 82157 Prep Date: Analysis Date: 10/19/2021 SeqNo: 2911547 Units: mg/Kg Analyte Qual

Analyte	Result	PQL	SPK value	SPK Ref vai	%REC	LOWLIMIT	HighLimit	%RPD	RPDLIMIT	
Benzene	0.76	0.019	0.7463	0	102	80	120	5.02	20	
Toluene	0.78	0.037	0.7463	0	105	80	120	5.00	20	
Ethylbenzene	0.78	0.037	0.7463	0	104	80	120	4.55	20	
Xylenes, Total	2.3	0.075	2.239	0	102	80	120	4.85	20	
Surr: 4-Bromofluorobenzene	0.73		0.7463		98.0	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

Sample ID: 2110842-002amsd

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

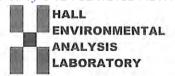
TestCode: EPA Method 8021B: Volatiles

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Wescom Inc	ber: 211	0842		RcptNo: 1		
Received By:	Cheyenne Cason	10/19/2021 7:00:0	0 AM		Chul		
Completed By:	Cheyenne Cason	2 AM		Chal			
Reviewed By:	DAD 10/19/2	1					
Chain of Cus	<u>stody</u>						
1. Is Chain of C	sustody complete?		Yes	V	No 🗌	Not Present	
2. How was the	sample delivered?		Cou	rier			
Log In							
	npt made to cool the sampl	es?	Yes	V	No 🗌	NA 🗆	
4. Were all sam	ples received at a temperat	ure of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	V	No 🗆		
6. Sufficient sam	nple volume for indicated te	st(s)?	Yes	~	No 🗌		
7. Are samples ((except VOA and ONG) pro	perly preserved?	Yes	V	No 🗆		
8. Was preserva	ative added to bottles?		Yes		No 🗹	NA 🗆	
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes		No 🗌	NA 🗸	/
10. Were any sar	mple containers received be	roken?	Yes		No 🗹	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes	V	No 🗆	bottles checked for pH: (<2 or >12	unless noted)
12, Are matrices	correctly identified on Chair	of Custody?	Yes	~	No 🗆	Adjusted?	
13. Is it clear wha	at analyses were requested	?	Yes	V	No 🗌		
	ing times able to be met? customer for authorization.)		Yes	V	No 🗌	Checked by: CM	- 1011914
Special Handi	ling (if applicable)						
15, Was client no	otified of all discrepancies v	vith this order?	Yes		No 🗌	NA 🗹	
Person	Notified:	Date		_			
By Who	om:	Via:	☐ eM	ail 🔲	Phone Fax	☐ In Person	
Regard	fing:						
Client I	nstructions:						
16. Additional re	emarks:						
17. Cooler Information Cooler No.		Seal Intact Seal No	Seal D	ate	Signed By		

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	:28:05 AM			e 152 oj
IALL ENVIRONMER NALYSIS LABORA' www.hallenvironmental.com ns NE - Albuquerque, NM 87109 5-3975 Fax 505-345-4107 Analysis Request	Total Coliform (Present/Absent)		shar. harvester	
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HALL ENVI ANALYSIS www.hallenvironme kins NE - Albuquer 845-3975 Fax 50	(AOV) 08S8		1 2 4 6 C	
LYSIS LYSIS allenviron - Albuqu 6 Fax Analysis	ĈI)E, Br, NO3, NO2, PO4, SO4	XX	× 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	5
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HAN www kins 845-3	PAHs by 8310 or 82705IMS		m in c	Z
HALL ANAL Www.ha 4901 Hawkins NE Tel. 505-345-3975	EDB (Method 504.1)		Remarks: Please	WESCOMING
Tel. (8081 Pesticides/8082 PCB's		es s:	0
	(1808) 8'BMT \ BMT \ STR (18021) (09M \ 09G \ 09G) (0921)	* *	Remarks:	3
	(c)	XX	×	_
D Standard Rush Project Name: IX FOC N BL Unit 4-15 5W 0 0 3.04.21 5pill Project #:	Project Manager: 145h 127 6 ivvengo Sampler: Colc Burton On Ice: XYes D No # of Coolers: j Cooler Temptinetuding cF): S. 8-0= S. 8 Container Preservative HEAL No. Type and # Type	ir 1 Ct 001	Via:	by: Via: Date Time
D Stands Project No. 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2		1 Jar	l Jar	Received by:
## 505-382-121)	email or Fax#: a155 leg raji oceny o @ by e5 Lebmi nc. QA/QC Package: Standard	5 CONFISA-Wall	S CONF18A-wall Relinquished by:	Wilder by.
Client: Wess Mailing Address: Carlsbad Phone #: 50	email or Fax#: @ QA/QC Package: Standard Accreditation: Date Time	9:22	Time:	1900
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What is the shallowest depth to groundwater beneath the area affected by the release?

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(ft bgs)

Incident ID	NAPP210704353	
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.

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, sinkholc, 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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 	ls.
Photographs including date and GIS information	
☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody	

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

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Oil Conservation Division

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Incident ID	NAPP210704353
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: Charles Lock Title: FHS Manager

Signature: Date: 11-5-2)

email: Charles 1 @ KFOC. net Telephone: 918-491-4337 OCD Only Received by: ___

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Page 6 Oil Conservation Division

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Incident ID NAPP210704353

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 o	ffice must be notified 2 days prior to final sampling)			
Description of remediation activities				
Thereby 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: Charles W Lock Title: Title: THE Menages Date: 11-5-2 Telephone: Plant 1991-4337				
OCD Only				
Received by: Chad Hensley D	ate: 12/08/2021			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by:	Date: 12/08/2021			
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced			

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 60429

CONDITIONS

Operator:	OGRID:
KAISER-FRANCIS OIL CO	12361
P.O. Box 21468	Action Number:
Tulsa, OK 74121	60429
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/8/2021