



2RP-4806

SUBJECT: CLOSURE PLAN FOR THE INCIDENT AT THE Williams Fee 2524 LBC 1H, EDDY COUNTY, NEW MEXICO

On behalf of Kaiser Francis, HRL Compliance Solutions, Inc (HRL) has prepared this closure plan that describes the closure for a release associated with the Williams Fee 2524 LBC 1H. The site is in Unit K, SECTION 5, TOWNSHIP 21S, RANGE 33E, NMPM, Eddy County, New Mexico, on State land.

### Site Assessment

The initial work plan dated June 25, 2018 identified water wells and depth to water. The approved work plan is in Attachment A.

There are no features of concern identified within proximity of the site. There is no flowing watercourse or significant watercourse within 300 feet of this location. There is no lakebed, sinkhole, or playa lake within 200 feet for this location. This location is not within 300 feet of an occupied permanent residence, school, hospital, institution, or church. This location is not within 500 feet of a spring or domestic freshwater well. This facility is not within incorporated municipal boundaries or within a defined municipal freshwater well field. This is illustrated in Attachment B.

An assessment of wetlands and springs was performed using USGS National Water Information System and re-verified utilizing a 7.5-minute topographical map. There are no wetlands within 300 feet of this location. There are no springs within 1000 feet of this location. This map is in Attachment B.

This facility is not within a 100-year floodplain as per FEMA. It is in a Flood Zone D. A portion of the FEMA map is in Attachment B.

This location is not located in an area identified in an unstable karst geology area. An area map generated with data from the USGS showing geologic units and structural features is in Attachment B.

### Closure Criteria Assessment

Closure Criteria		
Depth to Ground Water	Constituent	Limit
<50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

### Remediation Plan

The release occurred on a buried SWD transfer line that traversed across a portion of the farm resulting in the discharge of produced water impacting a field on the west side of Giovengo Road (Section 26) and



then following the bored casing under the county road and thus impacting two fields on the east side of the road (Section 25). Background samples were collected from each field. The soil and groundwater are naturally high in chlorides. The remediation occurred to background in each field.

Excavation occurred over multiple days. The first round of closure sampling occurred on November 8, 2018 and those results are presented in Table 1.

**Table 1. Initial Closure Results**

Sample ID	Date	Chloride mg/Kg	Sample ID	Date	Chloride mg/Kg
West-S1	11/8/2018	2400	SE-W1	11/8/2018	8000
West-S2	11/8/2018	8660	SE-S1	11/8/2018	3600
West-W1	11/8/2018	5760	SE-S2	11/8/2018	1800
West-W2	11/8/2018	1410	SE-S3	11/8/2018	1680
West-W3	11/8/2018	672			
West-W4	11/8/2018	2480	NE-E1	11/8/2018	2080
West-W5	11/8/2018	6560	NE-E2	11/8/2018	1680
West-W6	11/8/2018	8130	NE-E3	11/8/2018	1250
West-W7	11/8/2018	192	NE-N1	11/8/2018	992
West-W8	11/8/2018	2840			
West-W9	11/8/2018	432			
West-W10	11/8/2018	976			
West-W11	11/8/2018	64			
West-W12	11/8/2018	1800			
West-W13	11/8/2018	2200			
West-W14	11/8/2018	240			
West-W15	11/8/2018	32			
West-W16	11/8/2018	64			
West-W17	11/8/2018	112			

Additional excavation occurred around West S-2, West W-5, West W-6, and West W-8 on November 26, 2018. These results are provided in Table 2. A detailed map of the excavation area and sample points is provided in Attachment C.



**Table 2. Second Closure Results**

Sample ID	Date	Chloride mg/Kg
W5-2	11/26/2018	480
W6-2	11/26/2018	1600
W8-2	11/26/2018	2040
West-S2-2	11/26/2018	1540

The spill area in the northeast field was below background. Additional background samples were collected in the southeast field on November 26, 2018. This result was 5360 mg/kg as a background in the south east field. All samples in the northeast field and the southeast field are below background.

There are two sample points that are above background that will be left in place: West -W1 and SE-West1. The West-W1 location is against the drainage ditch and the terrace to the next field. The landowner did not want Kaiser Frances to disturb this terrace. SE-West1 is about a foot away from a surface pipe. For safety, this area will be left in place. The landowner is aware of this and has agreed to leave these areas in place as outlined in the signed Landowner Authorization Form.

#### **Restoration, Reclamation, and Re-Vegetation**

Per an agreement with the OCD, the landowner will be responsible for the back fill and any subsequent revegetation of the area.

If there are any questions regarding this report, please contact Jennifer Knowlton at 505-238-3588.

Submitted by:  
HRL Compliance Solutions, Inc

Kris Rowe  
Spills/Waste Management Program Manager



**Attachments:**

Attachment A: Approved Work Plan

Attachment B: Site Location Map

Wetlands Map

Floodplain Map

Attachment C: Sample Location Map

Attachment D: Laboratory Analytical Reports



**Attachment A:**  
**Approved Work Plan**

## Jennifer Knowlton

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**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Friday, July 06, 2018 4:01 PM  
**To:** Jennifer Knowlton  
**Cc:** Lupe Carrasco; Billy Wilkinson; Pruett, Maria, EMNRD  
**Subject:** RE: Kaiser Francis Williams Fee 2524 LBC 1H \*\* 2RP-4806 88 DOR 6/9/2018

RE: Kaiser-Francis Oil Co. \* Williams Fee 2524 LBC 1H \* **2RP-4806** \* DOR: 6/9/18

Jennifer,

Your proposal for remediation of the above referenced release is approved. The impacted area identified as south of sample point E1 will need to be addressed along with the rest of the areas identified. If you want to meet to discuss the project, it will likely need to be after the week of July 9-13. Since the release has impacted an agricultural field, I would think the remedial effort should begin as soon as possible, but let me know if a meeting is necessary and I will attempt to accommodate as best as I can.

Thank you,

Mike Bratcher  
NMOCD District 2  
811 South First Street  
Artesia, NM 88210  
575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

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**From:** Jennifer Knowlton <jknowlton@hrlcomp.com>  
**Sent:** Thursday, June 28, 2018 10:51 AM  
**To:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Cc:** Lupe Carrasco <lcarrasco@hrlcomp.com>; Billy Wilkinson <billyw@kfoc.net>  
**Subject:** Kaiser Francis Williams Fee 2524 LBC 1H \*\* 2RP-4806 88 DOR 6/9/2018

Mike,

On behalf of Kaiser Francis Oil Company, I have attached the work plan for the Williams Fee 2524 LDC 1H.



After you have reviewed this, we would like to set up a meeting with a KOFC representative and Lupe Carrasco with HRL. The land owner has raised some concerns and has some requirements that we need to address while still meeting the OCD requirements.

If you have any questions, please feel free to give me a call.

**Jennifer Knowlton, PE** | Regional Manager-Permian  
HRL Compliance Solutions, Inc.

112 S. 6th Street, Unit Bldg A | Artesia, NM 88210

main 575.616.7398 Ex. 414 | mobile 505-238-3588

[Web](#) | [vCard](#) | [Map](#) |  | 



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P.O. Box 1708 • Artesia, NM 88211  
[www.hrlcomp.com](http://www.hrlcomp.com)

June 28, 2018

NMOCD District II  
Mike Bratcher  
811 S 1<sup>st</sup> Street  
Artesia, NM 88210

SUBJECT: SOIL REMEDIATION WORK PLAN FOR THE INCIDENT AT THE Williams Fee 2524 LBC 1H, Eddy County, NEW MEXICO

Mr. Bratcher:

On behalf of Kaiser Francis Oil Company, HRL Compliance Solutions, Inc (HRL) has prepared this work plan that describes the assessment, initial characterization, and proposed remediation for a release associated with the Williams Fee 2524 LBC 1H. The site is in Unit F, SECTION 25, TOWNSHIP 23S, RANGE 28E, NMPM, Eddy County, New Mexico, on private land. Figure 1 illustrates the location and surrounding area.

Table 1 below, summarizes information regarding the release.

**Table 1: Release Information and Site Ranking**

Name	Williams Fee 2524 LBC 1H
Company	Kaiser Francis Oil Co.
RP Number	2RP-4806
API Number	30-015-43743
Location	32.2718, -104.0494
Estimated Date of Release	6/9/18
Date Reported to NMOCD	6/9/18
Land Owner	Loyd Tiller
Reported to	OCD
Source of Release	SWD Line
Released Material	Produced Water
Released Volume	150 bbls produced water
Recovered Volume	40 bbls produced water
Net Release Volume	110 bbl water
Nearest Waterway	1.7 miles to Pecos River
Depth to Groundwater	>50 feet bgs
Nearest Domestic Water Source	< 1 mile
NMOCD Ranking	20
Response Date	6/13/2018



## 1.0 Background

The release occurred on a buried SWD transfer line that traversed across a portion of the farm resulting in the discharge of produced water impacting a field on the west side of Giovengo Road (Section 26) and then following the bored casing under the county road and thus impacting two fields on the east side of the road (Section 25). The initial NMOCD C-141 report is attached (Appendix A).

## 2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 3.3 miles East of Loving, NM, with an elevation of approximately 3004 feet above sea level. A search of the New Mexico State Engineer's Office (NMOSE) online water well database for groundwater wells in the vicinity of the release identified seven (7) groundwater wells located within a one-mile radius of the site. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Table 2 presents the remediation standards and the site ranking for this location. Justification for this site ranking is found in Appendix B.

**Table 2: Remediation Standards**

Soil Remediation Standards	0 to 9	10 to 19	>19
<b>Benzene</b>	<b>10 PPM</b>	<b>10 PPM</b>	<b>10 PPM</b>
<b>BTEX</b>	<b>50 PPM</b>	<b>50 PPM</b>	<b>50 PPM</b>
<b>TPH</b>	<b>5000 PPM</b>	<b>1000 PPM</b>	<b>100 PPM</b>

Depth to Groundwater	NMOCD Numeric Rank
< 50 BGS = 20	<b>20</b>
50' to 99' = 10	
>100' = 0	
Distance to Nearest Surface Water	NMOCD Numeric Rank
< 200' = 20	
200' - 1000' = 10	
>1000' = 0	<b>0</b>
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	
> 1000' = 0	<b>0</b>
<b>Total Site Ranking</b>	<b>20</b>



### **3.0 Release Characterization**

Upon receiving clearance from the underground utility locate (811) on June 18, 2018, HRL field personnel assessed the impacted area. Samples were collected on 6/18/2018 to characterize the extent of impacts and calculate a volume of soil to be excavated for disposal. Samples were labeled as W1, W2, W3, E1, and BG (Background). The area just south of E1 was not sampled due to the inability to access the area as the adjacent fields had been recently irrigated. During sampling, soil was heavily saturated at a 6 foot depth with seepage at 8-10 feet bgs for all sampling points with the exception of sample point E1. Water samples were obtained from sample points labeled W1, W2, W3, and BG. During sampling, irrigation of the adjacent fields was in progress. Due to the high water holding capacity of the soils in question, it is believed that the majority of the water found during sampling is a result of a temporary perched water table during times of additional moisture. All samples were collected and analyzed at a Nationally Environmental Laboratory Accreditation Program (NELAP) laboratory and in accordance with NMOCD soil sampling procedures. The samples were submitted to Hall Environmental Laboratories for analyses including chlorides by Method 300.0, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015M. Sample locations are depicted in Figure 2.

### **4.0 Soil Remediation Workplan**

HRL will begin overseeing the excavation of the impacted soils, after approval from area utilities owners via 811 and NMOCD. Approximately 4' of soil will be removed from the impacted area around W1. The areas labeled as W2 and W3 will be excavated to a depth of 3'. The area around E1 will be excavated down to an approximate depth of 1'. It is anticipated that approximately 4,610 cubic yards of contaminated soil is to be excavated and disposed at an approved solid waste disposal facility. Clean top soil will be used to backfill the excavation and the impacted area will need to be laser leveled to the existing grade at which the fields were set for irrigation purposes.

### **5.0 Revegetation Plan**

The impacted area will need to be fertilized and revegetated in accordance to the land owner's recommended crop of preference.

### **6.0 Scope and Limitations**

The scope of HRL's services consist of performing site characterization and remediation, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Lupe Carrasco at 575-725-0787.



Submitted by:  
HRL Compliance Solutions, Inc

Lupe Carrasco  
Project Manager - Permian

**Attachments:**

Figure 1: Site and Sample Location Map

Table 3: Summary of Sample Results

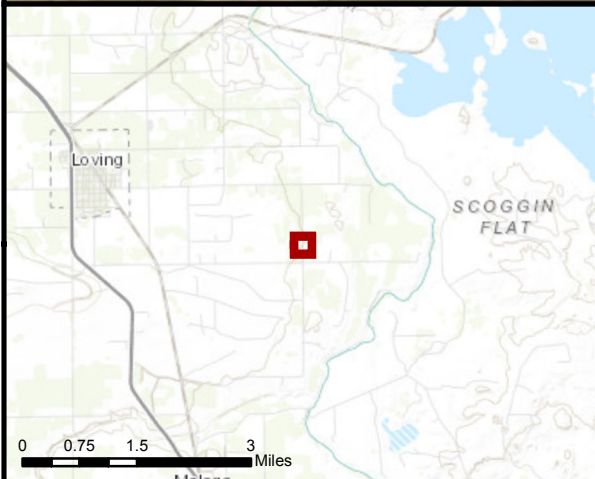
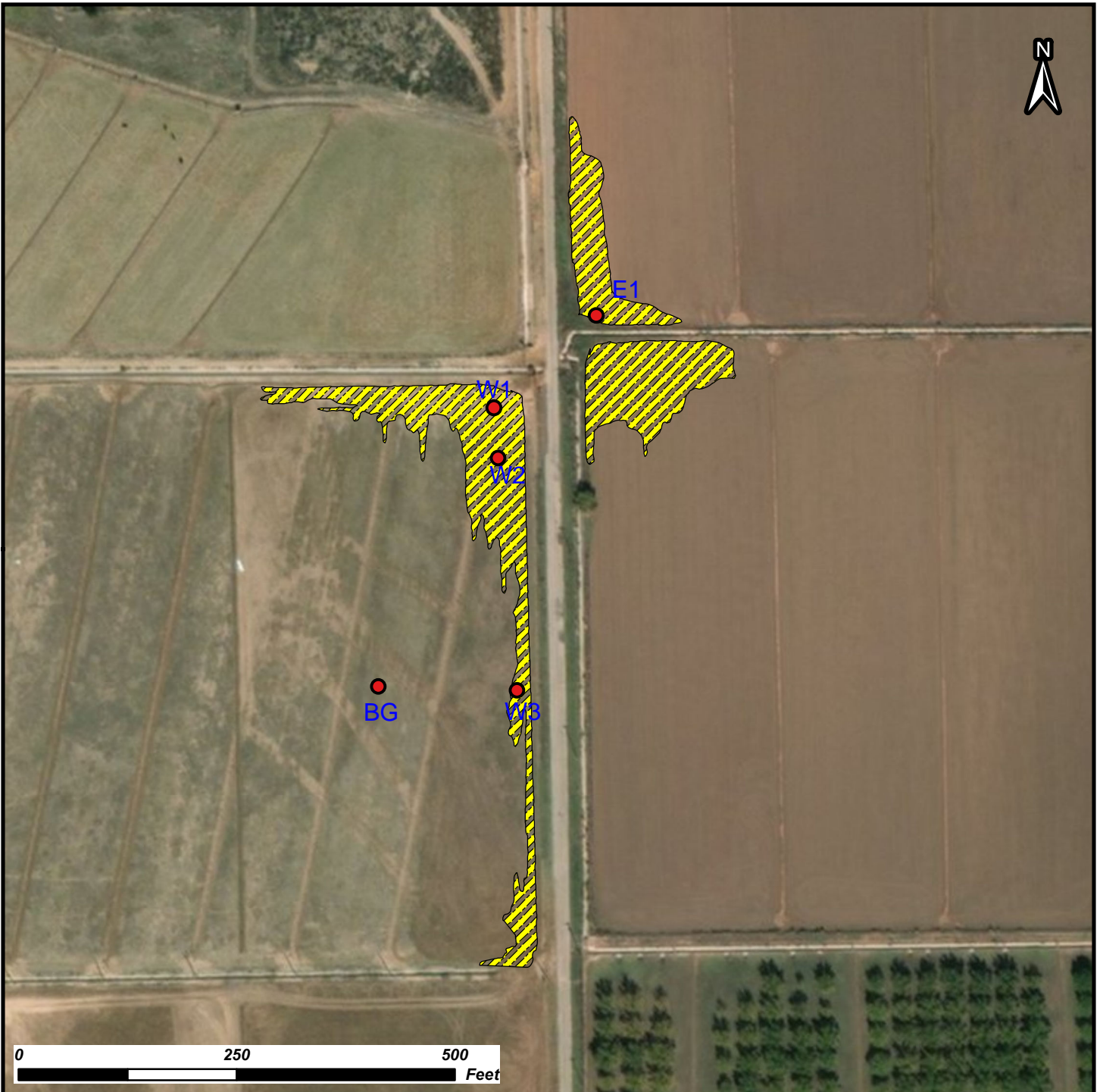
Appendix A: Form C141 Initial

Appendix B: NMOSE Well Report

Appendix C: Laboratory Analytical Reports



**Figure 1:**  
**Site and Sample Location Map**



## KAISER-FRANCIS OIL COMPANY

### Sample Location Map

Williams Fee 2524 LBC 001H

32.272593 -104.049334  
Section 25, Township 23 South, Range 29 East

### Features

● Sample Location       Impacted Area

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HRL assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantees as to the quality or accuracy of the underlying data.



**HRL**  
COMPLIANCE  
SOLUTIONS

Author: K. Fox  
Revision: 0  
Date: 6.25.2018



**Table 3: Analytical Results Summary**

Summary of Delineation Sampling Analytical Results												
Concentrations of Benzene, BTEX, TPH & Chloride in Soil												
Kaiser Francis Oil Co.												
Williams Fee 2524 LBC 1H												
Eddy County, New Mexico												
NMOCD REF: 2RP-4806												
SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	SOIL STATUS	8021B					8015M			300.0
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total TPH (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD - Guidelines for Remediation of Leaks, Spills and Releases				10	NE	NE	NE	50	NE	NE	100	600
Vertical Delineation Sampling												
W1	1'		In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	4300
W1	2'	6/18/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	2800
W1	3'	6/18/2018	In-Situ									9700
W1	4'	6/18/2018	In-Situ									2300
W1	6'	6/18/2018	In-Situ									2800
W1	8'	6/18/2018	In-Situ									440



SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	SOIL STATUS	8021B					8015M			300.0
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total TPH (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD - Guidelines for Remediation of Leaks, Spills and Releases				10	NE	NE	NE	50	NE	NE	100	600
Vertical Delineation Sampling												
W2	Surface	6/18/2018	In-Situ	ND	ND	ND	ND	ND	2.5	ND	ND	44,000
W2	1'	6/18/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	4,400
W2	2'	6/18/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	2,900
W2	3'	6/18/2018	In-Situ									1,200
W2	4'	6/18/2018	In-Situ									1,700
W2	6'	6/18/2018	In-Situ									1,100
W2	8'	6/18/2018	In-Situ									190
W3	Surface	6/18/2018	In-Situ	ND	ND	ND	ND	ND	5.4	ND	ND	41,000
W3	1'	6/18/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	14,000
W3	2'	6/18/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	6,300
W3	3'	6/18/2018	In-Situ									600
W3	4'	6/18/2018	In-Situ									1,800
W3	6'	6/18/2018	In-Situ									1,200
W3	8'	6/18/2018	In-Situ									1,000
W3	10'	6/18/2018	In-Situ									290



SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	SOIL STATUS	8021B					8015M			300.0
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total TPH (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD - Guidelines for Remediation of Leaks, Spills and Releases				10	NE	NE	NE	50	NE	NE	100	600
Vertical Delineation Sampling												
E1	Surface	6/18/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	8,700
E1	1'	6/18/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	840
E1	2'	6/18/2018	In-Situ									420
E1	3'	6/18/2018	In-Situ									570
E1	4'	6/18/2018	In-Situ									260
E1	6'	6/18/2018	In-Situ									180
E1	8'	6/18/2018	In-Situ									130
E1	10'	6/18/2018	In-Situ									400
E1	12'	6/18/2018	In-Situ									760
BG	Surface	6/18/2018	In-Situ									2,400
BG	1'	6/18/2018	In-Situ									770
BG	2'	6/18/2018	In-Situ									2,400
BG	3'	6/18/2018	In-Situ									2,900
BG	4'	6/18/2018	In-Situ									2,200
BG	6'	6/18/2018	In-Situ									2,200
BG	8'	6/18/2018	In-Situ									780
BG	10'	6/18/2018	In-Situ									930



Summary of Water Sampling Analytical Results												
Concentrations of Benzene, BTEX, TPH & Chloride in Soil												
Kaiser Francis Oil Co.												
Williams Fee 2524 LBC 1H												
Eddy County, New Mexico												
NMOCD REF: 2RP-4806												
SAMPLE LOCATION	Sample	SAMPLE DATE	Water Status	8021B					8015M			300.0
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total TPH (mg/Kg)	CHLORIDE (mg/L)
				10	NE	NE	NE	50	NE	NE	100	
W1	Water Sample	6/18/2018										8,800
W2	Water Sample	6/18/2018										2,400
W3	Water Sample	6/18/2018										2,500
BG	Water Sample	6/18/2018										6,100

— = Not Established

Concentrations in **BOLD** exceed the NMOCD Guidelines



Proposed excavated area



## Appendix A: Form C141 Initial

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

JUN 11 2018

Form C-141  
Revised April 3, 2017

Oil Conservation Division DISTRICT IV ARTESIA 9000  
1220 South St. Francis Dr. appropriate District Office in  
Santa Fe, NM 87505 accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

**NAB1816439718** OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Kaiser Francis Oil Co	Contact Charles Lock
Address 6733 S Yale Ave	Telephone No. 918-491-4337
Facility Name Williams Fee 2524 LBC 1H	Facility Type SWD line from well
Surface Owner	Mineral Owner State
API No. 30-015-43743	

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	25	23 S	28 E	2290	N	2205	W	Eddy

Latitude 32°16'22"N Longitude -104°2'58"W NAD83

**32.2718** NATURE OF RELEASE **104.0494**

Type of Release Produced water	Volume of Release 150 bbls	Volume Recovered 40 bbls
Source of Release SWD Line	Date and Hour of Occurrence 6/9/18 AM	Date and Hour of Discovery 6/9/18 11AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD Environmental Specialist	
By Whom?	Date and Hour 6/9/18	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*  N/A		
Describe Cause of Problem and Remedial Action Taken.*  SWD transfer line leak. Produced water on surface sucked up with Vacuum trucks		
Describe Area Affected and Cleanup Action Taken.*  Spill was inside of fenced off farm field on the west side. From the intersection of Rabbit Hill Road and Giovengo Road go north approximately 350 yards. Produced water on surface was vacuumed up with Vacuum trucks.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		

## OIL CONSERVATION DIVISION

Signature: <i>Charles Lock</i>	Approved by Environmental Specialist: <i>[Signature]</i>	
Printed Name: Charles Lock	Approval Date: 6/12/18	Expiration Date: N/A
Title: EH&S Manager	Conditions of Approval: See Attached	
E-mail Address: charlesl@kfoc.net	Attached: RP-4800	
Date: 6/11/18	Phone: 918-491-4337	

\* Attach Additional Sheets If Necessary



## **Appendix B: NMOSE Well Report**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">C 00136</a>		CUB	ED	3	1	2	25	23S	28E	590426	3571967*	200	42	158
<a href="#">C 00136 A</a>		CUB	ED	4	4	4	25	23S	28E	591037	3570753*	100	60	40
<a href="#">C 00136 CLW194026</a>	O		ED	3	1	2	25	23S	28E	590426	3571967*	200	52	148
<a href="#">C 00136 CLW235233</a>	O		ED	3	1	2	25	23S	28E	590426	3571967*	200	42	158
<a href="#">C 00136 S</a>		CUB	ED	1	1	2	25	23S	28E	590426	3572167*	122	45	77
<a href="#">C 00475</a>		CUB	ED	2	1	3	25	23S	28E	589822	3571347*	144	38	106
<a href="#">C 01443</a>		C	ED		2	1	25	23S	28E	590123	3572064*	50	27	23
<a href="#">C 03001 EXPLORE</a>		CUB	ED	1	1	4	25	23S	28E	590430	3571355*	140		
<a href="#">C 03535 POD1</a>		C	ED	4	3	3	25	23S	28E	589860	3570751	210	25	185

Average Depth to Water: 41 feet

Minimum Depth: 25 feet

Maximum Depth: 60 feet

Record Count: 9

**Basin/County Search:**

**Basin:** Carlsbad

**PLSS Search:**

**Section(s):** 25

**Township:** 23S

**Range:** 28E

\*UTM location was derived from PLSS - see Help

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



## **Appendix C: Laboratory Analytical Reports**



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 22, 2018

Lupe Carrasco  
HRL Compliance Solutions  
PO Box 1708  
Artesia, NM 88211  
TEL: (505) 238-3588  
FAX

RE: Williams Fee 2524 LDC 1H

OrderNo.: 1806B10

Dear Lupe Carrasco:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/19/2018 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](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order: 1806B10

Date Reported: 6/22/2018

**CLIENT:** HRL Compliance Solutions  
**Project:** Williams Fee 2524 LDC 1H

**Lab Order:** 1806B10

**Lab ID:** 1806B10-001 **Collection Date:** 6/18/2018 10:00:00 AM  
**Client Sample ID:** BG Surface **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	2400	150		mg/Kg	100	6/20/2018 12:24:56 PM	38773

**Lab ID:** 1806B10-002 **Collection Date:** 6/18/2018 10:00:00 AM  
**Client Sample ID:** BG 1' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	770	30		mg/Kg	20	6/19/2018 6:06:26 PM	38773

**Lab ID:** 1806B10-003 **Collection Date:** 6/18/2018 10:00:00 AM  
**Client Sample ID:** BG 2' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	2400	75		mg/Kg	50	6/20/2018 12:37:21 PM	38773

**Lab ID:** 1806B10-004 **Collection Date:** 6/18/2018 10:00:00 AM  
**Client Sample ID:** BG 3' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	2900	150		mg/Kg	100	6/20/2018 12:49:45 PM	38773

**Lab ID:** 1806B10-005 **Collection Date:** 6/18/2018 10:00:00 AM  
**Client Sample ID:** BG 4' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	2200	75		mg/Kg	50	6/20/2018 1:02:09 PM	38773

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 Quantitative 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 Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order: 1806B10

Date Reported: 6/22/2018

**CLIENT:** HRL Compliance Solutions  
**Project:** Williams Fee 2524 LDC 1H

**Lab Order:** 1806B10

**Lab ID:** 1806B10-006 **Collection Date:** 6/18/2018 10:00:00 AM  
**Client Sample ID:** BG 6' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	2200	75		mg/Kg	50	6/20/2018 1:14:34 PM	38773

**Lab ID:** 1806B10-007 **Collection Date:** 6/18/2018 10:00:00 AM  
**Client Sample ID:** BG 8' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	780	30		mg/Kg	20	6/19/2018 7:08:29 PM	38773

**Lab ID:** 1806B10-008 **Collection Date:** 6/18/2018 10:00:00 AM  
**Client Sample ID:** BG 10' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	930	30		mg/Kg	20	6/19/2018 7:20:54 PM	38773

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 Quantitative 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 Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B10

22-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 2524 LDC 1H

Sample ID	MB-38773		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	38773		RunNo:	52083				
Prep Date:	6/19/2018		Analysis Date:	6/19/2018		SeqNo:	1705345		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-38773		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 38773		RunNo: 52083					
Prep Date:	6/19/2018		Analysis Date: 6/19/2018		SeqNo: 1705346		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 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 Detection Limit  
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
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TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: HRL COMPLIANCE ART

Work Order Number: 1806B10

RcptNo: 1

Received By: Mandy Woods 6/19/2018 8:30:00 AM

Completed By: Ashley Gallegos 6/19/2018 9:48:42 AM

Reviewed By: *[Signature]* 06/19/18

*[Signature]*  
Labeled by: JO 6/19/18

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. 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? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: 10  
( $<2$  or  $>12$  unless noted)  
Adjusted? 6/19/18  
Checked by: JO

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
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TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 25, 2018

Lupe Carrasco  
HRL Compliance Solutions  
PO Box 1708  
Artesia, NM 88211  
TEL: (505) 238-3588  
FAX

RE: Williams Fee 1H

OrderNo.: 1806B11

Dear Lupe Carrasco:

Hall Environmental Analysis Laboratory received 21 sample(s) on 6/19/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 22, 2018.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**Date Reported: **6/25/2018****CLIENT:** HRL Compliance Solutions**Client Sample ID:** W1 1'**Project:** Williams Fee 1H**Collection Date:** 6/18/2018 8:45:00 AM**Lab ID:** 1806B11-001**Matrix:** MEOH (SOIL)**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	4300	150		mg/Kg	100	6/20/2018 1:51:47 PM	38773
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	6/20/2018 1:10:45 AM	C52084
Surr: BFB	118	70-130		%Rec	1	6/20/2018 1:10:45 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/20/2018 10:05:10 AM	38767
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/20/2018 10:05:10 AM	38767
Surr: DNOP	104	70-130		%Rec	1	6/20/2018 10:05:10 AM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.016		mg/Kg	1	6/20/2018 1:10:45 AM	A52084
Toluene	ND	0.032		mg/Kg	1	6/20/2018 1:10:45 AM	A52084
Ethylbenzene	ND	0.032		mg/Kg	1	6/20/2018 1:10:45 AM	A52084
Xylenes, Total	ND	0.064		mg/Kg	1	6/20/2018 1:10:45 AM	A52084
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	6/20/2018 1:10:45 AM	A52084
Surr: Toluene-d8	103	70-130		%Rec	1	6/20/2018 1:10:45 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**Date Reported: **6/25/2018****CLIENT:** HRL Compliance Solutions**Client Sample ID:** W1 2'**Project:** Williams Fee 1H**Collection Date:** 6/18/2018 8:45:00 AM**Lab ID:** 1806B11-002**Matrix:** MEOH (SOIL)**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2800	150		mg/Kg	100	6/20/2018 2:04:12 PM	38773
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	6/20/2018 1:33:47 AM	C52084
Surr: BFB	113	70-130		%Rec	1	6/20/2018 1:33:47 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/20/2018 10:27:24 AM	38767
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2018 10:27:24 AM	38767
Surr: DNOP	103	70-130		%Rec	1	6/20/2018 10:27:24 AM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.015		mg/Kg	1	6/20/2018 1:33:47 AM	A52084
Toluene	ND	0.030		mg/Kg	1	6/20/2018 1:33:47 AM	A52084
Ethylbenzene	ND	0.030		mg/Kg	1	6/20/2018 1:33:47 AM	A52084
Xylenes, Total	ND	0.061		mg/Kg	1	6/20/2018 1:33:47 AM	A52084
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	6/20/2018 1:33:47 AM	A52084
Surr: Toluene-d8	99.1	70-130		%Rec	1	6/20/2018 1:33:47 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W1 3'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 8:45:00 AM

**Lab ID:** 1806B11-003

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	9700	750		mg/Kg	500	6/20/2018 2:16:36 PM	38773

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W1 4'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 8:45:00 AM

**Lab ID:** 1806B11-004

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2300	75		mg/Kg	50	6/20/2018 2:29:01 PM	38773

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W1 6'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 8:45:00 AM

**Lab ID:** 1806B11-005

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2800	150		mg/Kg	100	6/20/2018 2:41:26 PM	38773

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W1 8'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 8:45:00 AM

**Lab ID:** 1806B11-006

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	440	30		mg/Kg	20	6/19/2018 9:25:00 PM	38773

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W2 Surface

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 9:30:00 AM

**Lab ID:** 1806B11-007

**Matrix:** MEOH (SOIL)

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	44000	3000		mg/Kg	2E	6/20/2018 2:53:50 PM	38773
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	2.5	2.4		mg/Kg	1	6/20/2018 1:56:49 AM	C52084
Surr: BFB	122	70-130		%Rec	1	6/20/2018 1:56:49 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/20/2018 10:49:29 AM	38767
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2018 10:49:29 AM	38767
Surr: DNOP	104	70-130		%Rec	1	6/20/2018 10:49:29 AM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.012		mg/Kg	1	6/20/2018 1:56:49 AM	A52084
Toluene	ND	0.024		mg/Kg	1	6/20/2018 1:56:49 AM	A52084
Ethylbenzene	ND	0.024		mg/Kg	1	6/20/2018 1:56:49 AM	A52084
Xylenes, Total	ND	0.048		mg/Kg	1	6/20/2018 1:56:49 AM	A52084
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	6/20/2018 1:56:49 AM	A52084
Surr: Toluene-d8	99.6	70-130		%Rec	1	6/20/2018 1:56:49 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W2 1'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 9:30:00 AM

**Lab ID:** 1806B11-008

**Matrix:** MEOH (SOIL)

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	4400	300		mg/Kg	200	6/20/2018 3:06:15 PM	38773
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	6/20/2018 2:19:52 AM	C52084
Surr: BFB	114	70-130		%Rec	1	6/20/2018 2:19:52 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/20/2018 11:11:39 AM	38767
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2018 11:11:39 AM	38767
Surr: DNOP	104	70-130		%Rec	1	6/20/2018 11:11:39 AM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.014		mg/Kg	1	6/20/2018 2:19:52 AM	A52084
Toluene	ND	0.028		mg/Kg	1	6/20/2018 2:19:52 AM	A52084
Ethylbenzene	ND	0.028		mg/Kg	1	6/20/2018 2:19:52 AM	A52084
Xylenes, Total	ND	0.056		mg/Kg	1	6/20/2018 2:19:52 AM	A52084
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	6/20/2018 2:19:52 AM	A52084
Surr: Toluene-d8	94.7	70-130		%Rec	1	6/20/2018 2:19:52 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W2 2'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 9:30:00 AM

**Lab ID:** 1806B11-009

**Matrix:** MEOH (SOIL)

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2900	150		mg/Kg	100	6/20/2018 3:18:39 PM	38773
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/20/2018 2:42:55 AM	C52084
Surr: BFB	117	70-130		%Rec	1	6/20/2018 2:42:55 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/20/2018 11:33:31 AM	38767
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2018 11:33:31 AM	38767
Surr: DNOP	102	70-130		%Rec	1	6/20/2018 11:33:31 AM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.017		mg/Kg	1	6/20/2018 2:42:55 AM	A52084
Toluene	ND	0.034		mg/Kg	1	6/20/2018 2:42:55 AM	A52084
Ethylbenzene	ND	0.034		mg/Kg	1	6/20/2018 2:42:55 AM	A52084
Xylenes, Total	ND	0.068		mg/Kg	1	6/20/2018 2:42:55 AM	A52084
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	6/20/2018 2:42:55 AM	A52084
Surr: Toluene-d8	99.3	70-130		%Rec	1	6/20/2018 2:42:55 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W2 3'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 9:30:00 AM

**Lab ID:** 1806B11-010

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1200	75		mg/Kg	50	6/20/2018 3:31:03 PM	38773

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W2 4'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 9:30:00 AM

**Lab ID:** 1806B11-011

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1700	75		mg/Kg	50	6/20/2018 3:43:28 PM	38773

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W2 6'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 9:30:00 AM

**Lab ID:** 1806B11-012

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1100	75		mg/Kg	50	6/20/2018 4:57:55 PM	38773

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W2 8'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 9:30:00 AM

**Lab ID:** 1806B11-013

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	190	30		mg/Kg	20	6/19/2018 11:41:30 PM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W3 Surface

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 10:00:00 AM

**Lab ID:** 1806B11-014

**Matrix:** MEOH (SOIL)

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	41000	1500		mg/Kg	1E	6/20/2018 5:10:20 PM	38776
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	5.4	3.5		mg/Kg	1	6/20/2018 3:05:57 AM	C52084
Surr: BFB	121	70-130		%Rec	1	6/20/2018 3:05:57 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/20/2018 11:55:43 AM	38767
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/20/2018 11:55:43 AM	38767
Surr: DNOP	103	70-130		%Rec	1	6/20/2018 11:55:43 AM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.018		mg/Kg	1	6/20/2018 3:05:57 AM	A52084
Toluene	ND	0.035		mg/Kg	1	6/20/2018 3:05:57 AM	A52084
Ethylbenzene	ND	0.035		mg/Kg	1	6/20/2018 3:05:57 AM	A52084
Xylenes, Total	ND	0.071		mg/Kg	1	6/20/2018 3:05:57 AM	A52084
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	6/20/2018 3:05:57 AM	A52084
Surr: Toluene-d8	101	70-130		%Rec	1	6/20/2018 3:05:57 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**Date Reported: **6/25/2018****CLIENT:** HRL Compliance Solutions**Client Sample ID:** W3 1'**Project:** Williams Fee 1H**Collection Date:** 6/18/2018 10:00:00 AM**Lab ID:** 1806B11-015**Matrix:** MEOH (SOIL)**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	14000	750		mg/Kg	500	6/20/2018 5:22:45 PM	38776
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/20/2018 3:28:59 AM	C52084
Surr: BFB	114	70-130		%Rec	1	6/20/2018 3:28:59 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/20/2018 12:17:49 PM	38767
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2018 12:17:49 PM	38767
Surr: DNOP	107	70-130		%Rec	1	6/20/2018 12:17:49 PM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.019		mg/Kg	1	6/20/2018 3:28:59 AM	A52084
Toluene	ND	0.039		mg/Kg	1	6/20/2018 3:28:59 AM	A52084
Ethylbenzene	ND	0.039		mg/Kg	1	6/20/2018 3:28:59 AM	A52084
Xylenes, Total	ND	0.078		mg/Kg	1	6/20/2018 3:28:59 AM	A52084
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	6/20/2018 3:28:59 AM	A52084
Surr: Toluene-d8	97.0	70-130		%Rec	1	6/20/2018 3:28:59 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W3 2'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 10:00:00 AM

**Lab ID:** 1806B11-016

**Matrix:** MEOH (SOIL)

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	6300	300		mg/Kg	200	6/20/2018 5:35:09 PM	38776
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	6/20/2018 3:52:02 AM	C52084
Surr: BFB	118	70-130		%Rec	1	6/20/2018 3:52:02 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/20/2018 12:39:56 PM	38767
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2018 12:39:56 PM	38767
Surr: DNOP	106	70-130		%Rec	1	6/20/2018 12:39:56 PM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.016		mg/Kg	1	6/20/2018 3:52:02 AM	A52084
Toluene	ND	0.032		mg/Kg	1	6/20/2018 3:52:02 AM	A52084
Ethylbenzene	ND	0.032		mg/Kg	1	6/20/2018 3:52:02 AM	A52084
Xylenes, Total	ND	0.063		mg/Kg	1	6/20/2018 3:52:02 AM	A52084
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	6/20/2018 3:52:02 AM	A52084
Surr: Toluene-d8	101	70-130		%Rec	1	6/20/2018 3:52:02 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W3 3'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 10:00:00 AM

**Lab ID:** 1806B11-017

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	600	30		mg/Kg	20	6/20/2018 1:20:46 AM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W3 4'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 10:00:00 AM

**Lab ID:** 1806B11-018

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1800	75		mg/Kg	50	6/20/2018 5:47:33 PM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W3 6'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 10:00:00 AM

**Lab ID:** 1806B11-019

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1200	75		mg/Kg	50	6/20/2018 5:59:57 PM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W3 8'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 10:00:00 AM

**Lab ID:** 1806B11-020

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1000	30		mg/Kg	20	6/20/2018 1:58:00 AM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B11**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** W3 10'

**Project:** Williams Fee 1H

**Collection Date:** 6/18/2018 10:00:00 AM

**Lab ID:** 1806B11-021

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	290	30		mg/Kg	20	6/20/2018 2:10:25 AM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B11

25-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 1H

Sample ID	MB-38773		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 38773		RunNo: 52083					
Prep Date:	6/19/2018		Analysis Date: 6/19/2018		SeqNo: 1705345		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-38773		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 38773		RunNo: 52083					
Prep Date:	6/19/2018		Analysis Date: 6/19/2018		SeqNo: 1705346		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			

Sample ID	MB-38776		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	38776		RunNo:	52083				
Prep Date:	6/19/2018		Analysis Date:	6/19/2018		SeqNo:	1705377		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-38776		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 38776		RunNo: 52083					
Prep Date:	6/19/2018		Analysis Date: 6/19/2018		SeqNo: 1705378		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	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 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 Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B11

25-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 1H

Sample ID	LCS-38767		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 38767		RunNo: 52095					
Prep Date:	6/19/2018		Analysis Date: 6/20/2018		SeqNo: 1705232		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.7	70	130			
Surr: DNOP	4.8		5.000		95.2	70	130			

Sample ID	MB-38767		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 38767		RunNo: 52095					
Prep Date:	6/19/2018		Analysis Date: 6/20/2018		SeqNo: 1705233		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	9.8		10.00		98.0	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 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 Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B11

25-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 1H

Sample ID	100ng btex lcs	SampType:	LCS4	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	A52084	RunNo:	52084					
Prep Date:		Analysis Date:	6/19/2018	SeqNo:	1704341	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	118	80	120			
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.9	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	A52084	RunNo:	52084					
Prep Date:		Analysis Date:	6/19/2018	SeqNo:	1704351	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	0.58		0.5000		117	70	130			
Surr: Toluene-d8	0.53		0.5000		105	70	130			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B11

25-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 1H

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	C52084	RunNo:	52084					
Prep Date:		Analysis Date:	6/19/2018	SeqNo:	1704338	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	70	130			
Surr: BFB	500		500.0		100	70	130			

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	C52084	RunNo:	52084					
Prep Date:		Analysis Date:	6/19/2018	SeqNo:	1704339	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	560		500.0		112	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 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 Detection Limit  
W Sample container temperature is out of limit as specified





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

## Sample Log-In Check List

Client Name: HRL COMPLIANCE ART

Work Order Number: 1806B11

RcptNo: 1

Received By: Mandy Woods 6/19/2018 8:30:00 AM

Completed By: Ashley Gallegos 6/19/2018 9:54:17 AM

Reviewed By: IO

6/19/18

Labeled by: ENM 6/19/18

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. 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? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:  
( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by:

ENM 6/19/18

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

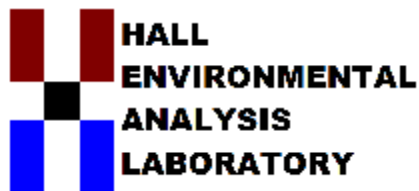
16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 25, 2018

Lupe Carrasco  
HRL Compliance Solutions  
PO Box 1708  
Artesia, NM 88211  
TEL: (505) 238-3588  
FAX

RE: Williams Fee 1 H

OrderNo.: 1806B15

Dear Lupe Carrasco:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/19/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 22, 2018.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B15**Date Reported: **6/25/2018****CLIENT:** HRL Compliance Solutions**Client Sample ID:** E1 Surface**Project:** Williams Fee 1 H**Collection Date:** 6/18/2018 11:00:00 AM**Lab ID:** 1806B15-001**Matrix:** MEOH (SOIL)**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	8700	300		mg/Kg	200	6/20/2018 6:12:22 PM	38776
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	6/20/2018 4:15:02 AM	C52084
Surr: BFB	114	70-130		%Rec	1	6/20/2018 4:15:02 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/20/2018 8:58:51 AM	38767
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2018 8:58:51 AM	38767
Surr: DNOP	101	70-130		%Rec	1	6/20/2018 8:58:51 AM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.015		mg/Kg	1	6/20/2018 4:15:02 AM	A52084
Toluene	ND	0.031		mg/Kg	1	6/20/2018 4:15:02 AM	A52084
Ethylbenzene	ND	0.031		mg/Kg	1	6/20/2018 4:15:02 AM	A52084
Xylenes, Total	ND	0.062		mg/Kg	1	6/20/2018 4:15:02 AM	A52084
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	6/20/2018 4:15:02 AM	A52084
Surr: Toluene-d8	97.9	70-130		%Rec	1	6/20/2018 4:15:02 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B15**Date Reported: **6/25/2018****CLIENT:** HRL Compliance Solutions**Client Sample ID:** E1 1'**Project:** Williams Fee 1 H**Collection Date:** 6/18/2018 11:00:00 AM**Lab ID:** 1806B15-002**Matrix:** MEOH (SOIL)**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	840	30		mg/Kg	20	6/20/2018 3:00:02 AM	38776
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/20/2018 4:38:04 AM	C52084
Surr: BFB	115	70-130		%Rec	1	6/20/2018 4:38:04 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/20/2018 9:20:51 AM	38767
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2018 9:20:51 AM	38767
Surr: DNOP	99.1	70-130		%Rec	1	6/20/2018 9:20:51 AM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.018		mg/Kg	1	6/20/2018 4:38:04 AM	A52084
Toluene	ND	0.036		mg/Kg	1	6/20/2018 4:38:04 AM	A52084
Ethylbenzene	ND	0.036		mg/Kg	1	6/20/2018 4:38:04 AM	A52084
Xylenes, Total	ND	0.073		mg/Kg	1	6/20/2018 4:38:04 AM	A52084
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	6/20/2018 4:38:04 AM	A52084
Surr: Toluene-d8	95.9	70-130		%Rec	1	6/20/2018 4:38:04 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B15**Date Reported: **6/25/2018****CLIENT:** HRL Compliance Solutions**Client Sample ID:** E1 2'**Project:** Williams Fee 1 H**Collection Date:** 6/18/2018 11:00:00 AM**Lab ID:** 1806B15-003**Matrix:** MEOH (SOIL)**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	420	30		mg/Kg	20	6/20/2018 3:37:15 AM	38776
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	6/20/2018 5:01:07 AM	C52084
Surr: BFB	115	70-130		%Rec	1	6/20/2018 5:01:07 AM	C52084
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/20/2018 9:42:57 AM	38767
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2018 9:42:57 AM	38767
Surr: DNOP	99.7	70-130		%Rec	1	6/20/2018 9:42:57 AM	38767
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.015		mg/Kg	1	6/20/2018 5:01:07 AM	A52084
Toluene	ND	0.030		mg/Kg	1	6/20/2018 5:01:07 AM	A52084
Ethylbenzene	ND	0.030		mg/Kg	1	6/20/2018 5:01:07 AM	A52084
Xylenes, Total	ND	0.059		mg/Kg	1	6/20/2018 5:01:07 AM	A52084
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	6/20/2018 5:01:07 AM	A52084
Surr: Toluene-d8	99.0	70-130		%Rec	1	6/20/2018 5:01:07 AM	A52084

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B15**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** E1 3'

**Project:** Williams Fee 1 H

**Collection Date:** 6/18/2018 11:00:00 AM

**Lab ID:** 1806B15-004

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	570	30		mg/Kg	20	6/20/2018 3:49:40 AM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B15**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** E1 4'

**Project:** Williams Fee 1 H

**Collection Date:** 6/18/2018 11:00:00 AM

**Lab ID:** 1806B15-005

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>	
Chloride	260	30		mg/Kg	20	6/20/2018 4:02:05 AM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B15**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** E1 6'

**Project:** Williams Fee 1 H

**Collection Date:** 6/18/2018 11:00:00 AM

**Lab ID:** 1806B15-006

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	180	30		mg/Kg	20	6/20/2018 4:14:29 AM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B15**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** E1 8'

**Project:** Williams Fee 1 H

**Collection Date:** 6/18/2018 11:00:00 AM

**Lab ID:** 1806B15-007

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	130	30		mg/Kg	20	6/20/2018 4:26:53 AM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B15**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** E1 10'

**Project:** Williams Fee 1 H

**Collection Date:** 6/18/2018 11:00:00 AM

**Lab ID:** 1806B15-008

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	400	30		mg/Kg	20	6/20/2018 4:39:18 AM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1806B15**

Date Reported: **6/25/2018**

**CLIENT:** HRL Compliance Solutions

**Client Sample ID:** E1 12'

**Project:** Williams Fee 1 H

**Collection Date:** 6/18/2018 11:00:00 AM

**Lab ID:** 1806B15-009

**Matrix:** SOIL

**Received Date:** 6/19/2018 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	760	30		mg/Kg	20	6/20/2018 4:51:42 AM	38776

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B15

25-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 1 H

Sample ID	MB-38776		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	38776		RunNo:	52083				
Prep Date:	6/19/2018		Analysis Date:	6/19/2018		SeqNo:	1705377		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-38776		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 38776		RunNo: 52083					
Prep Date:	6/19/2018		Analysis Date: 6/19/2018		SeqNo: 1705378		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	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 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 Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B15

25-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 1 H

Sample ID	LCS-38767		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 38767		RunNo: 52095					
Prep Date:	6/19/2018		Analysis Date: 6/20/2018		SeqNo: 1705232		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.7	70	130			
Surr: DNOP	4.8		5.000		95.2	70	130			

Sample ID	MB-38767		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 38767		RunNo: 52095					
Prep Date:	6/19/2018		Analysis Date: 6/20/2018		SeqNo: 1705233		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	9.8		10.00		98.0	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 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 Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B15

25-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 1 H

Sample ID	100ng btex lcs	SampType:	LCS4	TestCode:	EPA Method 8260B: Volatiles Short List						
Client ID:	BatchQC	Batch ID:	A52084	RunNo:	52084						
Prep Date:		Analysis Date:	6/19/2018	SeqNo:	1704341	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.2	0.025	1.000	0	118	80	120				
Toluene	1.1	0.050	1.000	0	110	80	120				
Ethylbenzene	1.1	0.050	1.000	0	112	80	120				
Xylenes, Total	3.3	0.10	3.000	0	109	80	120				
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.9	70	130				
Surr: Toluene-d8	0.51		0.5000		103	70	130				

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List						
Client ID:	PBS	Batch ID:	A52084	RunNo:	52084						
Prep Date:		Analysis Date:	6/19/2018	SeqNo:	1704351	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	0.58		0.5000		117	70	130				
Surr: Toluene-d8	0.53		0.5000		105	70	130				

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B15

25-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 1 H

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	C52084	RunNo:	52084					
Prep Date:		Analysis Date:	6/19/2018	SeqNo:	1704338	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	70	130			
Surr: BFB	500		500.0		100	70	130			

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	C52084	RunNo:	52084					
Prep Date:		Analysis Date:	6/19/2018	SeqNo:	1704339	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	560		500.0		112	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 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 Detection Limit  
W Sample container temperature is out of limit as specified

## Sample Log-In Check List

Client Name: HRL COMPLIANCE ART

Work Order Number: 1806B15

RcptNo: 1

Received By: Mandy Woods 6/19/2018 8:30:00 AM

Completed By: Ashley Gallegos 6/19/2018 10:00:57 AM

Reviewed By: *[Signature]* 6/19/18

Labeled by: *20* 6/19/18

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

### 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 ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved bottles checked for pH: *20*  
(*<2 or >12 unless noted*)  
Adjusted? *6/19/18*  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

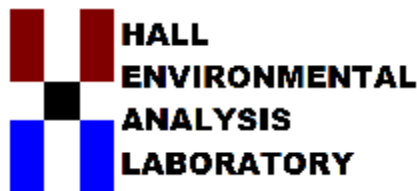
Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 25, 2018

Lupe Carrasco  
HRL Compliance Solutions  
PO Box 1708  
Artesia, NM 88211  
TEL: (505) 238-3588  
FAX

RE: Williams Fee 1H

OrderNo.: 1806B18

Dear Lupe Carrasco:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/19/2018 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](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order: 1806B18

Date Reported: 6/25/2018

**CLIENT:** HRL Compliance Solutions

**Lab Order:** 1806B18

**Project:** Williams Fee 1H

**Lab ID:** 1806B18-001

**Collection Date:** 6/18/2018 11:30:00 AM

**Client Sample ID:** W1

**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	8800	500	*	mg/L	1E	6/20/2018 1:10:21 PM	R52134

**Lab ID:** 1806B18-002

**Collection Date:** 6/18/2018 11:30:00 AM

**Client Sample ID:** W2

**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	2400	100	*	mg/L	200	6/20/2018 1:22:45 PM	R52134

**Lab ID:** 1806B18-003

**Collection Date:** 6/18/2018 11:30:00 AM

**Client Sample ID:** W3

**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	2500	100	*	mg/L	200	6/20/2018 1:35:10 PM	R52134

**Lab ID:** 1806B18-004

**Collection Date:** 6/18/2018 11:30:00 AM

**Client Sample ID:** BG

**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	6100	250	*	mg/L	500	6/20/2018 1:47:34 PM	R52134

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 Quantitative 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 Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1806B18

25-Jun-18

Client: HRL Compliance Solutions

Project: Williams Fee 1H

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R52134	RunNo:	52134					
Prep Date:		Analysis Date:	6/20/2018	SeqNo:	1707308	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R52134	RunNo:	52134					
Prep Date:		Analysis Date:	6/20/2018	SeqNo:	1707309	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.8	90	110			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R52134	RunNo:	52134					
Prep Date:		Analysis Date:	6/20/2018	SeqNo:	1707362	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R52134	RunNo:	52134					
Prep Date:		Analysis Date:	6/20/2018	SeqNo:	1707363	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.8	90	110			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R52134	RunNo:	52134					
Prep Date:		Analysis Date:	6/21/2018	SeqNo:	1707395	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R52134	RunNo:	52134					
Prep Date:		Analysis Date:	6/21/2018	SeqNo:	1707396	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.4	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 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 Detection Limit  
W Sample container temperature is out of limit as specified



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

## Sample Log-In Check List

Client Name: HRL COMPLIANCE ART

Work Order Number: 1806B18

RcptNo: 1

Received By: Mandy Woods 6/19/2018 8:30:00 AM

Completed By: Ashley Gallegos 6/19/2018 10:04:39 AM

Reviewed By: ID

6/19/18

Labeled by:

mw 6/19/18

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. 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? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $\leq 2$  or  $> 12$  unless noted)

Adjusted:

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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			

# Chain-of-Custody Record

Client: HL

Mailing Address:

Phone #: 505-725-0787

email or Fax#: lcarrasco@holcomp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: 24 hour

☐ Standard ☒ Rush

Project Name: Williams Fee #1H

Project #:

Project Manager:

Lupe Carrasco

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.0° (10.0°) = 4.0

Container Type and #

Preservative Type

HEAL No

1806018

Jar

-001

Jar

-002

Jar

-003

Jar

-004

Jar

Water W1

Water W2

Water W3

Water W4

Water W5

Water W6

Water W7

Water W8

Water W9

Water W10

Water W11

Water W12

Water W13

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Water W225

Water W226

Water W227

Water W228

Water W229

Water W230

Water W231

Water W232

Water W233

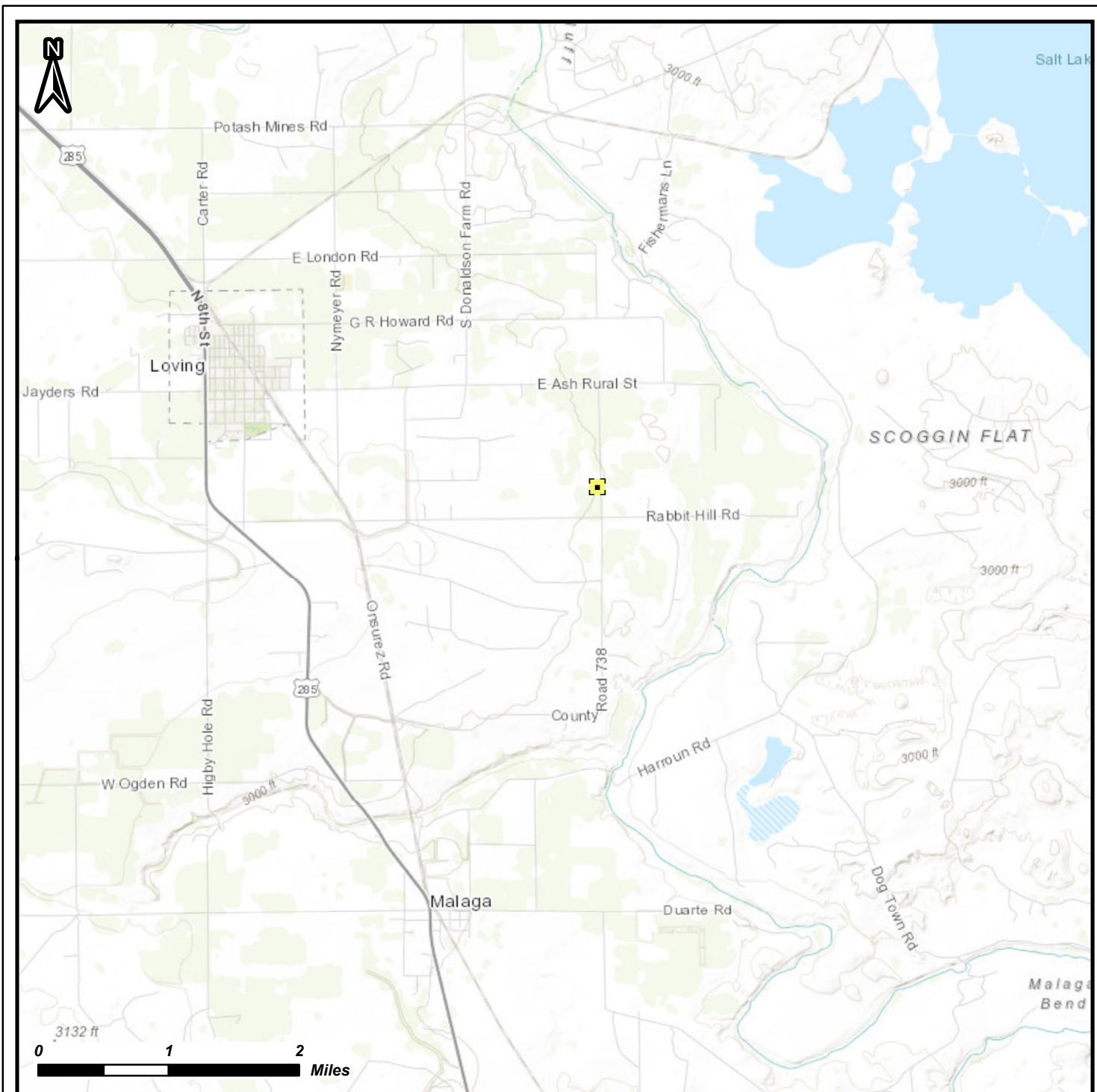
Water W234

Water W235



**Attachment B:**

**Site Location Map  
Wetlands Map  
Floodplain Map**




# KAISER-FRANCIS OIL COMPANY General Location Map

Williams Fee 2524 LBC 001H

32.272593 -104.049334  
Section 25, Township 23 South, Range 29 East

## Legend

 Williams Fee 2524 LBC 001H

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HRL assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantees as to the quality or accuracy of the underlying data.



**HRL**  
COMPLIANCE  
SOLUTIONS

Author: A. Asay  
Revision: 0  
Date: 11/28/2018



U.S. Fish and Wildlife Service

# National Wetlands Inventory



Williams Fee 2524 LBC #1H



U.S. Fish and Wildlife Service, National Standards and Support Team,  
wetlands\_team@fws.gov

November 28, 2018

## Wetlands

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

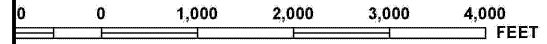
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



ance Program at 1-800-638-6620.



MAP SCALE 1" = 2000'



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1350D

# FIRM

FLOOD INSURANCE RATE MAP  
EDDY COUNTY,  
NEW MEXICO  
AND INCORPORATED AREAS

PANEL 1350 OF 2000

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
LOVING, VILLAGE OF	350114	1350	D
EDDY COUNTY, UNINCORPORATED AREAS	350120	1350	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



**MAP NUMBER**  
35015C1350D  
**EFFECTIVE DATE**  
JUNE 4, 2010

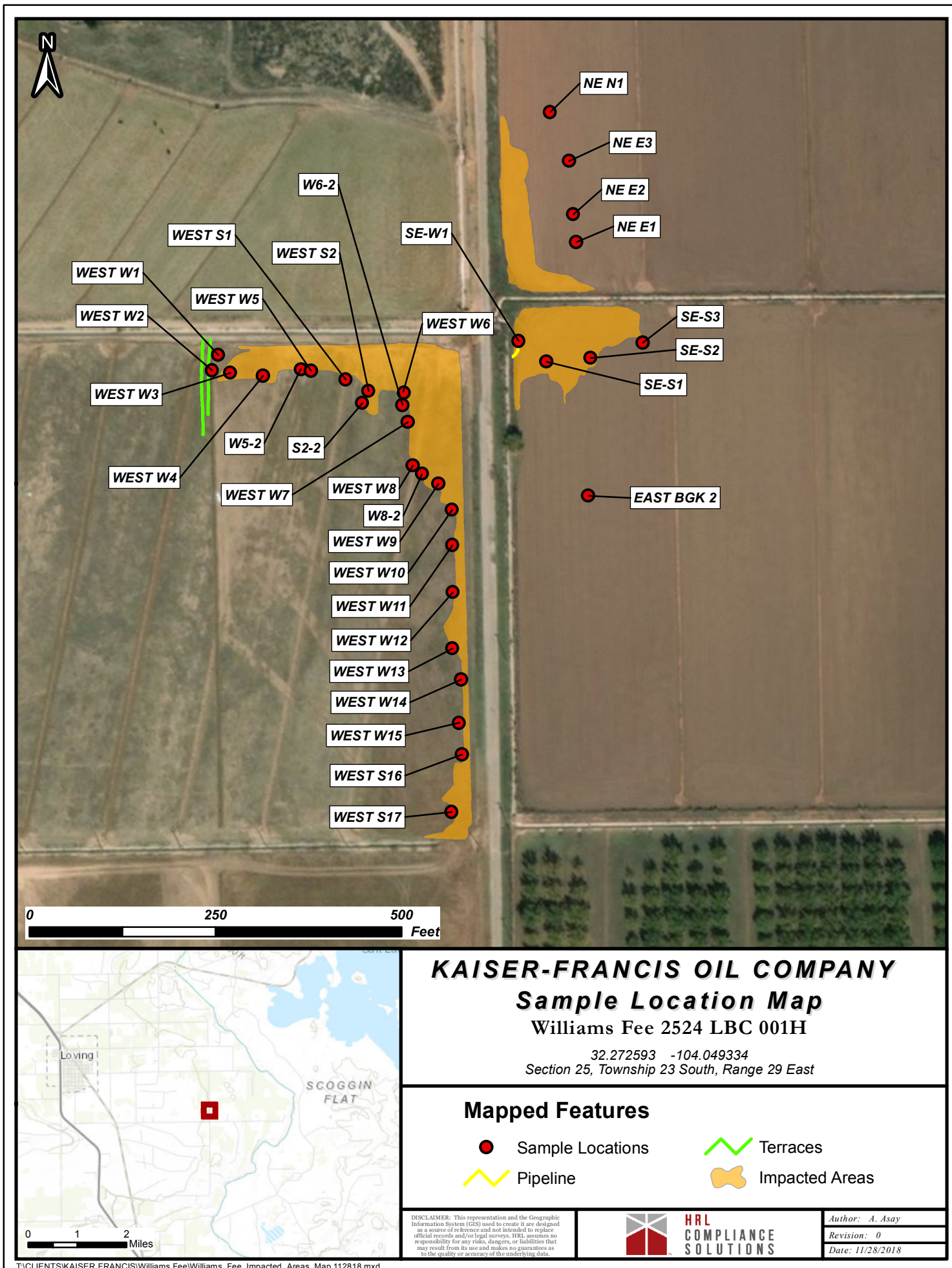
Federal Emergency Management Agency

ZONE A

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)



**Attachment C:**  
**Sample Location Map**





**Attachment D:**  
**Laboratory Analytical Reports**

November 09, 2018

JENNIFER KNOWLTON  
HRL COMPLIANCE SOLUTIONS, INC.  
2385 F 1/2 ROAD  
GRAND JUNCTION, CO 81505

RE: KAISER FRANCES

Enclosed are the results of analyses for samples received by the laboratory on 11/08/18 13:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

HRL COMPLIANCE SOLUTIONS, INC.  
JENNIFER KNOWLTON  
2385 F 1/2 ROAD  
GRAND JUNCTION CO, 81505  
Fax To:

Received:	11/08/2018	Sampling Date:	11/08/2018
Reported:	11/09/2018	Sampling Type:	Soil
Project Name:	KAISER FRANCES	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	WILLIAMS FEE		

**Sample ID: WEST - W11 (H803234-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/09/2018	ND	416	104	400	0.00	

**Sample ID: WEST - W12 (H803234-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	11/09/2018	ND	416	104	400	0.00	

**Sample ID: WEST - W13 (H803234-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/09/2018	ND	416	104	400	0.00	

**Sample ID: WEST - W14 (H803234-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/09/2018	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

HRL COMPLIANCE SOLUTIONS, INC.  
JENNIFER KNOWLTON  
2385 F 1/2 ROAD  
GRAND JUNCTION CO, 81505  
Fax To:

Received: 11/08/2018  
Reported: 11/09/2018  
Project Name: KAISER FRANCES  
Project Number: NONE GIVEN  
Project Location: WILLIAMS FEE

Sampling Date: 11/08/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: WEST - W15 (H803234-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	416	104	400	0.00	

**Sample ID: WEST - W16 (H803234-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/09/2018	ND	416	104	400	0.00	

**Sample ID: WEST - W17 (H803234-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/09/2018	ND	416	104	400	0.00		

**Sample ID: WEST - S1 (H803234-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	11/09/2018	ND	416	104	400	0.00		

**Sample ID: WEST - S2 (H803234-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	11/09/2018	ND	432	108	400	3.64	QM-07	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

HRL COMPLIANCE SOLUTIONS, INC.  
JENNIFER KNOWLTON  
2385 F 1/2 ROAD  
GRAND JUNCTION CO, 81505  
Fax To:

Received: 11/08/2018  
Reported: 11/09/2018  
Project Name: KAISER FRANCES  
Project Number: NONE GIVEN  
Project Location: WILLIAMS FEE

Sampling Date: 11/08/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: WEST - W1 (H803234-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	11/09/2018	ND	432	108	400	3.64		

**Sample ID: WEST - W2 (H803234-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	11/09/2018	ND	432	108	400	3.64	

**Sample ID: WEST - W3 (H803234-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	11/09/2018	ND	432	108	400	3.64		

**Sample ID: WEST - W4 (H803234-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	11/09/2018	ND	432	108	400	3.64	

**Sample ID: WEST - W5 (H803234-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	11/09/2018	ND	432	108	400	3.64	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 HRL COMPLIANCE SOLUTIONS, INC.  
 JENNIFER KNOWLTON  
 2385 F 1/2 ROAD  
 GRAND JUNCTION CO, 81505  
 Fax To:

Received:	11/08/2018	Sampling Date:	11/08/2018
Reported:	11/09/2018	Sampling Type:	Soil
Project Name:	KAISER FRANCES	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	WILLIAMS FEE		

**Sample ID: WEST - W6 (H803234-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8130	16.0	11/09/2018	ND	432	108	400	3.64		

**Sample ID: WEST - W7 (H803234-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/09/2018	ND	432	108	400	3.64		

**Sample ID: WEST - W8 (H803234-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	11/09/2018	ND	432	108	400	3.64		

**Sample ID: WEST - W9 (H803234-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	11/09/2018	ND	432	108	400	3.64		

**Sample ID: WEST - W10 (H803234-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	11/09/2018	ND	432	108	400	3.64		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

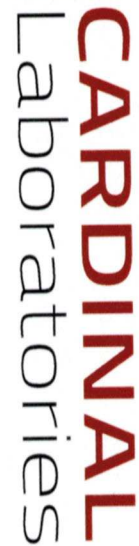
\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



rustii

## Page 7 of 8

**(575) 393-2326 FAX (575) 393-2476**

<b>BILL TO</b>			<b>ANALYSIS REQUEST</b>		
Company Name:			P.O. #:		
Project Manager:			Attn:		
Address:			City:		
State:			Zip:		
Phone #:			Fax #:		
Project Owner:			State:		
Project Location:			City:		
Sample Name:			Phone #:		
FOR LAB USE ONLY			Fax #:		

(C) 2005-2007 H&L Compliance  
H&L Compliance  
Jennifer Knudsen

H&L Compliance  
Jennifer Knudsen

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING
HPC3234	West-WI1	G	GROUNDWATER	SOIL		DATE TIME
	West-WI2	G	WASTEWATER	OIL		10/16
	West-WI3	G		SLUDGE		10/17
	West-WI4	G		OTHER :		10/19
	West-WI5	G		ACID/BASE:		10/21
	West-WI6	G		ICE / COOL		10/22
	West-WI7	G		OTHER :		10/29
	West-SI	G				10/28
	West-SA	G				10/22

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Relinquished By:	Date: 11/8/18
Reinquired By:	Date: 12/31
Time:	
Received By:	Date: 11/8/18
Time:	

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool Intact Yes No	(initials)

REMARKS:  
------------------

Email results to: j.knud@hlcomp.com

*Busch!!*

*2*

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

<b>Company Name:</b> <i>HRL Compliance</i> <b>Project Manager:</b> <i>Jennifer Knauth</i> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <i>505-238-3588</i> <b>Fax #:</b> <b>Project #:</b> <b>Project Owner:</b> <b>Project Name:</b> <i>Kaiser Frances</i> <b>Project Location:</b> <i>Williams Fee</i> <b>Sampler Name:</b> <i>Jennifer Knauth</i>				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> <i>HRL</i> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>					
<b>FOR LAB USE ONLY</b>				<b>ANALYSIS REQUEST</b>					
<b>Lab I.D.</b> <i>H803234</i> 10 West-W1 11 West-W2 12 West-W3 13 West-W4 14 West-W5 15 West-W6 16 West-W7 17 West-W8 18 West-W9 19 West-W10	<b>Sample I.D.</b>         	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	<b>MATRIX</b> <b>PRESERV</b> <b>SAMPLING</b>	<b>DATE</b> 11/8/18	<b>TIME</b> 958	<i>Chlorides 400</i>			

**Relinquished By:** *Jennifer Knauth* **Date:** *11/8/18* **Received By:** *Adel*

**Relinquished By:** *Jennifer Knauth* **Date:** *11/8/18* **Received By:** *Adel*

**Delivered By: (Circle One)** *UPS* *16.30 / #97* **Sample Condition:** ☒ Cool ☐ Intact ☐ Yes ☐ No **CHECKED BY:** *Adel*

**REMARKS:** *email results to jknauth@hrlcomp.com*

November 14, 2018

JENNIFER KNOWLTON

HRL COMPLIANCE SOLUTIONS, INC.

2385 F 1/2 ROAD

GRAND JUNCTION, CO 81505

RE: KAISER FRANCES

Enclosed are the results of analyses for samples received by the laboratory on 11/08/18 13:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

HRL COMPLIANCE SOLUTIONS, INC.  
JENNIFER KNOWLTON  
2385 F 1/2 ROAD  
GRAND JUNCTION CO, 81505  
Fax To:

Received: 11/08/2018  
Reported: 11/14/2018  
Project Name: KAISER FRANCES  
Project Number: NONE GIVEN  
Project Location: WILLIAMS FEE

Sampling Date: 11/08/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SE-W1 (H803235-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	11/14/2018	ND	416	104	400	0.00	

**Sample ID: SE-S1 (H803235-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	11/14/2018	ND	416	104	400	0.00	

**Sample ID: SE-S2 (H803235-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	11/14/2018	ND	416	104	400	0.00	

**Sample ID: SE-S3 (H803235-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	11/14/2018	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

HRL COMPLIANCE SOLUTIONS, INC.  
JENNIFER KNOWLTON  
2385 F 1/2 ROAD  
GRAND JUNCTION CO, 81505  
Fax To:

Received: 11/08/2018  
Reported: 11/14/2018  
Project Name: KAISER FRANCES  
Project Number: NONE GIVEN  
Project Location: WILLIAMS FEE

Sampling Date: 11/08/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SE-E1 (H803235-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	11/14/2018	ND	416	104	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

November 14, 2018

JENNIFER KNOWLTON

HRL COMPLIANCE SOLUTIONS, INC.

2385 F 1/2 ROAD

GRAND JUNCTION, CO 81505

RE: KAISER FRANCES

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Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

HRL COMPLIANCE SOLUTIONS, INC.  
JENNIFER KNOWLTON  
2385 F 1/2 ROAD  
GRAND JUNCTION CO, 81505  
Fax To:

Received:	11/08/2018	Sampling Date:	11/08/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	KAISER FRANCES	Sampling Condition:	** (See Notes)
Project Number:	WILLIAMS FEE	Sample Received By:	Jodi Henson
Project Location:	WILLIAMS FEE		

**Sample ID: NE - E1 (H803236-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	11/14/2018	ND	432	108	400	3.64	QM-07

**Sample ID: NE - E2 (H803236-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	11/14/2018	ND	432	108	400	3.64	

**Sample ID: NE - E3 (H803236-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	11/14/2018	ND	432	108	400	3.64	

**Sample ID: NE - N1 (H803236-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	11/14/2018	ND	432	108	400	3.64	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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MARKS:

Email results to: [knowlton@nrl.com.p.com](mailto:knowlton@nrl.com.p.com)

November 27, 2018

JENNIFER KNOWLTON

HRL COMPLIANCE SOLUTIONS, INC.

2385 F 1/2 ROAD

GRAND JUNCTION, CO 81505

RE: WILLIAMS FEE

Enclosed are the results of analyses for samples received by the laboratory on 11/27/18 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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Method EPA 524.2	Total Trihalomethanes (TTHM)
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Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

HRL COMPLIANCE SOLUTIONS, INC.  
JENNIFER KNOWLTON  
2385 F 1/2 ROAD  
GRAND JUNCTION CO, 81505  
Fax To:

Received: 11/27/2018  
Reported: 11/27/2018  
Project Name: WILLIAMS FEE  
Project Number: NONE GIVEN  
Project Location: KAISER - FRANCIS

Sampling Date: 11/26/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: W5 - 2 (H803451-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/27/2018	ND	432	108	400	3.77	

**Sample ID: W6 - 2 (H803451-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	11/27/2018	ND	432	108	400	3.77	

**Sample ID: W8 - 3 (H803451-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	11/27/2018	ND	432	108	400	3.77	

**Sample ID: WS 2 - 2 (H803451-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	11/27/2018	ND	432	108	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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***	Insufficient time to reach temperature.
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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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## ANALYSIS REQUEST

**PLEASE NOTE:** Liability and damages. Cardinal's liability and clients' exclusive remedy, for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All damages including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

ksmith@hudsonp.com

November 27, 2018

JENNIFER KNOWLTON  
HRL COMPLIANCE SOLUTIONS, INC.  
2385 F 1/2 ROAD  
GRAND JUNCTION, CO 81505

RE: WILLIAMS FEE

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Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

HRL COMPLIANCE SOLUTIONS, INC.  
JENNIFER KNOWLTON  
2385 F 1/2 ROAD  
GRAND JUNCTION CO, 81505  
Fax To:

Received: 11/27/2018  
Reported: 11/27/2018  
Project Name: WILLIAMS FEE  
Project Number: 1H  
Project Location: KAISER - FRANCIS

Sampling Date: 11/26/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: EAST BACKGROUND 2 (H803453-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5360</b>	16.0	11/27/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

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Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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+ Cardinal cannot accept verbal change. Place for written change to (E7E) 202-2226