



June 28, 2018

NMOCD District II
Mike Bratcher
811 S 1st 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
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM

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



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

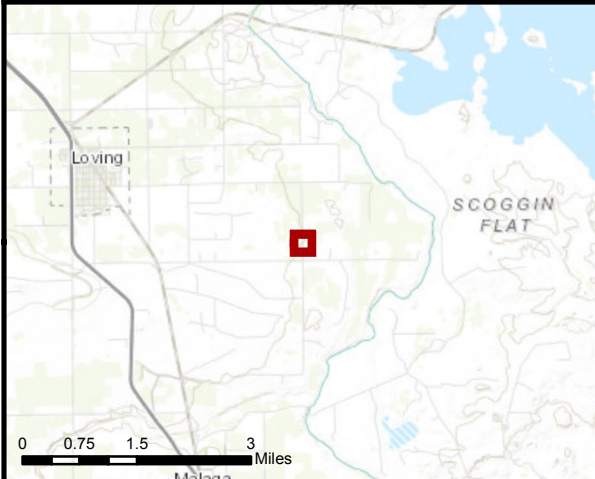
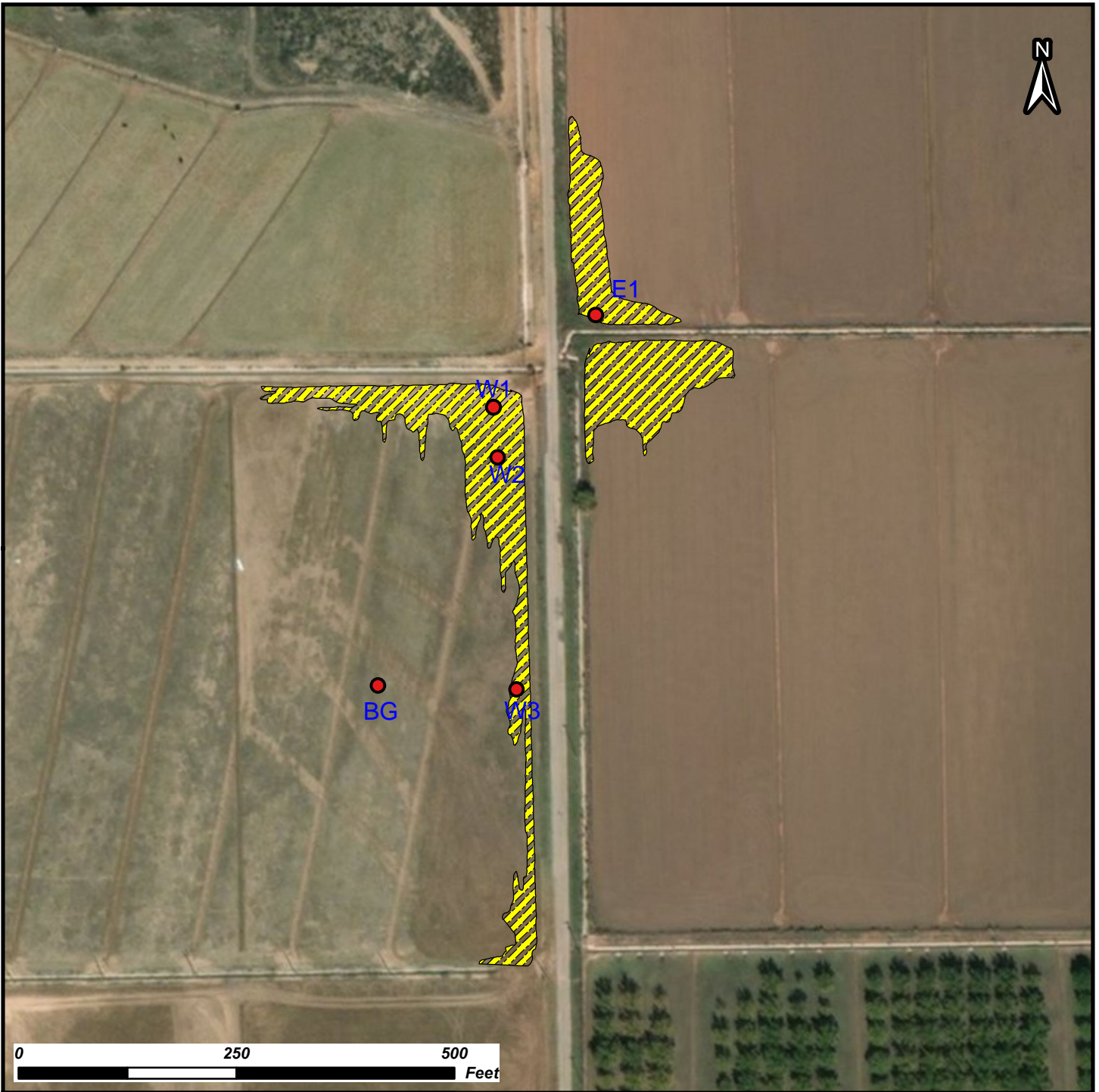
Appendix A: Form C141 Initial

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 accordance with 19.15.29 NMAC.
Santa Fe, NM 87505

Release Notification and Corrective Action

NAB1816439718 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Kaiser Francis Oil Co 12361	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 **32.2718** Longitude **-104.2582** W NAD83

NATURE OF RELEASE

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

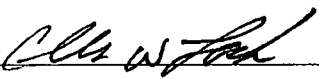
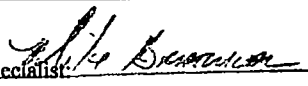
Describe Cause of Problem and Remedial Action Taken.*

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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Charles Lock	Approved by Environmental Specialist 	
Title: EH&S Manager	Approval Date: 6/12/18	Expiration Date: N/A
E-mail Address: charlesl@kfoc.net	Conditions of Approval: See Attached	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															
POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column	
C 00136		CUB	ED	3	1	2	25	23S	28E	590426	3571967*		200	42	158
C 00136 A		CUB	ED	4	4	4	25	23S	28E	591037	3570753*		100	60	40
C 00136 CLW194026	O		ED	3	1	2	25	23S	28E	590426	3571967*		200	52	148
C 00136 CLW235233	O		ED	3	1	2	25	23S	28E	590426	3571967*		200	42	158
C 00136 S		CUB	ED	1	1	2	25	23S	28E	590426	3572167*		122	45	77
C 00475		CUB	ED	2	1	3	25	23S	28E	589822	3571347*		144	38	106
C 01443		C	ED		2	1	25	23S	28E	590123	3572064*		50	27	23
C 03001 EXPLORE		CUB	ED	1	1	4	25	23S	28E	590430	3571355*		140		
C 03535 POD1		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

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 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

Lab Order: 1806B10

Project: Williams Fee 2524 LDC 1H

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
EPA METHOD 300.0: ANIONS							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
EPA METHOD 300.0: ANIONS							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
EPA METHOD 300.0: ANIONS							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
EPA METHOD 300.0: ANIONS							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
EPA METHOD 300.0: ANIONS							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

Analytical ReportLab Order: **1806B10**Date Reported: **6/22/2018****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** HRL Compliance Solutions**Lab Order:** 1806B10**Project:** Williams Fee 2524 LDC 1H**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
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EPA METHOD 300.0: ANIONSAnalyst: **MRA**

Chloride	2200	75		mg/Kg	50	6/20/2018 1:14:34 PM	38773
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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
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EPA METHOD 300.0: ANIONSAnalyst: **MRA**

Chloride	780	30		mg/Kg	20	6/19/2018 7:08:29 PM	38773
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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
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EPA METHOD 300.0: ANIONSAnalyst: **MRA**

Chloride	930	30		mg/Kg	20	6/19/2018 7:20:54 PM	38773
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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
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: 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: *AG* 06/19/18

MS
AG
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°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: _____

Special Handling (if applicable)

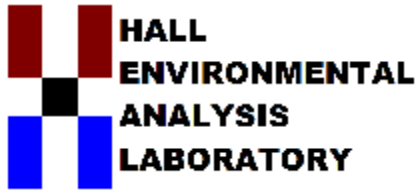
15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: 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 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 **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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4300	150		mg/Kg	100	6/20/2018 1:51:47 PM	38773
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2800	150		mg/Kg	100	6/20/2018 2:04:12 PM	38773
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	44000	3000		mg/Kg	2E	6/20/2018 2:53:50 PM	38773
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4400	300		mg/Kg	200	6/20/2018 3:06:15 PM	38773
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2900	150		mg/Kg	100	6/20/2018 3:18:39 PM	38773
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	41000	1500		mg/Kg	1E	6/20/2018 5:10:20 PM	38776
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	14000	750		mg/Kg	500	6/20/2018 5:22:45 PM	38776
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	6300	300		mg/Kg	200	6/20/2018 5:35:09 PM	38776
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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	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°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: ☐ 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
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: 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 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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8700	300		mg/Kg	200	6/20/2018 6:12:22 PM	38776
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	840	30		mg/Kg	20	6/20/2018 3:00:02 AM	38776
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	420	30		mg/Kg	20	6/20/2018 3:37:15 AM	38776
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
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.

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	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			

Chain-of-Custody Record

Client: HRL

Mailing Address:

Phone #: 575-723-0757

email or Fax#: carasco@hrcomp.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 #111

Project #:

Project Manager:

Lupe Carasco

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.0° (1.0°C) = 4.0°

Date Time Matrix Sample Request ID

6/18/18 11:00 SI 6/19/18 E1 Surface

1'

2'

3'

4'

6'

8'

10'

12'

Container Type and #

Preservative Type

HEAL No.

1800B15

-001

-002

-003

-004

-005

-006

-007

-008

-009

Date Time Relinquished by:

6/18/18 2:00 DMC

Date Time Relinquished by:

6/18/18 19:00 SP1

Received by:

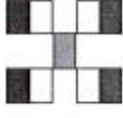
SP1

Date Time

6/18/18 14:30

Remarks:

Add BTEX per spec 6/25 of to all GAO samples.



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

✓

✓

✓

✓

✓

✓

✓

✓

✓

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✓

✓

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✓

✓

✓



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

Analytical ReportLab Order: **1806B18**Date Reported: **6/25/2018****Hall Environmental Analysis Laboratory, Inc.****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
EPA METHOD 300.0: ANIONS							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
EPA METHOD 300.0: ANIONS							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
EPA METHOD 300.0: ANIONS							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
EPA METHOD 300.0: ANIONS							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°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:

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

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