

**3R-1013**

**Release Report/ General  
Correspondence**

**Williams SJ**

**Date: Q1/Q2 2018**

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

Form C-141  
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report     Final Report

Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>Primo #1</b>	Facility Type: <b>Pipeline</b>

Surface Owner: <b>Private</b>	Mineral Owner	BLM Project No.
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>L</b>	<b>6</b>	<b>31N</b>	<b>10W</b>					<b>San Juan</b>

Latitude **36.9241**    Longitude **-107.9300**

#### NATURE OF RELEASE

Type of Release: <b>Natural Gas</b>	Volume of Release: <b>&lt;1.0 MCF</b> <b>31 yards impacted soil.</b>	Volume Recovered: <b>0 MCF</b>
Source of Release: <b>Pipeline</b>	Date and Hour of Occurrence: <b>11/30/2017 @ 11:50 AM</b>  <b>(Exceeded reportable soil limit on 2/21/2018)</b>	Date and Hour of Discovery: <b>11/30/2017 @ 11:50 AM</b>  <b>Gas loss volume determined 12/12/2017</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>NA</b>	
By Whom? <b>NA</b>	Date and Hour: <b>NA</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b> <b>NMOCD</b>	
If a Watercourse was Impacted, Describe Fully.* <b>NA</b>		
Describe Cause of Problem and Remedial Action Taken.* <b>Pipeline leak due to failure from corrosion. Leak was isolated and shut it.</b> <b>MAR 09 2018</b>		
Describe Area Affected and Cleanup Action Taken.* <b>Clean up completed. Initial clean up occurred 12/19/2017. Confirmation sample came back with exceedances. Williams went back to conduct further remediation. Second confirmation sample was collect on 2/20/2018, which came back clean.</b> <b>DISTRICT III</b> <b>Please see attached documentation for sample analysis reports and further details.</b>		

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kijun Hong</b>	Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>	Approval Date: <b>3/12/18</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>	Conditions of Approval: <b>—</b>	Attached <input type="checkbox"/>
Date: <b>3/5/2018</b>	Phone: <b>(505) 632-4475</b>	

\* Attach Additional Sheets If Necessary

#NCS1807132797

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Remediation Excavation and Sampling Form

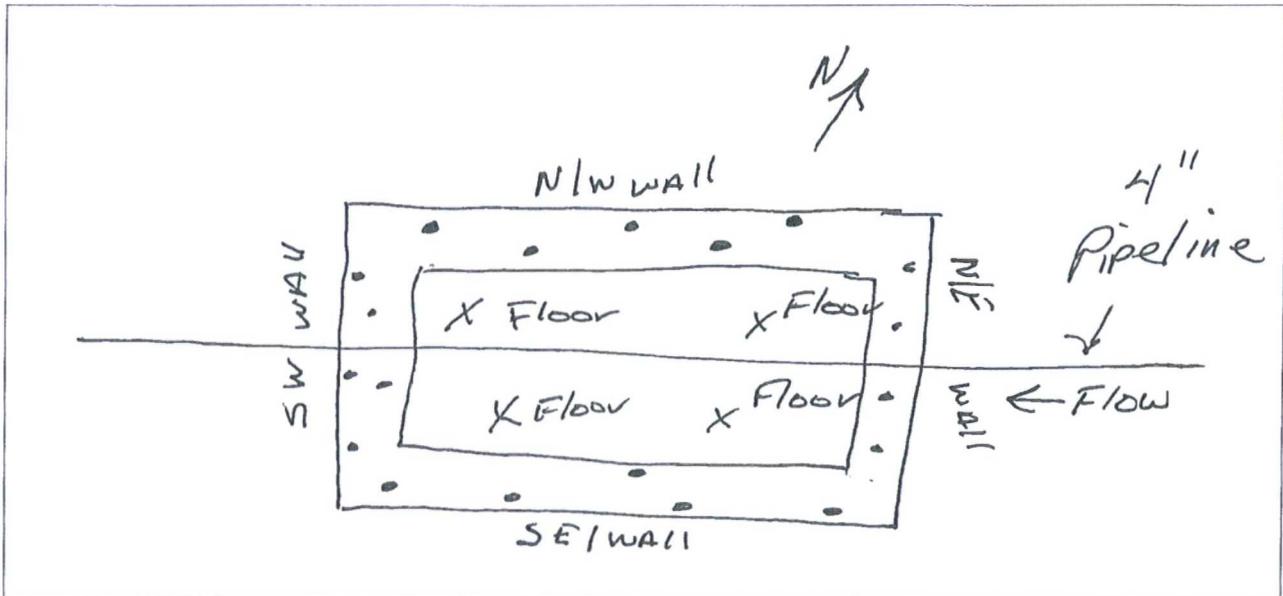
Site Name PRIMO CDP #1

Excavation Dimensions (feet)

12' Length 9' Width 5' Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information

OCD Witness Sampling Yes or No Yes

Agency(s) Representative(s) \_\_\_\_\_

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
PRIMO-CDP-F	12-19-17	COMP	FLOOR	
PRIMO-CDP-SW-W	12-19-17	COMP	SW-WALL	
PRIMO-CDP-SE-W	12-19-17	COMP	SE-WALL	
PRIMO-CDP-NE-W	12-19-17	COMP	NE-WALL	
PRIMO-CDP-NW-W	12-19-17	COMP	NW-WALL	



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

January 10, 2018

Kijun Hong  
Williams Field Services  
1755 Arroyo Dr.,  
Bloomfield, NM 87413  
TEL: (505) 632-4442  
FAX

RE: PRIMO CDP 1 Line Leak

OrderNo.: 1712C34

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/20/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: PRIMO-CDP-S/W-WALL

Project: PRIMO CDP 1 Line Leak

Collection Date: 12/19/2017 11:40:00 AM

Lab ID: 1712C34-001

Matrix: SOIL

Received Date: 12/20/2017 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	1/7/2018 12:04:41 PM	35886
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/22/2017 10:50:54 PM	35673
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/22/2017 10:50:54 PM	35673
Surr: DNOP	87.9	70-130		%Rec	1	12/22/2017 10:50:54 PM	35673
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/22/2017 11:55:05 AM	35660
Surr: BFB	98.1	15-316		%Rec	1	12/22/2017 11:55:05 AM	35660
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	12/22/2017 11:55:05 AM	35660
Benzene	ND	0.024		mg/Kg	1	12/22/2017 11:55:05 AM	35660
Toluene	ND	0.048		mg/Kg	1	12/22/2017 11:55:05 AM	35660
Ethylbenzene	ND	0.048		mg/Kg	1	12/22/2017 11:55:05 AM	35660
Xylenes, Total	0.25	0.096		mg/Kg	1	12/22/2017 11:55:05 AM	35660
Surr: 4-Bromofluorobenzene	95.5	80-120		%Rec	1	12/22/2017 11:55:05 AM	35660

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

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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services  
**Project:** PRIMO CDP 1 Line Leak  
**Lab ID:** 1712C34-002

**Matrix:** SOIL

**Client Sample ID:** PRIMO-CDP-S/E-WALL  
**Collection Date:** 12/19/2017 11:50:00 AM  
**Received Date:** 12/20/2017 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	1/7/2018 1:06:44 PM	35886
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/22/2017 11:13:13 PM	35673
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/22/2017 11:13:13 PM	35673
Surr: DNOP	81.5	70-130		%Rec	1	12/22/2017 11:13:13 PM	35673
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/22/2017 1:05:26 PM	35660
Surr: BFB	94.3	15-316		%Rec	1	12/22/2017 1:05:26 PM	35660
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.092		mg/Kg	1	12/22/2017 1:05:26 PM	35660
Benzene	ND	0.023		mg/Kg	1	12/22/2017 1:05:26 PM	35660
Toluene	ND	0.046		mg/Kg	1	12/22/2017 1:05:26 PM	35660
Ethylbenzene	ND	0.046		mg/Kg	1	12/22/2017 1:05:26 PM	35660
Xylenes, Total	0.12	0.092		mg/Kg	1	12/22/2017 1:05:26 PM	35660
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	12/22/2017 1:05:26 PM	35660

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

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

Analytical Report

Lab Order 1712C34

Date Reported: 1/10/2018

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services  
**Project:** PRIMO CDP 1 Line Leak  
**Lab ID:** 1712C34-003

**Matrix:** SOIL

**Client Sample ID:** PRIMO-CDP-N/W-WALL  
**Collection Date:** 12/19/2017 12:00:00 PM  
**Received Date:** 12/20/2017 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	1/7/2018 1:19:09 PM	35886
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/22/2017 11:35:05 PM	35673
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/22/2017 11:35:05 PM	35673
Surr: DNOP	79.6	70-130		%Rec	1	12/22/2017 11:35:05 PM	35673
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/22/2017 1:29:08 PM	35660
Surr: BFB	89.3	15-316		%Rec	1	12/22/2017 1:29:08 PM	35660
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	12/22/2017 1:29:08 PM	35660
Benzene	ND	0.025		mg/Kg	1	12/22/2017 1:29:08 PM	35660
Toluene	ND	0.050		mg/Kg	1	12/22/2017 1:29:08 PM	35660
Ethylbenzene	ND	0.050		mg/Kg	1	12/22/2017 1:29:08 PM	35660
Xylenes, Total	ND	0.10		mg/Kg	1	12/22/2017 1:29:08 PM	35660
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	12/22/2017 1:29:08 PM	35660

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.**

**CLIENT:** Williams Field Services **Client Sample ID:** PRIMO-CDP-N/E-WALL  
**Project:** PRIMO CDP 1 Line Leak **Collection Date:** 12/19/2017 12:10:00 PM  
**Lab ID:** 1712C34-004 **Matrix:** SOIL **Received Date:** 12/20/2017 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b> Analyst: <b>MRA</b>							
Chloride	ND	30		mg/Kg	20	1/7/2018 1:31:33 PM	35886
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> Analyst: <b>TOM</b>							
Diesel Range Organics (DRO)	270	10		mg/Kg	1	12/22/2017 11:57:11 PM	35673
Motor Oil Range Organics (MRO)	64	50		mg/Kg	1	12/22/2017 11:57:11 PM	35673
Surr: DNOP	97.0	70-130		%Rec	1	12/22/2017 11:57:11 PM	35673
<b>EPA METHOD 8015D: GASOLINE RANGE</b> Analyst: <b>NSB</b>							
Gasoline Range Organics (GRO)	8400	960		mg/Kg	200	12/22/2017 1:52:39 PM	35660
Surr: BFB	155	15-316		%Rec	200	12/22/2017 1:52:39 PM	35660
<b>EPA METHOD 8021B: VOLATILES</b> Analyst: <b>NSB</b>							
Methyl tert-butyl ether (MTBE)	ND	1.9		mg/Kg	20	12/22/2017 11:31:34 AM	35660
Benzene	14	0.48		mg/Kg	20	12/22/2017 11:31:34 AM	35660
Toluene	160	9.6		mg/Kg	200	12/22/2017 1:52:39 PM	35660
Ethylbenzene	30	0.96		mg/Kg	20	12/22/2017 11:31:34 AM	35660
Xylenes, Total	330	19		mg/Kg	200	12/22/2017 1:52:39 PM	35660
Surr: 4-Bromofluorobenzene	136	80-120	S	%Rec	20	12/22/2017 11:31:34 AM	35660

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#: 1712C34  
 10-Jan-18

**Client:** Williams Field Services  
**Project:** PRIMO CDP 1 Line Leak

Sample ID	<b>MB-35886</b>	SampType:	<b>mblk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>35886</b>	RunNo:	<b>48277</b>					
Prep Date:	<b>1/6/2018</b>	Analysis Date:	<b>1/6/2018</b>	SeqNo:	<b>1550535</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-35886</b>	SampType:	<b>Ics</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>35886</b>	RunNo:	<b>48277</b>					
Prep Date:	<b>1/6/2018</b>	Analysis Date:	<b>1/6/2018</b>	SeqNo:	<b>1550536</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.2	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#: 1712C34

10-Jan-18

**Client:** Williams Field Services  
**Project:** PRIMO CDP 1 Line Leak

Sample ID	<b>LCS-35673</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>35673</b>	RunNo:	<b>47979</b>					
Prep Date:	<b>12/21/2017</b>	Analysis Date:	<b>12/22/2017</b>	SeqNo:	<b>1537230</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.6	73.2	114			
Surr: DNOP	4.7		5.000		94.5	70	130			

Sample ID	<b>MB-35673</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>35673</b>	RunNo:	<b>47979</b>					
Prep Date:	<b>12/21/2017</b>	Analysis Date:	<b>12/22/2017</b>	SeqNo:	<b>1537231</b>	Units:	<b>mg/Kg</b>			
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	9.7		10.00		97.2	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#: 1712C34  
 10-Jan-18

**Client:** Williams Field Services  
**Project:** PRIMO CDP 1 Line Leak

Sample ID <b>MB-35660</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>35660</b>		RunNo: <b>47983</b>							
Prep Date: <b>12/21/2017</b>	Analysis Date: <b>12/22/2017</b>		SeqNo: <b>1537617</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.6	15	316			

Sample ID <b>LCS-35660</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>35660</b>		RunNo: <b>47983</b>							
Prep Date: <b>12/21/2017</b>	Analysis Date: <b>12/22/2017</b>		SeqNo: <b>1537618</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	75.9	131			
Surr: BFB	990		1000		98.7	15	316			

**Qualifiers:**

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- 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#: 1712C34

10-Jan-18

**Client:** Williams Field Services  
**Project:** PRIMO CDP 1 Line Leak

Sample ID	<b>MB-35660</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>35660</b>	RunNo:	<b>47983</b>					
Prep Date:	<b>12/21/2017</b>	Analysis Date:	<b>12/22/2017</b>	SeqNo:	<b>1537634</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	<b>LCS-35660</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>35660</b>	RunNo:	<b>47983</b>					
Prep Date:	<b>12/21/2017</b>	Analysis Date:	<b>12/22/2017</b>	SeqNo:	<b>1537635</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.99	0.10	1.000	0	98.9	70.1	121			
Benzene	0.95	0.025	1.000	0	94.7	77.3	128			
Toluene	0.96	0.050	1.000	0	95.7	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	97.5	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	<b>1712C34-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PRIMO-CDP-S/W-W</b>	Batch ID:	<b>35660</b>	RunNo:	<b>47983</b>					
Prep Date:	<b>12/21/2017</b>	Analysis Date:	<b>12/22/2017</b>	SeqNo:	<b>1537638</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.97	0.094	0.9443	0	102	72.5	138			
Benzene	0.93	0.024	0.9443	0.01090	97.0	80.9	132			
Toluene	0.99	0.047	0.9443	0.04436	100	79.8	136			
Ethylbenzene	0.98	0.047	0.9443	0.02382	101	79.4	140			
Xylenes, Total	3.2	0.094	2.833	0.2496	103	78.5	142			
Surr: 4-Bromofluorobenzene	0.93		0.9443		98.4	80	120			

Sample ID	<b>1712C34-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PRIMO-CDP-S/W-W</b>	Batch ID:	<b>35660</b>	RunNo:	<b>47983</b>					
Prep Date:	<b>12/21/2017</b>	Analysis Date:	<b>12/22/2017</b>	SeqNo:	<b>1537639</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.0	0.097	0.9681	0	106	72.5	138	6.06	20	
Benzene	0.96	0.024	0.9681	0.01090	98.1	80.9	132	3.58	20	
Toluene	1.0	0.048	0.9681	0.04436	100	79.8	136	2.70	20	
Ethylbenzene	1.0	0.048	0.9681	0.02382	101	79.4	140	2.69	20	

**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#: 1712C34  
 10-Jan-18

**Client:** Williams Field Services  
**Project:** PRIMO CDP 1 Line Leak

Sample ID	1712C34-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PRIMO-CDP-S/W-W	Batch ID:	35660	RunNo:	47983					
Prep Date:	12/21/2017	Analysis Date:	12/22/2017	SeqNo:	1537639	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	3.2	0.097	2.904	0.2496	102	78.5	142	1.68	20	
Surr: 4-Bromofluorobenzene	0.92		0.9681		94.9	80	120	0	0	

**Qualifiers:**

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

Work Order Number: 1712C34

RcptNo: 1

Received By: Anne Thorne 12/20/2017 6:30:00 AM

Completed By: Sophia Campuzano 12/20/2017 4:35:09 PM

Reviewed By:

### 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?  
 (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:  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	1.7	Good	Yes			

# Chain-of-Custody Record

Client: Williams Field Service

Mailing Address: 1755 AREOLA DRIVE

Bloomfield N.M. 87113

Phone #: 505-632-4475

email or Fax#: Kijun.hong@williams.com

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation

NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:

Standard  Rush

Project Name:

PRIMO COP 1 Line Leak

Project #:

06017443185

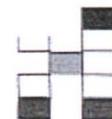
Project Manager:

Kijun Hong per KH  
spe 12/20/17

Sampler: M. Stahl

On Ice:  Yes  No

Sample Temperature: 2.7 - (-1.0) = 1.7



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	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, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
<del>12-19-17</del>	<del>11:30</del>	<del>soil</del>	<del>PRIMO-COP-FLOOR</del>	<del>402</del>	<del>ICE</del>	<del>1712034</del>												
12-19-17	11:40	soil	PRIMO-COP-SIW-WALL	402	ICE	-001	X	X										X
12-19-17	11:50	soil	PRIMO-COP-SIE-WALL	402	ICE	-002	X	X										X
2-19-17	12:00	soil	PRIMO-COP-NIW-WALL	402	ICE	-003	X	X										X
2-19-17	12:10	soil	PRIMO-COP-NIE-WALL	402	ICE	-004	X	X										X
2-19-17	11:30	soil	PRIMO-COP-FLOOR	402	ICE	-005	X	X										X

Date: 12/19/17 Time: 1430 Relinquished by: M. Stahl

Received by: [Signature] Date: 12/19/17 Time: 1430

Remarks:

Date: 12/19/17 Time: 1850 Relinquished by: [Signature]

Received by: [Signature] Date: 12/20/17 Time: 0630

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





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

February 22, 2018

Kijun Hong  
Williams Field Services  
188 Co. Rd 4900  
Bloomfield, NM 87413  
TEL:  
FAX

RE: Primo 1 Resample

OrderNo.: 1802B25

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/21/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Primo 1 NE-02 Walls

Project: Primo 1 Resample

Collection Date: 2/20/2018 10:15:00 AM

Lab ID: 1802B25-001

Matrix: SOIL

Received Date: 2/21/2018 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	31	30		mg/Kg	20	2/21/2018 10:42:43 AM	36641
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	2/21/2018 10:26:28 AM	G49276
Surr: BFB	122	70-130		%Rec	1	2/21/2018 10:26:28 AM	G49276
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/21/2018 9:06:46 AM	36639
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	2/21/2018 9:06:46 AM	36639
Surr: DNOP	100	70-130		%Rec	1	2/21/2018 9:06:46 AM	36639
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.019		mg/Kg	1	2/21/2018 10:26:28 AM	L49276
Toluene	ND	0.038		mg/Kg	1	2/21/2018 10:26:28 AM	L49276
Ethylbenzene	ND	0.038		mg/Kg	1	2/21/2018 10:26:28 AM	L49276
Xylenes, Total	0.093	0.076		mg/Kg	1	2/21/2018 10:26:28 AM	L49276
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	2/21/2018 10:26:28 AM	L49276
Surr: Toluene-d8	94.3	70-130		%Rec	1	2/21/2018 10:26:28 AM	L49276

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

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

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1802B25  
 22-Feb-18

**Client:** Williams Field Services  
**Project:** Primo 1 Resample

Sample ID	<b>MB-36641</b>	SampType:	<b>mblk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36641</b>	RunNo:	<b>49283</b>					
Prep Date:	<b>2/21/2018</b>	Analysis Date:	<b>2/21/2018</b>	SeqNo:	<b>1591746</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-36641</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36641</b>	RunNo:	<b>49283</b>					
Prep Date:	<b>2/21/2018</b>	Analysis Date:	<b>2/21/2018</b>	SeqNo:	<b>1591747</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 1802B25  
 22-Feb-18

**Client:** Williams Field Services  
**Project:** Primo I Resample

Sample ID	<b>LCS-36639</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>				
Client ID:	<b>LCSS</b>		Batch ID:	<b>36639</b>		RunNo:	<b>49268</b>				
Prep Date:	<b>2/21/2018</b>		Analysis Date:	<b>2/21/2018</b>		SeqNo:	<b>1589630</b>		Units: <b>mg/Kg</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10	50.00	0	92.7	70	130				
Surr: DNOP	4.5		5.000		90.9	70	130				

Sample ID	<b>MB-36639</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>				
Client ID:	<b>PBS</b>		Batch ID:	<b>36639</b>		RunNo:	<b>49268</b>				
Prep Date:	<b>2/21/2018</b>		Analysis Date:	<b>2/21/2018</b>		SeqNo:	<b>1589631</b>		Units: <b>mg/Kg</b>		
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	9.6		10.00		96.3	70	130				

Sample ID	<b>1802B25-001AMS</b>		SampType:	<b>MS</b>		TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>				
Client ID:	<b>Primo 1 NE-02 Wall</b>		Batch ID:	<b>36639</b>		RunNo:	<b>49268</b>				
Prep Date:	<b>2/21/2018</b>		Analysis Date:	<b>2/21/2018</b>		SeqNo:	<b>1590082</b>		Units: <b>mg/Kg</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	51	10	50.15	3.431	94.5	55.8	125				
Surr: DNOP	4.7		5.015		94.4	70	130				

Sample ID	<b>1802B25-001AMSD</b>		SampType:	<b>MSD</b>		TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>				
Client ID:	<b>Primo 1 NE-02 Wall</b>		Batch ID:	<b>36639</b>		RunNo:	<b>49268</b>				
Prep Date:	<b>2/21/2018</b>		Analysis Date:	<b>2/21/2018</b>		SeqNo:	<b>1590083</b>		Units: <b>mg/Kg</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	50	10	49.75	3.431	94.4	55.8	125	0.807	20		
Surr: DNOP	4.7		4.975		94.8	70	130	0	0		

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 1802B25

22-Feb-18

**Client:** Williams Field Services

**Project:** Primo 1 Resample

Sample ID	<b>100ng lcs</b>	SampType:	<b>LCS4</b>	TestCode:	<b>EPA Method 8260B: Volatiles Short List</b>					
Client ID:	<b>BatchQC</b>	Batch ID:	<b>L49276</b>	RunNo:	<b>49276</b>					
Prep Date:		Analysis Date:	<b>2/21/2018</b>	SeqNo:	<b>1590036</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.6	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			

Sample ID	<b>rb</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8260B: Volatiles Short List</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>L49276</b>	RunNo:	<b>49276</b>					
Prep Date:		Analysis Date:	<b>2/21/2018</b>	SeqNo:	<b>1590039</b>	Units:	<b>mg/Kg</b>			
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	0.55		0.5000		109	70	130			
Surr: Toluene-d8	0.48		0.5000		96.6	70	130			

Sample ID	<b>1802b25-001amsd</b>	SampType:	<b>MSD4</b>	TestCode:	<b>EPA Method 8260B: Volatiles Short List</b>					
Client ID:	<b>Primo 1 NE-02 Wall</b>	Batch ID:	<b>L49276</b>	RunNo:	<b>49276</b>					
Prep Date:		Analysis Date:	<b>2/21/2018</b>	SeqNo:	<b>1590953</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.019	0.7622	0.007531	92.1	80	120	0	0	
Toluene	0.75	0.038	0.7622	0.03289	93.5	80	120	0	0	
Ethylbenzene	0.71	0.038	0.7622	0.01262	91.9	80	120	0	0	
Xylenes, Total	2.1	0.076	2.287	0.09265	89.0	80	120	0	0	
Surr: 4-Bromofluorobenzene	0.37		0.3811		96.7	70	130	0	0	
Surr: Toluene-d8	0.36		0.3811		94.6	70	130	0	0	

Sample ID	<b>1802b25-001ams</b>	SampType:	<b>MS4</b>	TestCode:	<b>EPA Method 8260B: Volatiles Short List</b>					
Client ID:	<b>Primo 1 NE-02 Wall</b>	Batch ID:	<b>L49276</b>	RunNo:	<b>49276</b>					
Prep Date:		Analysis Date:	<b>2/21/2018</b>	SeqNo:	<b>1591072</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0.007531	98.4	80	120			
Toluene	1.0	0.050	1.000	0.03289	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0.01262	99.7	80	120			
Xylenes, Total	3.1	0.10	3.000	0.09265	100	80	120			

**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#: 1802B25  
 22-Feb-18

**Client:** Williams Field Services  
**Project:** Primo 1 Resample

Sample ID	1802b25-001ams	SampType:	MS4	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	Primo 1 NE-02 Wall	Batch ID:	L49276	RunNo:	49276					
Prep Date:		Analysis Date:	2/21/2018	SeqNo:	1591072	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130			
Surr: Toluene-d8	0.49		0.5000		98.3	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
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- 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#: 1802B25

22-Feb-18

**Client:** Williams Field Services

**Project:** Primo 1 Resample

Sample ID	<b>1802b25-001ams</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>Primo 1 NE-02 Wall</b>	Batch ID:	<b>G49276</b>	RunNo:	<b>49276</b>					
Prep Date:		Analysis Date:	<b>2/21/2018</b>	SeqNo:	<b>1590022</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	3.8	19.06	1.631	119	64.7	142			
Surr: BFB	420		381.1		110	70	130			

Sample ID	<b>rb</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>G49276</b>	RunNo:	<b>49276</b>					
Prep Date:		Analysis Date:	<b>2/21/2018</b>	SeqNo:	<b>1590023</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	580		500.0		117	70	130			

Sample ID	<b>1802b25-001amsd</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>Primo 1 NE-02 Wall</b>	Batch ID:	<b>G49276</b>	RunNo:	<b>49276</b>					
Prep Date:		Analysis Date:	<b>2/21/2018</b>	SeqNo:	<b>1590900</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	3.8	19.06	1.631	113	64.7	142	4.64	20	
Surr: BFB	410		381.1		108	70	130	0	0	

**Qualifiers:**

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

Work Order Number: 1802B25

RcptNo: 1

Received By: Anne Thorne

2/21/2018 7:30:00 AM

*Anne Thorne*

Completed By: Anne Thorne

2/21/2018 7:35:03 AM

*Anne Thorne*

Reviewed By: *ML 2/21/18*

### 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?  
 (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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

Form C-141  
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>San Juan Dakota Pig Receiver</b>	Facility Type: <b>Pig Receiver</b>

Surface Owner: <b>BLM</b>	Mineral Owner	BLM Project No.
---------------------------	---------------	-----------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>I</b>	<b>II</b>	<b>28N</b>	<b>11W</b>					<b>San Juan</b>

Latitude **36.670953** Longitude **-107.966490**

**NATURE OF RELEASE**

Type of Release: <b>Natural Gas and Produced Water</b>	Volume of Release: <b>46 MCF 16 bbl Produced Water</b>	Volume Recovered: <b>0 MCF 8 bbl Produced Water</b>
Source of Release: <b>Broken site glass</b>	Date and Hour of Occurrence: <b>11/19/2017 at 10:00 AM</b>	Date and Hour of Discovery: <b>11/19/2017 at 10:00 AM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>NA</b>	
By Whom? <b>NA</b>	Date and Hour: <b>NA</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	

If a Watercourse was Impacted, Describe Fully.\*  
**NA**

**NMOCD**

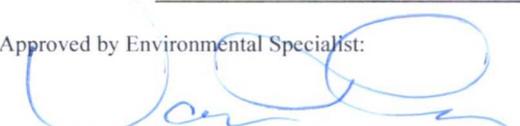
Describe Cause of Problem and Remedial Action Taken.\*  
**Site glass on the pig receiver scrubber broken. Site glass has been replaced.**

**MAR 09 2018**

Describe Area Affected and Cleanup Action Taken.\*  
**16 bbls of produced water were released due to a broken site glass. 8 bbls were caught by containment and 8 bbls were released to the ground. Remediation has been completed. Please see attached confirmation sample results and Remediation Excavation and Sampling Form.**

**DISTRICT III**

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kijun Hong</b>	Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>	Approval Date: <b>3/12/2018</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>3/5/2018</b> Phone: <b>(505) 632-4475</b>		

\* Attach Additional Sheets If Necessary

**NVF 1733 856387**

**11**

## Remediation Excavation and Sampling Form

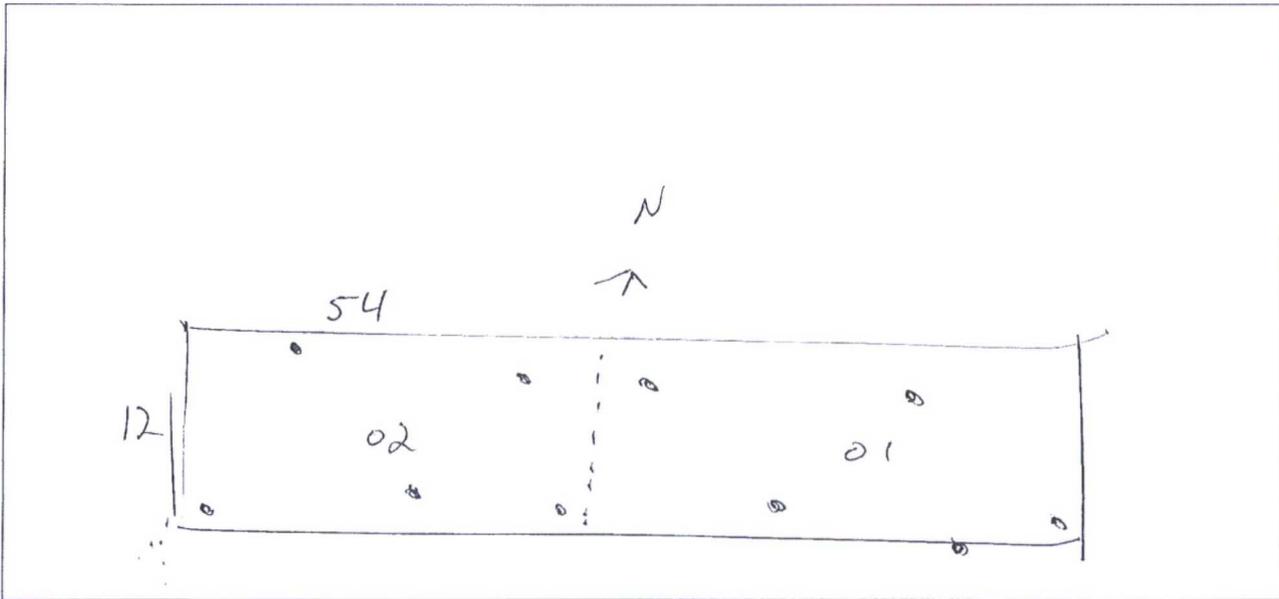
Site Name SJ Dakota Receiver

**Excavation Dimensions (feet)**

54 Length 12 Width surface Depth

**Excavation Diagram and Sample Locations**

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



**Sample Information**

OCD Witness Sampling Yes or No

Agency(s) Representative(s) Corey Smith gave me permission to sample

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
SJ Dakota Receiver Road 01	2-1-18	composite	surface	
SJ Dakota Receiver Road 02	2-1-18	composite	surface	



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

February 15, 2018

Kijun Hong  
Williams Field Services  
1755 Arroyo Dr.,  
Bloomfield, NM 87413  
TEL: (505) 632-4442  
FAX

RE: SJ Dakota Receiver

OrderNo.: 1802087

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/2/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Analytical Report

Lab Order 1802087

Date Reported: 2/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: 01 Road SJ Dakota Receiver

Project: SJ Dakota Receiver

Collection Date: 2/1/2018 10:00:00 AM

Lab ID: 1802087-001

Matrix: SOIL

Received Date: 2/2/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							
Chloride	34	30		mg/Kg	20	2/13/2018 12:47:06 PM	36495
Analyst: MRA							
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/6/2018 8:21:17 PM	36339
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/6/2018 8:21:17 PM	36339
Surr: DNOP	95.2	70-130		%Rec	1	2/6/2018 8:21:17 PM	36339
Analyst: TOM							
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/6/2018 6:21:41 PM	36352
Surr: BFB	93.1	15-316		%Rec	1	2/6/2018 6:21:41 PM	36352
Analyst: NSB							
<b>EPA METHOD 8021B: VOLATILES</b>							
Benzene	ND	0.025		mg/Kg	1	2/6/2018 6:21:41 PM	36352
Toluene	ND	0.049		mg/Kg	1	2/6/2018 6:21:41 PM	36352
Ethylbenzene	ND	0.049		mg/Kg	1	2/6/2018 6:21:41 PM	36352
Xylenes, Total	ND	0.098		mg/Kg	1	2/6/2018 6:21:41 PM	36352
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	2/6/2018 6:21:41 PM	36352
Analyst: NSB							

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#: 1802087  
 15-Feb-18

**Client:** Williams Field Services  
**Project:** SJ Dakota Receiver

Sample ID	<b>MB-36495</b>	SampType:	<b>mbk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36495</b>	RunNo:	<b>49085</b>					
Prep Date:	<b>2/13/2018</b>	Analysis Date:	<b>2/13/2018</b>	SeqNo:	<b>1583564</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-36495</b>	SampType:	<b>Ics</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36495</b>	RunNo:	<b>49085</b>					
Prep Date:	<b>2/13/2018</b>	Analysis Date:	<b>2/13/2018</b>	SeqNo:	<b>1583565</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	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#: 1802087  
 15-Feb-18

**Client:** Williams Field Services  
**Project:** SJ Dakota Receiver

Sample ID	<b>LCS-36339</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36339</b>	RunNo:	<b>48920</b>					
Prep Date:	<b>2/5/2018</b>	Analysis Date:	<b>2/6/2018</b>	SeqNo:	<b>1574284</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.3	70	130			
Surr: DNOP	4.2		5.000		84.7	70	130			

Sample ID	<b>MB-36339</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36339</b>	RunNo:	<b>48920</b>					
Prep Date:	<b>2/5/2018</b>	Analysis Date:	<b>2/6/2018</b>	SeqNo:	<b>1574285</b>	Units:	<b>mg/Kg</b>			
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	9.0		10.00		89.9	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 1802087  
 15-Feb-18

**Client:** Williams Field Services  
**Project:** SJ Dakota Receiver

Sample ID <b>MB-36352</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>36352</b>		RunNo: <b>48930</b>							
Prep Date: <b>2/5/2018</b>	Analysis Date: <b>2/6/2018</b>		SeqNo: <b>1574768</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	316			

Sample ID <b>LCS-36352</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>36352</b>		RunNo: <b>48930</b>							
Prep Date: <b>2/5/2018</b>	Analysis Date: <b>2/6/2018</b>		SeqNo: <b>1574769</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	75.9	131			
Surr: BFB	1200		1000		119	15	316			

**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#: 1802087

15-Feb-18

**Client:** Williams Field Services

**Project:** SJ Dakota Receiver

Sample ID	<b>MB-36352</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36352</b>	RunNo:	<b>48930</b>					
Prep Date:	<b>2/5/2018</b>	Analysis Date:	<b>2/6/2018</b>	SeqNo:	<b>1574788</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	<b>LCS-36352</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36352</b>	RunNo:	<b>48930</b>					
Prep Date:	<b>2/5/2018</b>	Analysis Date:	<b>2/6/2018</b>	SeqNo:	<b>1574789</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	77.3	128			
Toluene	1.1	0.050	1.000	0	106	79.2	125			
Ethylbenzene	1.1	0.050	1.000	0	106	80.7	127			
Xylenes, Total	3.2	0.10	3.000	0	108	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

**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  
 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: WILLIAMS FIELD SERVI

Work Order Number: 1802087

RcptNo: 1

Received By: Anne Thorne 2/2/2018 7:50:00 AM

*Anne Thorne*

Completed By: Anne Thorne 2/2/2018 8:34:34 AM

*Anne Thorne*

Reviewed By: ENM 2/2/18

Labeled By DDS

### 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: _____ (<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 °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.6	Good	Yes			



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

Form C-141  
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>Kutz Government 7</b>	Facility Type: <b>Pipeline</b>
Surface Owner: <b>State of NM</b>	Mineral Owner
	BLM Project No.

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>N</b>	<b>3</b>	<b>27N</b>	<b>10W</b>					<b>San Juan</b>

Latitude **36.598556** Longitude **-107.887000**

#### NATURE OF RELEASE

Type of Release: <b>Natural Gas</b>	Volume of Release: <b>1,344.3MCF Natural Gas</b> <b>10 BBL Condensate/PW mixture</b>	Volume Recovered: <b>0 MCF</b>
Source of Release: <b>Pipeline</b>	Date and Hour of Occurrence: <b>1/26/2018 @ 2:30 PM</b>	Date and Hour of Discovery: <b>1/26/2018 @ 3:30 PM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Vanessa Fields</b>	
By Whom? <b>Kijun Hong</b>	Date and Hour: <b>1/26/2018@4:36PM</b>	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>Approximately 1 BBL of produced water/condensate mix impacted a dry wash to the south of the location.</b>	

If a Watercourse was Impacted, Describe Fully.\*

**Approximately 10 BBLs of produced water/condensate mix was released from the pipeline failure and ran about 180ft down the lease road to reached the dry wash to the south and impacted about 60ft of the wash. Approximately 1 BBL of produced water/condensate mix impacted a dry wash.**

Describe Cause of Problem and Remedial Action Taken.\*

**Failure of the pipeline resulted in a gas/liquids release which ran down the lease road and reached/impacted a dry wash to the south of the location. Upon discovery, the well was shut in, and the upstream meter valve and downstream tie in valve were closed to isolate the failed section of pipeline. A crew was dispatched the next morning to begin remediation.**

Describe Area Affected and Cleanup Action Taken.\*

**Initial removal and disposal of contaminated soil concluded on 1/30/2018. The confirmation sample results showed two areas of exceedance (04 Composite and Bottom Composite). It should be noted that the Wash Composite came back all Non-Detect.**

**The second remediation effort concluded on 2/6/2018. The confirmation sampling results showed a TPH concentration of 153 mg/kg for the Side 02 3'.9 to 8' sample. Morgan Killion spoke with Vanessa Field who granted permission to close the excavation and deemed the remediation satisfactory.**

**Please see attached Remediation Excavation and Sampling Forms and Confirmation Sample Results for further details.**

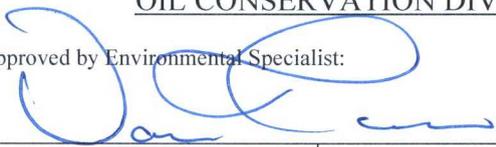
NMOCD

MAR 14 2018

DISTRICT III

30

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: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: <b>Kijun Hong</b>		Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>		Approval Date: <b>3/20/18</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>		Conditions of Approval:	
Date: <b>3/9/2018</b>	Phone: <b>(505) 632-4475</b>	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

NVF-1805335187

## Remediation Excavation and Sampling Form

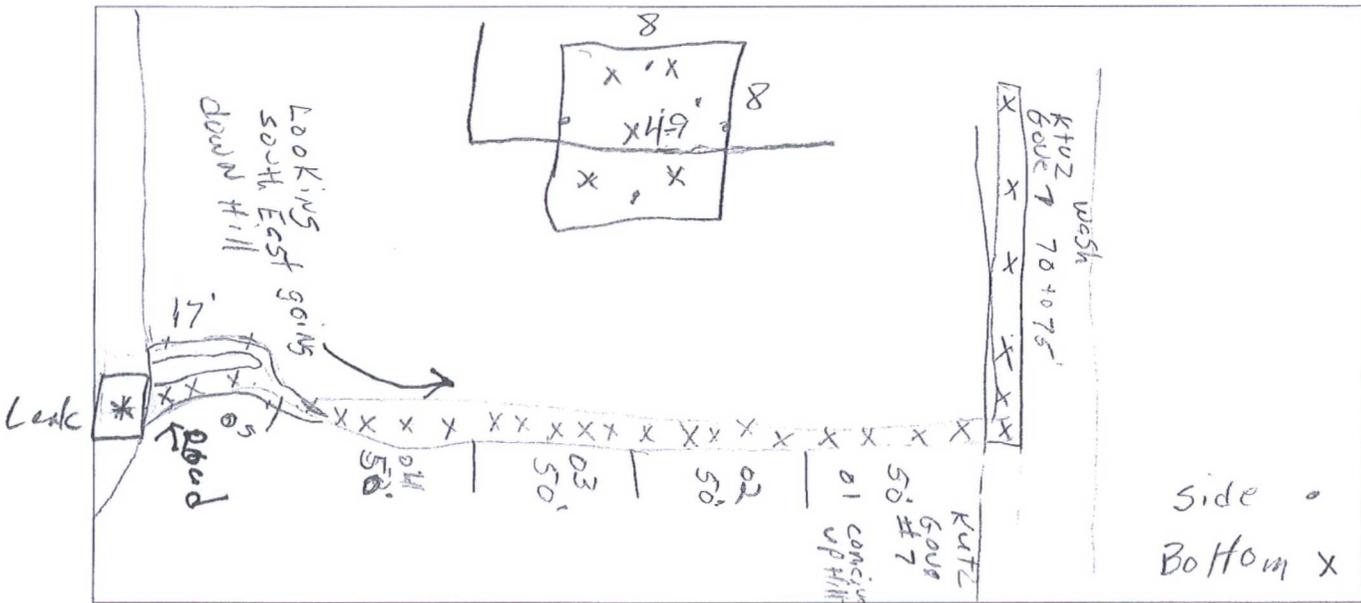
Site Name Kutz Gov. # 7

**Excavation Dimensions (feet)**

275' Length 1' to 2' Width 2' to 3' Depth

**Excavation Diagram and Sample Locations**

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



**Sample Information**

OCD Witness Sampling Yes or No

Agency(s) Representative(s) \_\_\_\_\_

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
Kutz Gov # 7 Wash	1-30-18	Composite	Floor	63.90
Kutz Gov # 7 01	1-30-18	Composite	Floor	96.50
Kutz Gov # 7 02	1-30-18	Composite	Floor	102.10
Kutz Gov # 7 03	1-30-18	Composite	Floor	155.85
Kutz Gov # 7 04	1-30-18	Composite	Floor	468.05
Kutz Gov # 7 Road	1-30-18	Composite	Floor	16.30
Kutz Gov # 7 Side wall	1-30-18	Composite	Sidewall	1892
Kutz Gov # 7 Bottom	1-30-18	Composite	Floor	2000



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

February 05, 2018

Kijun Hong  
Williams Field Services  
188 Co. Rd 4900  
Bloomfield, NM 87413  
TEL:  
FAX

RE: Kutz Gov 7

OrderNo.: 1801D91

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 8 sample(s) on 1/31/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services  
**Project:** Kutz Gov 7  
**Lab ID:** 1801D91-001

**Matrix:** SOIL

**Client Sample ID:** Wash Composite  
**Collection Date:** 1/30/2018 12:00:00 PM  
**Received Date:** 1/31/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	2/2/2018 4:43:38 AM	36298
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/1/2018 10:38:26 AM	36289
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	2/1/2018 10:38:26 AM	36289
Surr: DNOP	89.1	70-130		%Rec	1	2/1/2018 10:38:26 AM	36289
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2018 5:33:37 PM	36284
Surr: BFB	96.5	15-316		%Rec	1	2/1/2018 5:33:37 PM	36284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/1/2018 5:33:37 PM	36284
Toluene	ND	0.048		mg/Kg	1	2/1/2018 5:33:37 PM	36284
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2018 5:33:37 PM	36284
Xylenes, Total	ND	0.096		mg/Kg	1	2/1/2018 5:33:37 PM	36284
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	2/1/2018 5:33:37 PM	36284

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

<b>Qualifiers:</b>	<ul style="list-style-type: none"> <li>* Value exceeds Maximum Contaminant Level.</li> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quantitative Limit</li> <li>S % Recovery outside of range due to dilution or matrix</li> </ul>	<ul style="list-style-type: none"> <li>B Analyte detected in the associated Method Blank</li> <li>E Value above quantitation range</li> <li>J Analyte detected below quantitation limits</li> <li>P Sample pH Not In Range</li> <li>RL Reporting Detection Limit</li> <li>W Sample container temperature is out of limit as specified</li> </ul>
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# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1801D91

Date Reported: 2/5/2018

CLIENT: Williams Field Services

Client Sample ID: 01 Composite

Project: Kutz Gov 7

Collection Date: 1/30/2018 12:10:00 PM

Lab ID: 1801D91-002

Matrix: SOIL

Received Date: 1/31/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	2/2/2018 4:56:03 AM	36298
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/1/2018 11:06:14 AM	36289
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/1/2018 11:06:14 AM	36289
Surr: DNOP	96.5	70-130		%Rec	1	2/1/2018 11:06:14 AM	36289
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2018 6:43:28 PM	36284
Surr: BFB	93.1	15-316		%Rec	1	2/1/2018 6:43:28 PM	36284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/1/2018 6:43:28 PM	36284
Toluene	ND	0.048		mg/Kg	1	2/1/2018 6:43:28 PM	36284
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2018 6:43:28 PM	36284
Xylenes, Total	ND	0.096		mg/Kg	1	2/1/2018 6:43:28 PM	36284
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	2/1/2018 6:43:28 PM	36284

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.

CLIENT: Williams Field Services  
 Project: Kutz Gov 7  
 Lab ID: 1801D91-003

Matrix: SOIL

Client Sample ID: 02 Composite  
 Collection Date: 1/30/2018 12:20:00 PM  
 Received Date: 1/31/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	2/2/2018 5:08:28 AM	36298
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/1/2018 11:34:00 AM	36289
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/1/2018 11:34:00 AM	36289
Surr: DNOP	90.5	70-130		%Rec	1	2/1/2018 11:34:00 AM	36289
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2018 7:06:46 PM	36284
Surr: BFB	103	15-316		%Rec	1	2/1/2018 7:06:46 PM	36284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/1/2018 7:06:46 PM	36284
Toluene	ND	0.048		mg/Kg	1	2/1/2018 7:06:46 PM	36284
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2018 7:06:46 PM	36284
Xylenes, Total	ND	0.097		mg/Kg	1	2/1/2018 7:06:46 PM	36284
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	2/1/2018 7:06:46 PM	36284

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

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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services

**Client Sample ID:** 03 Composite

**Project:** Kutz Gov 7

**Collection Date:** 1/30/2018 12:25:00 PM

**Lab ID:** 1801D91-004

**Matrix:** SOIL

**Received Date:** 1/31/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	2/2/2018 5:20:52 AM	36298
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/1/2018 12:01:42 PM	36289
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/1/2018 12:01:42 PM	36289
Surr: DNOP	93.1	70-130		%Rec	1	2/1/2018 12:01:42 PM	36289
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2018 7:30:08 PM	36284
Surr: BFB	114	15-316		%Rec	1	2/1/2018 7:30:08 PM	36284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/1/2018 7:30:08 PM	36284
Toluene	ND	0.048		mg/Kg	1	2/1/2018 7:30:08 PM	36284
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2018 7:30:08 PM	36284
Xylenes, Total	0.19	0.096		mg/Kg	1	2/1/2018 7:30:08 PM	36284
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	2/1/2018 7:30:08 PM	36284

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

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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services

**Client Sample ID:** 04 Composite

**Project:** Kutz Gov 7

**Collection Date:** 1/30/2018 12:30:00 PM

**Lab ID:** 1801D91-005

**Matrix:** SOIL

**Received Date:** 1/31/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	2/1/2018 5:05:38 PM	36320
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	24	9.3		mg/Kg	1	2/1/2018 12:29:34 PM	36289
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/1/2018 12:29:34 PM	36289
Surr: DNOP	94.8	70-130		%Rec	1	2/1/2018 12:29:34 PM	36289
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	250	24		mg/Kg	5	2/2/2018 10:51:18 AM	36284
Surr: BFB	398	15-316	S	%Rec	5	2/2/2018 10:51:18 AM	36284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.12		mg/Kg	5	2/2/2018 10:51:18 AM	36284
Toluene	1.0	0.24		mg/Kg	5	2/2/2018 10:51:18 AM	36284
Ethylbenzene	1.3	0.24		mg/Kg	5	2/2/2018 10:51:18 AM	36284
Xylenes, Total	13	0.48		mg/Kg	5	2/2/2018 10:51:18 AM	36284
Surr: 4-Bromofluorobenzene	118	80-120		%Rec	5	2/2/2018 10:51:18 AM	36284

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

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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services

**Client Sample ID:** Road Composite

**Project:** Kutz Gov 7

**Collection Date:** 1/30/2018 1:00:00 PM

**Lab ID:** 1801D91-006

**Matrix:** SOIL

**Received Date:** 1/31/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	2/1/2018 5:18:03 PM	36320
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/1/2018 12:57:44 PM	36289
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/1/2018 12:57:44 PM	36289
Surr: DNOP	103	70-130		%Rec	1	2/1/2018 12:57:44 PM	36289
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/1/2018 8:17:12 PM	36284
Surr: BFB	96.6	15-316		%Rec	1	2/1/2018 8:17:12 PM	36284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/1/2018 8:17:12 PM	36284
Toluene	0.069	0.049		mg/Kg	1	2/1/2018 8:17:12 PM	36284
Ethylbenzene	ND	0.049		mg/Kg	1	2/1/2018 8:17:12 PM	36284
Xylenes, Total	0.23	0.098		mg/Kg	1	2/1/2018 8:17:12 PM	36284
Surr: 4-Bromofluorobenzene	95.7	80-120		%Rec	1	2/1/2018 8:17:12 PM	36284

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services  
 Project: Kutz Gov 7  
 Lab ID: 1801D91-007

Matrix: SOIL

Client Sample ID: Side Wall Composite  
 Collection Date: 1/30/2018 1:15:00 PM  
 Received Date: 1/31/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	2/1/2018 5:30:28 PM	36320
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/1/2018 1:25:43 PM	36289
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/1/2018 1:25:43 PM	36289
Surr: DNOP	98.4	70-130		%Rec	1	2/1/2018 1:25:43 PM	36289
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	25	4.8		mg/Kg	1	2/2/2018 11:14:40 AM	36284
Surr: BFB	311	15-316		%Rec	1	2/2/2018 11:14:40 AM	36284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/2/2018 11:14:40 AM	36284
Toluene	ND	0.048		mg/Kg	1	2/2/2018 11:14:40 AM	36284
Ethylbenzene	0.057	0.048		mg/Kg	1	2/2/2018 11:14:40 AM	36284
Xylenes, Total	0.38	0.096		mg/Kg	1	2/2/2018 11:14:40 AM	36284
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	2/2/2018 11:14:40 AM	36284

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.**

**CLIENT:** Williams Field Services

**Client Sample ID:** Bottom Composite

**Project:** Kutz Gov 7

**Collection Date:** 1/30/2018 1:20:00 PM

**Lab ID:** 1801D91-008

**Matrix:** SOIL

**Received Date:** 1/31/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	2/1/2018 5:42:53 PM	36320
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	460	8.7		mg/Kg	1	2/1/2018 1:53:18 PM	36289
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/1/2018 1:53:18 PM	36289
Surr: DNOP	91.1	70-130		%Rec	1	2/1/2018 1:53:18 PM	36289
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	2200	99		mg/Kg	20	2/1/2018 9:04:13 PM	36284
Surr: BFB	549	15-316	S	%Rec	20	2/1/2018 9:04:13 PM	36284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	1.5	0.49		mg/Kg	20	2/1/2018 9:04:13 PM	36284
Toluene	31	0.99		mg/Kg	20	2/1/2018 9:04:13 PM	36284
Ethylbenzene	11	0.99		mg/Kg	20	2/1/2018 9:04:13 PM	36284
Xylenes, Total	95	2.0		mg/Kg	20	2/1/2018 9:04:13 PM	36284
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	20	2/1/2018 9:04:13 PM	36284

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1801D91

05-Feb-18

Client: Williams Field Services

Project: Kutz Gov 7

Sample ID	<b>MB-36298</b>	SampType:	<b>mblk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36298</b>	RunNo:	<b>48838</b>					
Prep Date:	<b>2/1/2018</b>	Analysis Date:	<b>2/1/2018</b>	SeqNo:	<b>1571779</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-36298</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36298</b>	RunNo:	<b>48838</b>					
Prep Date:	<b>2/1/2018</b>	Analysis Date:	<b>2/1/2018</b>	SeqNo:	<b>1571780</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Sample ID	<b>MB-36320</b>	SampType:	<b>mblk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36320</b>	RunNo:	<b>48858</b>					
Prep Date:	<b>2/1/2018</b>	Analysis Date:	<b>2/1/2018</b>	SeqNo:	<b>1572349</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-36320</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36320</b>	RunNo:	<b>48858</b>					
Prep Date:	<b>2/1/2018</b>	Analysis Date:	<b>2/1/2018</b>	SeqNo:	<b>1572350</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.2	90	110			

### 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#: 1801D91

05-Feb-18

Client: Williams Field Services

Project: Kutz Gov 7

Sample ID	<b>LCS-36289</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36289</b>	RunNo:	<b>48828</b>					
Prep Date:	<b>1/31/2018</b>	Analysis Date:	<b>2/1/2018</b>	SeqNo:	<b>1571276</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.1	70	130			
Surr: DNOP	4.6		5.000		92.7	70	130			

Sample ID	<b>MB-36289</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36289</b>	RunNo:	<b>48828</b>					
Prep Date:	<b>1/31/2018</b>	Analysis Date:	<b>2/1/2018</b>	SeqNo:	<b>1571277</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.1	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#: 1801D91

05-Feb-18

Client: Williams Field Services

Project: Kutz Gov 7

Sample ID	1801D91-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Wash Composite	Batch ID:	36284	RunNo:	48855					
Prep Date:	1/31/2018	Analysis Date:	2/1/2018	SeqNo:	1572256	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.30	1.124	108	77.8	128			
Surr: BFB	1000		971.8		107	15	316			

Sample ID	1801D91-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Wash Composite	Batch ID:	36284	RunNo:	48855					
Prep Date:	1/31/2018	Analysis Date:	2/1/2018	SeqNo:	1572257	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.7	23.56	1.124	108	77.8	128	3.03	20	
Surr: BFB	1000		942.5		108	15	316	0	0	

Sample ID	LCS-36284	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	36284	RunNo:	48855					
Prep Date:	1/31/2018	Analysis Date:	2/1/2018	SeqNo:	1572275	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	75.9	131			
Surr: BFB	1100		1000		107	15	316			

Sample ID	MB-36284	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	36284	RunNo:	48855					
Prep Date:	1/31/2018	Analysis Date:	2/1/2018	SeqNo:	1572276	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	900		1000		89.6	15	316			

### 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#: 1801D91  
05-Feb-18

**Client:** Williams Field Services  
**Project:** Kutz Gov 7

Sample ID	<b>LCS-36284</b>	SampType:	LCS	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36284</b>	RunNo:	<b>48855</b>					
Prep Date:	<b>1/31/2018</b>	Analysis Date:	<b>2/1/2018</b>	SeqNo:	<b>1572312</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	77.3	128			
Toluene	1.0	0.050	1.000	0	105	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	104	80.7	127			
Xylenes, Total	3.2	0.10	3.000	0	107	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	<b>MB-36284</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36284</b>	RunNo:	<b>48855</b>					
Prep Date:	<b>1/31/2018</b>	Analysis Date:	<b>2/1/2018</b>	SeqNo:	<b>1572313</b>	Units:	<b>mg/Kg</b>			
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	0.95		1.000		94.7	80	120			

**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: WILLIAMS FIELD SERVI

Work Order Number: 1801D91

RcptNo: 1

Received By: Anne Thorne 1/31/2018 7:00:00 AM

*Anne Thorne*

Completed By: Anne Thorne 1/31/2018 8:53:54 AM

*Anne Thorne*

Reviewed By: *CT* 1/31/18

**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  # of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes  No  Adjusted? \_\_\_\_\_
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No  Checked by: \_\_\_\_\_  
(If no, notify customer for authorization.)

**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	1.0	Good	Yes			

# Chain-of-Custody Record

Turn-Around Time: 2-3-18

Client: WFS

Standard  Rush 3 days

Mailing Address: 1755 ARROYO DR.

Project Name:

Bloom Field NM 87413

KUTZ GOV. #7

Phone #: 505-

Project #:

email or Fax#: KIJUN.HONG@williams.com

Project Manager:

QA/QC Package:

Standard  Level 4 (Full Validation)

KIJUN HONG

Accreditation

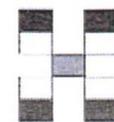
NELAP  Other \_\_\_\_\_

Sampler: Morgan Killian

EDD (Type) \_\_\_\_\_

On Ice:  Yes  No

Sample Temperature: 10



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	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, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)	
1/30/18	1200	soil	Wash composite	1-402	Cool	1801D91 201	X	X									X		
1/30/18	1210	soil	01 composite	1-402	↓	202	X	X									X		
1/30/18	1220	soil	02 composite	1-402		203	X	X										X	
1/30/18	1225	soil	03 composite	1-402		204	X	X										X	
1/30/18	1230	soil	04 composite	1-402		205	X	X										X	
1/30/18	1:00	soil	Road composite	1-402		206	X	X										X	
1/30/18	1:15	soil	sidewall composite	1-402		207	X	X										X	
1/31/18	1:20	soil	Bottom composite	1-402		208	X	X										X	
1/31/18																			

Date: 1/30/18 Time: 1625 Relinquished by: Morgan Killian

Received by: Christa Walt Date: 1/30/18 Time: 1625

Remarks:

Date: 1/30/18 Time: 1844 Relinquished by: Christa Walt

Received by: Anna Date: 01/31/18 Time: 0700

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

## Remediation Excavation and Sampling Form

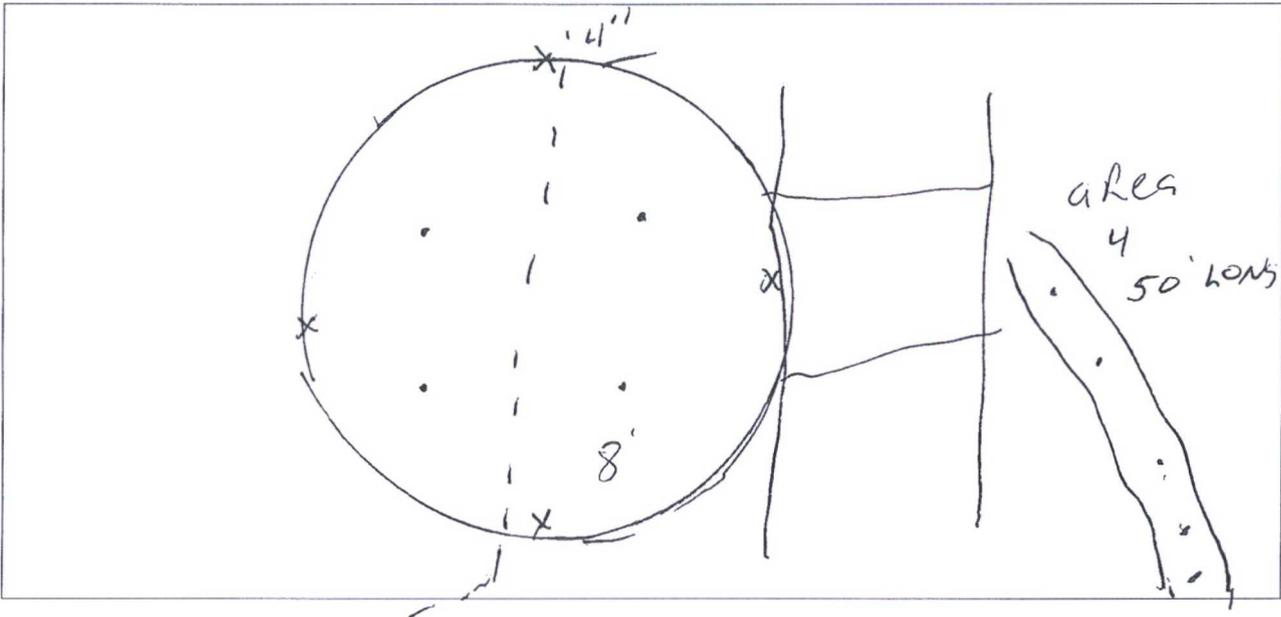
Site Name Kutz Gov #7

**Excavation Dimensions (feet)**

8' Length 8' Width 8' Depth

**Excavation Diagram and Sample Locations**

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



**Sample Information**

OCD Witness Sampling  Yes or No

Agency(s) Representative(s) Vanessa Fields

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
Kutz Gov #7 02 bottom	2-6-18	composite	Floor	25.85 PPM
Kutz Gov #7 02 sidewall	2-6-18	composite	sidewall	15.60 PPM
Kutz Gov #7 Area 4 02	2-6-18	composite	Floor	629-0



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

February 08, 2018

Kijun Hong  
Williams Field Services  
188 Co. Rd 4900  
Bloomfield, NM 87413  
TEL:  
FAX

RE: Kutz Gov 7

OrderNo.: 1802337

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/7/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services  
 Project: Kutz Gov 7  
 Lab ID: 1802337-001

Matrix: SOIL

Client Sample ID: Kutz Gov #7 Area-4-02 Comp  
 Collection Date: 2/6/2018 1:50:00 PM  
 Received Date: 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	30		mg/Kg	20	2/7/2018 11:44:30 AM	36396
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/7/2018 8:34:24 AM	36394
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/7/2018 8:34:24 AM	36394
Surr: DNOP	86.4	70-130		%Rec	1	2/7/2018 8:34:24 AM	36394
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/7/2018 9:39:31 AM	G48962
Surr: BFB	98.3	15-316		%Rec	1	2/7/2018 9:39:31 AM	G48962
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.020		mg/Kg	1	2/7/2018 9:39:31 AM	B48962
Toluene	ND	0.040		mg/Kg	1	2/7/2018 9:39:31 AM	B48962
Ethylbenzene	ND	0.040		mg/Kg	1	2/7/2018 9:39:31 AM	B48962
Xylenes, Total	ND	0.080		mg/Kg	1	2/7/2018 9:39:31 AM	B48962
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	2/7/2018 9:39:31 AM	B48962

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

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

Analytical Report

Lab Order 1802337

Date Reported: 2/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Kutz Gov #7 Bottom 02

Project: Kutz Gov 7

Collection Date: 2/6/2018 1:30:00 PM

Lab ID: 1802337-002

Matrix: SOIL

Received Date: 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	30		mg/Kg	20	2/7/2018 11:56:55 AM	36396
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/7/2018 9:01:46 AM	36394
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/7/2018 9:01:46 AM	36394
Surr: DNOP	91.0	70-130		%Rec	1	2/7/2018 9:01:46 AM	36394
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	2/7/2018 10:03:08 AM	G48962
Surr: BFB	101	15-316		%Rec	5	2/7/2018 10:03:08 AM	G48962
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.10		mg/Kg	5	2/7/2018 10:03:08 AM	B48962
Toluene	ND	0.21		mg/Kg	5	2/7/2018 10:03:08 AM	B48962
Ethylbenzene	ND	0.21		mg/Kg	5	2/7/2018 10:03:08 AM	B48962
Xylenes, Total	ND	0.42		mg/Kg	5	2/7/2018 10:03:08 AM	B48962
Surr: 4-Bromofluorobenzene	96.5	80-120		%Rec	5	2/7/2018 10:03:08 AM	B48962

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

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

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Kutz Gov #7 Side 02 3'.9 to 8'

Project: Kutz Gov 7

Collection Date: 2/6/2018 1:40:00 PM

Lab ID: 1802337-003

Matrix: SOIL

Received Date: 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	30		mg/Kg	20	2/7/2018 12:09:19 PM	36396
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	23	10		mg/Kg	1	2/7/2018 9:29:06 AM	36394
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/7/2018 9:29:06 AM	36394
Surr: DNOP	89.5	70-130		%Rec	1	2/7/2018 9:29:06 AM	36394
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	130	22		mg/Kg	5	2/7/2018 10:26:44 AM	G48962
Surr: BFB	342	15-316	S	%Rec	5	2/7/2018 10:26:44 AM	G48962
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.11		mg/Kg	5	2/7/2018 10:26:44 AM	B48962
Toluene	0.32	0.22		mg/Kg	5	2/7/2018 10:26:44 AM	B48962
Ethylbenzene	0.39	0.22		mg/Kg	5	2/7/2018 10:26:44 AM	B48962
Xylenes, Total	2.7	0.44		mg/Kg	5	2/7/2018 10:26:44 AM	B48962
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	5	2/7/2018 10:26:44 AM	B48962

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1802337

08-Feb-18

Client: Williams Field Services

Project: Kutz Gov 7

Sample ID	<b>MB-36396</b>	SampType:	<b>mblk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36396</b>	RunNo:	<b>48963</b>					
Prep Date:	<b>2/7/2018</b>	Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576512</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-36396</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36396</b>	RunNo:	<b>48963</b>					
Prep Date:	<b>2/7/2018</b>	Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576513</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

## 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#: 1802337

08-Feb-18

Client: Williams Field Services

Project: Kutz Gov 7

Sample ID	<b>MB-36394</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36394</b>	RunNo:	<b>48946</b>					
Prep Date:	<b>2/7/2018</b>	Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1574942</b>	Units:	<b>mg/Kg</b>			
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	9.6		10.00		95.8	70	130			

Sample ID	<b>LCS-36394</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36394</b>	RunNo:	<b>48946</b>					
Prep Date:	<b>2/7/2018</b>	Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1574943</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	70	130			
Surr: DNOP	5.1		5.000		103	70	130			

Sample ID	<b>1802337-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>Kutz Gov #7 Area-4-</b>	Batch ID:	<b>36394</b>	RunNo:	<b>48945</b>					
Prep Date:	<b>2/7/2018</b>	Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1575183</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.6	48.08	0	92.7	55.8	125			
Surr: DNOP	4.4		4.808		91.4	70	130			

Sample ID	<b>1802337-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>Kutz Gov #7 Area-4-</b>	Batch ID:	<b>36394</b>	RunNo:	<b>48945</b>					
Prep Date:	<b>2/7/2018</b>	Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1575184</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.8	48.97	0	95.9	55.8	125	5.17	20	
Surr: DNOP	4.4		4.897		90.5	70	130	0	0	

Sample ID	<b>MB-36390</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>36390</b>	RunNo:	<b>48946</b>					
Prep Date:	<b>2/6/2018</b>	Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576206</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.3	70	130			

Sample ID	<b>LCS-36390</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>36390</b>	RunNo:	<b>48946</b>					
Prep Date:	<b>2/6/2018</b>	Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576208</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

### 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#: 1802337

08-Feb-18

Client: Williams Field Services

Project: Kutz Gov 7

Sample ID	LCS-36390	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	36390	RunNo:	48946					
Prep Date:	2/6/2018	Analysis Date:	2/7/2018	SeqNo:	1576208	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	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#: 1802337

08-Feb-18

Client: Williams Field Services

Project: Kutz Gov 7

Sample ID	<b>RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>G48962</b>	RunNo:	<b>48962</b>					
Prep Date:		Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576174</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.9	15	316			

Sample ID	<b>2.5UG GRO LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>G48962</b>	RunNo:	<b>48962</b>					
Prep Date:		Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576175</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	75.9	131			
Surr: BFB	1100		1000		111	15	316			

Sample ID	<b>1802337-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>Kutz Gov #7 Area-4-</b>	Batch ID:	<b>G48962</b>	RunNo:	<b>48962</b>					
Prep Date:		Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576176</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.0	19.89	1.185	103	77.8	128			
Surr: BFB	940		795.5		118	15	316			

Sample ID	<b>1802337-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>Kutz Gov #7 Area-4-</b>	Batch ID:	<b>G48962</b>	RunNo:	<b>48962</b>					
Prep Date:		Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576177</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.0	19.89	1.185	104	77.8	128	1.53	20	
Surr: BFB	950		795.5		120	15	316	0	0	

### 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#: 1802337

08-Feb-18

Client: Williams Field Services

Project: Kutz Gov 7

Sample ID	<b>RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>B48962</b>	RunNo:	<b>48962</b>					
Prep Date:		Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576180</b>	Units:	<b>mg/Kg</b>			
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	0.99		1.000		99.4	80	120			

Sample ID	<b>100NG BTEX LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>B48962</b>	RunNo:	<b>48962</b>					
Prep Date:		Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576181</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.4	77.3	128			
Toluene	0.94	0.050	1.000	0	93.7	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	95.0	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.8	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	<b>1802337-002AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>Kutz Gov #7 Bottom</b>	Batch ID:	<b>B48962</b>	RunNo:	<b>48962</b>					
Prep Date:		Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576182</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.2	0.10	4.170	0.03974	99.7	80.9	132			
Toluene	4.0	0.21	4.170	0.06464	93.2	79.8	136			
Ethylbenzene	4.2	0.21	4.170	0.06539	98.7	79.4	140			
Xylenes, Total	13	0.42	12.51	0.3207	97.6	78.5	142			
Surr: 4-Bromofluorobenzene	4.4		4.170		106	80	120			

Sample ID	<b>1802337-002AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>Kutz Gov #7 Bottom</b>	Batch ID:	<b>B48962</b>	RunNo:	<b>48962</b>					
Prep Date:		Analysis Date:	<b>2/7/2018</b>	SeqNo:	<b>1576183</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.1	0.10	4.170	0.03974	98.5	80.9	132	1.24	20	
Toluene	3.9	0.21	4.170	0.06464	91.8	79.8	136	1.53	20	
Ethylbenzene	4.1	0.21	4.170	0.06539	97.0	79.4	140	1.70	20	
Xylenes, Total	12	0.42	12.51	0.3207	96.7	78.5	142	0.848	20	
Surr: 4-Bromofluorobenzene	4.5		4.170		107	80	120	0	0	

### 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  
 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: WILLIAMS FIELD SERVI

Work Order Number: 1802337

RcptNo: 1

Received By: Anne Thorne 2/7/2018 7:00:00 AM

*Anne Thorne*

Completed By: Anne Thorne 2/7/2018 7:22:36 AM

*Anne Thorne*

Reviewed By: *AT* 02/07/18

### 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?  
 (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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

# Chain-of-Custody Record

Client: WFS

Mailing Address: 1755 AROYO DR  
Bloomfield Nm 87413

Phone #: 505-632-4425

email or Fax#: KiJun.Hong@williams.com

QA/QC Package:  
 Standard  Level 4 (Full Validation)

Accreditation  
 NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time: 549-209

Standard  Rush 2-7-18

Project Name:  
Kut 2 Gov # 7

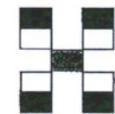
Project #:

Project Manager:  
KiJun Hong

Sampler: Morgan Killion

On Ice:  Yes  No

Sample Temperature: 10



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

BTEX + MIBE + IMB'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, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride	Air Bubbles (Y or N)
X	X	X									X	
X	X	X									X	
X	X	X									X	

Date	Time	Matrix	Sample Request ID	As of 02/10/18 Container Type and # MeshKts	Preservative Type Cool	HEAL No. 1802337
2/6/18	1:50	soil	Kut 2 Gov # 7 Area 4 - 02 Comp.	1-402	Cool	201
2/6/18	1:30	soil	Kut 2 Gov # 7 Bottom 02	1-402	L	202
2/6/18	1:46	soil	Kut 2 Gov # 7 side 02 3:9 to 8'	1-402	L	203

Date: 2/6/18 Time: 1437 Relinquished by: Morgan Killion

Date: 2/6/18 Time: 1834 Relinquished by: Jonathan Wheeler

Received by: Christy Whaley Date: 2/6/18 Time: 1437

Received by: Chen Date: 02/07/18 Time: 0700

Remarks:  
Per CW sample ID is  
Kut 2 Gov # 7 Area 4 - 02 Comp  
02/08/18

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

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

NMOCD  
MAR 26 2018  
Form C-141  
Revised August 8, 2011  
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>EPNG A1 Drip</b>	Facility Type: <b>Drip Location</b>

Surface Owner: <b>NM State Lands</b>	Mineral Owner	BLM Project No.
--------------------------------------	---------------	-----------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>G</b>	<b>32</b>	<b>32N</b>	<b>6W</b>					<b>San Juan</b>

Latitude **36.9378** Longitude **-107.4810**

#### NATURE OF RELEASE

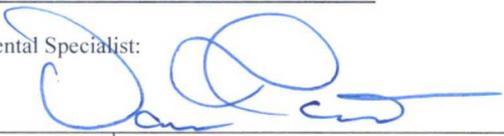
Type of Release: <b>Natural Gas</b>	Volume of Release: <b>388 MCF Natural Gas</b> <b>5 BBL PW mixture</b>	Volume Recovered: <b>0 MCF</b> <b>8 Yards Contaminated Soil</b>
Source of Release: <b>2" Isolation Valve</b>	Date and Hour of Occurrence: <b>3/6/2018 @ 9:10 AM</b>	Date and Hour of Discovery: <b>3/6/2018 @ 9:10 AM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>Vanessa Fields</b>	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	

If a Watercourse was Impacted, Describe Fully.\* **NA**

Describe Cause of Problem and Remedial Action Taken.\*  
**Failure of the 2" isolation valve due to freeze. Valve has been replaced.**

Describe Area Affected and Cleanup Action Taken.\*  
**Impacted soil has been removed and disposed. Confirmation samples were collected on 3/15/2018. Analysis results pending.**

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kijun Hong</b>	Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>	Approval Date: <b>3/30/18</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: <b>3/20/2018</b> Phone: <b>(505) 632-4475</b>		

\* Attach Additional Sheets If Necessary

NVF 1808952359

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 3/26/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_\_\_\_\_ has been assigned. **Please refer to this case number in all future correspondence.**

NVF 1808952359

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District III office in 30 days\_ on or before 4/26/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us

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

Form C-141  
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

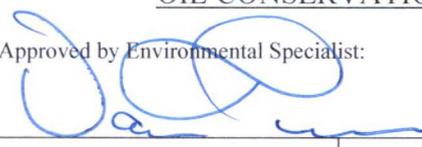
Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>EPNG A1 Drip</b>	Facility Type: <b>Drip Location</b>
Surface Owner: <b>NM State Lands</b>	Mineral Owner
	BLM Project No.

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>G</b>	<b>32</b>	<b>32N</b>	<b>6W</b>					<b>San Juan</b>

Latitude **36.9378** Longitude **-107.4810**

**NATURE OF RELEASE**

Type of Release: <b>Natural Gas</b>	Volume of Release: <b>388 MCF Natural Gas</b> <b>5 BBL PW mixture</b>	Volume Recovered: <b>0 MCF</b> <b>8 Yards Contaminated Soil</b>
Source of Release: <b>2" Isolation Valve</b>	Date and Hour of Occurrence: <b>3/6/2018 @ 9:10 AM</b>	Date and Hour of Discovery: <b>3/6/2018 @ 9:10 AM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	
If a Watercourse was Impacted, Describe Fully.* <b>NA</b>		
Describe Cause of Problem and Remedial Action Taken.* <b>Failure of the 2" isolation valve due to freeze. Valve has been replaced.</b>		
Describe Area Affected and Cleanup Action Taken.* <b>Impacted soil has been removed and disposed. Confirmation samples were collected on 3/15/2018. All sample results came back under standards. Please see the attached lab analysis report and Excavation and Sampling Form for further details.</b>		
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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kijun Hong</b>	Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>	Approval Date: <b>4/10/2018</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>4/3/2018</b> Phone: <b>(505) 632-4475</b>		

NMOCD  
 APR 06 2018  
 DISTRICT III

\* Attach Additional Sheets If Necessary

**NVF 1808952359**

## Remediation Excavation and Sampling Form

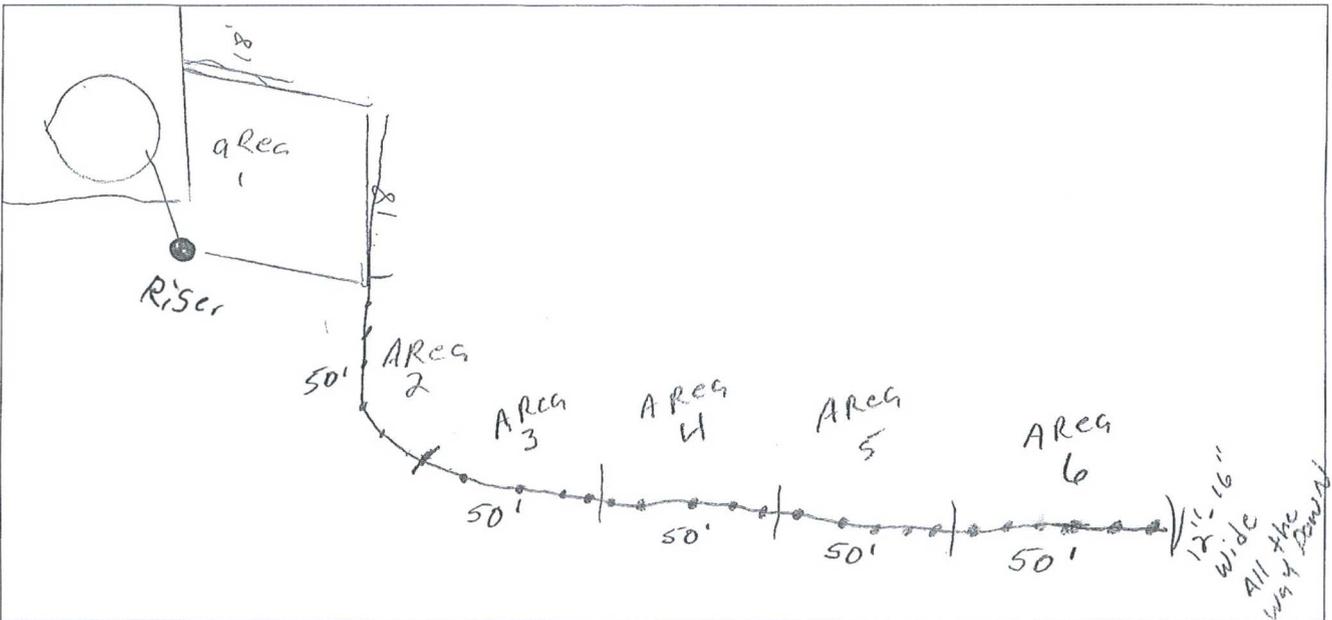
Site Name EPNG A1 Valve Leak

**Excavation Dimensions (feet)**

268' Length area 1 18' hole 12"-16" Width 0-4" Depth \_\_\_\_\_

**Excavation Diagram and Sample Locations**

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



**Sample Information**

OCD Witness Sampling Yes or No

Agency(s) Representative(s) Corey Smith gave me permission

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
<del>Area 1</del> AREA 1	3/15/18	Comp.	Floor	
Area 2	3/15/18	Comp.	Floor	
Area 3	3/15/18	Comp.	Floor	
Area 4	3/15/18	Comp.	Floor	
Area 5	3/15/18	Comp.	Floor	
Area 6	3/15/18	Comp.	Floor	
We Hauled 10 Yards TO IEL				



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

March 28, 2018

Kijun Hong  
Williams Field Services  
1755 Arroyo Dr.,  
Bloomfield, NM 87413  
TEL: (505) 632-4442  
FAX

RE: EPNG A-1

OrderNo.: 1803962

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/16/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services

**Client Sample ID:** EPNG-A1 Spill Area 1

**Project:** EPNG A-1

**Collection Date:** 3/15/2018 9:00:00 AM

**Lab ID:** 1803962-001

**Matrix:** SOIL

**Received Date:** 3/16/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	3/27/2018 11:40:33 PM	37270
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/20/2018 6:31:11 PM	37106
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/20/2018 6:31:11 PM	37106
Surr: DNOP	95.0	70-130		%Rec	1	3/20/2018 6:31:11 PM	37106
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2018 8:05:22 PM	37078
Surr: BFB	88.5	15-316		%Rec	1	3/19/2018 8:05:22 PM	37078
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	3/19/2018 8:05:22 PM	37078
Toluene	ND	0.047		mg/Kg	1	3/19/2018 8:05:22 PM	37078
Ethylbenzene	ND	0.047		mg/Kg	1	3/19/2018 8:05:22 PM	37078
Xylenes, Total	ND	0.093		mg/Kg	1	3/19/2018 8:05:22 PM	37078
Surr: 4-Bromofluorobenzene	85.1	80-120		%Rec	1	3/19/2018 8:05:22 PM	37078

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: EPNG-A1 Spill Area 2

Project: EPNG A-1

Collection Date: 3/15/2018 9:10:00 AM

Lab ID: 1803962-002

Matrix: SOIL

Received Date: 3/16/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	3/28/2018 12:17:48 AM	37270
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	9.5	9.1		mg/Kg	1	3/20/2018 6:53:17 PM	37106
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/20/2018 6:53:17 PM	37106
Surr: DNOP	98.9	70-130		%Rec	1	3/20/2018 6:53:17 PM	37106
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2018 8:28:40 PM	37078
Surr: BFB	89.4	15-316		%Rec	1	3/19/2018 8:28:40 PM	37078
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/19/2018 8:28:40 PM	37078
Toluene	ND	0.049		mg/Kg	1	3/19/2018 8:28:40 PM	37078
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2018 8:28:40 PM	37078
Xylenes, Total	ND	0.098		mg/Kg	1	3/19/2018 8:28:40 PM	37078
Surr: 4-Bromofluorobenzene	85.7	80-120		%Rec	1	3/19/2018 8:28:40 PM	37078

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.

CLIENT: Williams Field Services  
 Project: EPNG A-1  
 Lab ID: 1803962-003

Client Sample ID: EPNG-A1 Spill Area 3  
 Collection Date: 3/15/2018 9:20:00 AM  
 Received Date: 3/16/2018 8:00:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	3/28/2018 12:30:13 AM	37270
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/20/2018 7:15:09 PM	37106
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2018 7:15:09 PM	37106
Surr: DNOP	99.1	70-130		%Rec	1	3/20/2018 7:15:09 PM	37106
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2018 8:51:54 PM	37078
Surr: BFB	90.8	15-316		%Rec	1	3/19/2018 8:51:54 PM	37078
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/19/2018 8:51:54 PM	37078
Toluene	ND	0.047		mg/Kg	1	3/19/2018 8:51:54 PM	37078
Ethylbenzene	ND	0.047		mg/Kg	1	3/19/2018 8:51:54 PM	37078
Xylenes, Total	ND	0.095		mg/Kg	1	3/19/2018 8:51:54 PM	37078
Surr: 4-Bromofluorobenzene	87.5	80-120		%Rec	1	3/19/2018 8:51:54 PM	37078

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services  
 Project: EPNG A-1  
 Lab ID: 1803962-004

Client Sample ID: EPNG-A1 Spill Area 4  
 Collection Date: 3/15/2018 9:30:00 AM  
 Received Date: 3/16/2018 8:00:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	3/28/2018 12:42:38 AM	37270
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/20/2018 7:37:15 PM	37106
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/20/2018 7:37:15 PM	37106
Surr: DNOP	91.5	70-130		%Rec	1	3/20/2018 7:37:15 PM	37106
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/19/2018 9:15:09 PM	37078
Surr: BFB	91.6	15-316		%Rec	1	3/19/2018 9:15:09 PM	37078
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	3/19/2018 9:15:09 PM	37078
Toluene	ND	0.046		mg/Kg	1	3/19/2018 9:15:09 PM	37078
Ethylbenzene	ND	0.046		mg/Kg	1	3/19/2018 9:15:09 PM	37078
Xylenes, Total	ND	0.093		mg/Kg	1	3/19/2018 9:15:09 PM	37078
Surr: 4-Bromofluorobenzene	87.0	80-120		%Rec	1	3/19/2018 9:15:09 PM	37078

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

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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services  
**Project:** EPNG A-1  
**Lab ID:** 1803962-005

**Client Sample ID:** EPNG-A1 Spill Area 5  
**Collection Date:** 3/15/2018 9:40:00 AM  
**Received Date:** 3/16/2018 8:00:00 AM

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	3/28/2018 12:55:02 AM	37270
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	37	9.4		mg/Kg	1	3/21/2018 7:56:40 PM	37106
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/21/2018 7:56:40 PM	37106
Surr: DNOP	104	70-130		%Rec	1	3/21/2018 7:56:40 PM	37106
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2018 9:38:21 PM	37078
Surr: BFB	93.0	15-316		%Rec	1	3/19/2018 9:38:21 PM	37078
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/19/2018 9:38:21 PM	37078
Toluene	ND	0.049		mg/Kg	1	3/19/2018 9:38:21 PM	37078
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2018 9:38:21 PM	37078
Xylenes, Total	ND	0.097		mg/Kg	1	3/19/2018 9:38:21 PM	37078
Surr: 4-Bromofluorobenzene	86.5	80-120		%Rec	1	3/19/2018 9:38:21 PM	37078

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services  
 Project: EPNG A-1  
 Lab ID: 1803962-006

Matrix: SOIL

Client Sample ID: EPNG-A1 Spill Area 6  
 Collection Date: 3/15/2018 9:50:00 AM  
 Received Date: 3/16/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	3/28/2018 1:07:27 AM	37270
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/20/2018 8:21:07 PM	37106
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2018 8:21:07 PM	37106
Surr: DNOP	104	70-130		%Rec	1	3/20/2018 8:21:07 PM	37106
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2018 11:11:05 PM	37078
Surr: BFB	88.9	15-316		%Rec	1	3/19/2018 11:11:05 PM	37078
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/19/2018 11:11:05 PM	37078
Toluene	ND	0.048		mg/Kg	1	3/19/2018 11:11:05 PM	37078
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2018 11:11:05 PM	37078
Xylenes, Total	ND	0.095		mg/Kg	1	3/19/2018 11:11:05 PM	37078
Surr: 4-Bromofluorobenzene	85.2	80-120		%Rec	1	3/19/2018 11:11:05 PM	37078

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803962

28-Mar-18

Client: Williams Field Services

Project: EPNG A-1

Sample ID	<b>MB-37270</b>	SampType:	<b>mbk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37270</b>	RunNo:	<b>50104</b>					
Prep Date:	<b>3/27/2018</b>	Analysis Date:	<b>3/27/2018</b>	SeqNo:	<b>1623784</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-37270</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37270</b>	RunNo:	<b>50104</b>					
Prep Date:	<b>3/27/2018</b>	Analysis Date:	<b>3/27/2018</b>	SeqNo:	<b>1623785</b>	Units:	<b>mg/Kg</b>			
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.              | 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#: 1803962

28-Mar-18

Client: Williams Field Services

Project: EPNG A-1

Sample ID	<b>LCS-37106</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37106</b>	RunNo:	<b>49917</b>					
Prep Date:	<b>3/19/2018</b>	Analysis Date:	<b>3/20/2018</b>	SeqNo:	<b>1616595</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.1	70	130			
Surr: DNOP	4.3		5.000		86.5	70	130			

Sample ID	<b>MB-37106</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37106</b>	RunNo:	<b>49917</b>					
Prep Date:	<b>3/19/2018</b>	Analysis Date:	<b>3/20/2018</b>	SeqNo:	<b>1616596</b>	Units:	<b>mg/Kg</b>			
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	9.6		10.00		95.6	70	130			

Sample ID	<b>LCS-37105</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37105</b>	RunNo:	<b>49917</b>					
Prep Date:	<b>3/19/2018</b>	Analysis Date:	<b>3/20/2018</b>	SeqNo:	<b>1616928</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		87.0	70	130			

Sample ID	<b>MB-37105</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37105</b>	RunNo:	<b>49917</b>					
Prep Date:	<b>3/19/2018</b>	Analysis Date:	<b>3/20/2018</b>	SeqNo:	<b>1616929</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	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#: 1803962

28-Mar-18

Client: Williams Field Services

Project: EPNG A-1

Sample ID <b>MB-37078</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>37078</b>	RunNo: <b>49882</b>								
Prep Date: <b>3/16/2018</b>	Analysis Date: <b>3/19/2018</b>	SeqNo: <b>1615276</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	316			

Sample ID <b>LCS-37078</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>37078</b>	RunNo: <b>49882</b>								
Prep Date: <b>3/16/2018</b>	Analysis Date: <b>3/19/2018</b>	SeqNo: <b>1615277</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	75.9	131			
Surr: BFB	1200		1000		119	15	316			

## 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#: 1803962

28-Mar-18

Client: Williams Field Services

Project: EPNG A-1

Sample ID	<b>MB-37078</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37078</b>	RunNo:	<b>49882</b>					
Prep Date:	<b>3/16/2018</b>	Analysis Date:	<b>3/19/2018</b>	SeqNo:	<b>1615308</b>	Units:	<b>mg/Kg</b>			
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	0.96		1.000		96.3	80	120			

Sample ID	<b>LCS-37078</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37078</b>	RunNo:	<b>49882</b>					
Prep Date:	<b>3/16/2018</b>	Analysis Date:	<b>3/19/2018</b>	SeqNo:	<b>1615309</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	77.3	128			
Toluene	0.96	0.050	1.000	0	95.5	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	94.7	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	96.5	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

### 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

**Sample Log-In Check List**

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1803962 RcptNo: 1

Received By: Erin Melendrez 3/16/2018 8:00:00 AM *UMG*  
 Completed By: Erin Melendrez 3/16/2018 11:39:00 AM *UMG*  
 Reviewed By: *DDS* 3/16/18  
 Labeled By: *MW 3/16/18*

**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: \_\_\_\_\_  
 (<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

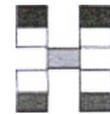
Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

# Chain-of-Custody Record



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Client: WFS

Turn-Around Time:  
 Standard     Rush

Project Name: EPNG A-1

Mailing Address: 1755 ARROYO DR  
Bloomfield NM 87413

Project #: \_\_\_\_\_

Phone #: 505-632-4475

Project Manager: Ki Jun Hong

email or Fax#: Ki Jun Hong@williams.com

QA/QC Package:  
 Standard     Level 4 (Full Validation)

Accreditation:  
 NELAP     Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Sampler: Morgan Killion

On Ice:  Yes     No

Sample Temperature: 1.9-0.7(CF) = 1.2

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, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride	Air Bubbles (Y or N)
X	X	X									X	
X	X	X									X	
X	X	X									X	
X	X	X									X	
X	X	X									X	
X	X	X									X	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
3/15/18	9:00	soil	EPNG-A-1 SP.11 Area 1	1-402	Cool	1803962 -001
3/15/18	9:10	soil	EPNG A-1 SP.11 Area 2	1-402		-002
3/15/18	9:20	soil	EPNG A-1 SP.11 Area 3	1-402		-003
3/15/18	9:30	soil	EPNG A-1 SP.11 Area 4	1-402		-004
3/15/18	9:40	soil	EPNG A-1 SP.11 Area 5	1-402		-005
3/15/18	9:50	soil	EPNG A-1 SP.11 Area 6	1-402		-006

Date: <u>3/15/18</u>	Time: <u>4:30</u>	Relinquished by: <u>Morgan Killion</u>	Received by: <u>Grant Walt</u>	Date: <u>3/15/18</u>	Time: <u>11:30</u>
Date: <u>3/15/18</u>	Time: <u>1840</u>	Relinquished by: <u>Grant Walt</u>	Received by: <u>Grant Walt</u>	Date: <u>3/16/18</u>	Time: <u>0800</u>

Remarks:

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

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

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>La Cosa Compressor Station</b>	Facility Type: <b>Compressor Station</b>

Surface Owner: <b>BLM</b>	Mineral Owner	BLM Project No.
---------------------------	---------------	-----------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>C</b>	<b>34</b>	<b>29N</b>	<b>11W</b>					<b>San Juan</b>

Latitude **36.687713** Longitude **-107.979276**

**NATURE OF RELEASE**

Type of Release: <b>Natural Gas</b>	Volume of Release: <b>466 MMCF Natural Gas</b> <b>No liquids</b>	Volume Recovered: <b>0 MCF</b>
Source of Release: <b>Station ESD</b>	Date and Hour of Occurrence: <b>4/10/2018 @ 4:00 AM</b>	Date and Hour of Discovery: <b>4/10/2018 @ 4:00 AM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>NA</b>	
By Whom? <b>NA</b>	Date and Hour: <b>NA</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	

If a Watercourse was Impacted, Describe Fully.\* **NA**

Describe Cause of Problem and Remedial Action Taken.\* **Failed micro-switch in the ESD panel. There was no liquids associated with this release. No soil clean up required.**

**NMOCD**

Describe Area Affected and Cleanup Action Taken.\* **There was no soil impacts from this release.**

**APR 26 2018**

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kijun Hong</b>	Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>	Approval Date: <b>4/26/18</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>4/23/2018</b> Phone: <b>(505) 632-4475</b>		

\* Attach Additional Sheets If Necessary

**NVF 1811639415**

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

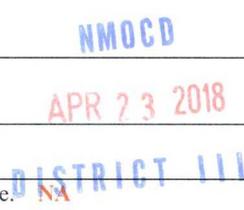
Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>Cabresto Compressor Station</b>	Facility Type: <b>Compressor Station</b>
Surface Owner: <b>US Forest Service</b>	Mineral Owner
	BLM Project No.

**LOCATION OF RELEASE**

Unit Letter <b>A</b>	Section <b>19</b>	Township <b>30N</b>	Range <b>4W</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>San Juan</b>
-------------------------	----------------------	------------------------	--------------------	---------------	------------------	---------------	----------------	---------------------------

Latitude 36.802416 Longitude -107.290237

**NATURE OF RELEASE**

Type of Release: <b>Natural Gas</b>	Volume of Release: <b>55.7 MCF Natural Gas</b> <b>No liquids</b>	Volume Recovered: <b>0 MCF</b>
Source of Release: <b>Starter gas PSV on the compressor engine</b>	Date and Hour of Occurrence: <b>4/4/2018 @ 1:00 PM</b>  <b>Final gas loss determined on</b> <b>4/12/2018</b>	Date and Hour of Discovery: <b>4/4/2018 @ 1:00 PM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>NA</b>	
By Whom? <b>NA</b>	Date and Hour: <b>NA</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: <b>NA</b>	
If a Watercourse was Impacted, Describe Fully.* <b>NA</b>		
Describe Cause of Problem and Remedial Action Taken.* <b>Unit went down on high discharge pressure due to downstream station malfunction. When the pressure built up on the starter gas system, the PSV lifted.</b>		
Describe Area Affected and Cleanup Action Taken.* <b>There was no soil impacts from this release.</b>		

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: 	<b>OIL CONSERVATION DIVISION</b>	
	Approved by Environmental Specialist: 	
Printed Name: <b>Kijun Hong</b>	Approval Date: <b>4/25/18</b>	Expiration Date:
Title: <b>Environmental Specialist</b>	Conditions of Approval:	
E-mail Address: <b>kijun.hong@williams.com</b>	Attached <input type="checkbox"/>	
Date: <b>4/18/2018</b> Phone: <b>(505) 632-4475</b>		

\* Attach Additional Sheets If Necessary

**NVF 1811552050**

MAY 07 2018

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

DISTRICT III

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141  
Revised August 8, 2011

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>Day M#4</b>	Facility Type: <b>Drip Location</b>

Surface Owner: <b>BLM</b>	Mineral Owner	BLM Project No. <b>NMNM 035781</b>
---------------------------	---------------	------------------------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>M</b>	<b>30</b>	<b>27N</b>	<b>10W</b>					<b>San Juan</b>

Latitude **36.54075** Longitude **-107.94385**

**NATURE OF RELEASE**

Type of Release: <b>Natural Gas</b>	Volume of Release: <b>0.0468 MCF Natural Gas</b>	Volume Recovered: <b>0 MCF</b>
Source of Release: <b>Riser coming up from the drip</b>	Date and Hour of Occurrence: <b>3/28/2018 @ 1:32 PM</b>	Date and Hour of Discovery: <b>3/28/2018 @ 1:32 PM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Vanessa Fields and Cory Smith</b>	
By Whom? <b>Kijun Hong</b>	Date and Hour: <b>3/28/2018 @ 3:02 PM</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	

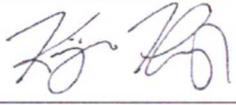
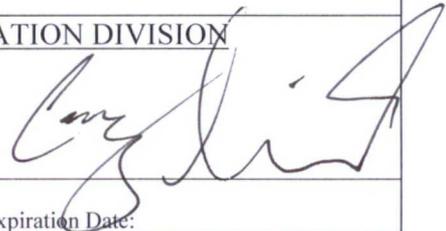
If a Watercourse was Impacted, Describe Fully.\* **Yes, gas release occurred in a wash.**

Describe Cause of Problem and Remedial Action Taken.\* **Pinhole leak on the riser was cause by external corrosion of bare pipe. Well was shut in and equipment has been removed.**

Describe Area Affected and Cleanup Action Taken.\*

**During repair, there was no evidence of soil contamination. Confirmation samples were collected on 4/2/2018. Sample results came back all Non-Detect. Please see attachment for details.**

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kijun Hong</b>	Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>	Approval Date: <b>5/9/18</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>	Conditions of Approval: <b>—</b>	Attached <input type="checkbox"/>
Date: <b>4/30/2018</b>	Phone: <b>(505) 632-4475</b>	

\* Attach Additional Sheets If Necessary

#NOF 1810233495

9



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

April 10, 2018

Lloyd Bell  
Williams Field Services  
1755 Arroyo Dr.,  
Bloomfield, NM 87413  
TEL: (505) 632-4442  
FAX

RE: Day AM

OrderNo.: 1804039

Dear Lloyd Bell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/3/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Comp

Project: Day AM

Collection Date: 4/2/2018 1:40:00 PM

Lab ID: 1804039-001

Matrix: SOIL

Received Date: 4/3/2018 7:42:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/9/2018 9:56:28 PM	37502
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2018 2:47:46 AM	37399
Surr: BFB	119	70-130		%Rec	1	4/5/2018 2:47:46 AM	37399
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/4/2018 8:55:40 PM	37405
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2018 8:55:40 PM	37405
Surr: DNOP	94.3	70-130		%Rec	1	4/4/2018 8:55:40 PM	37405
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Methyl tert-butyl ether (MTBE)	ND	0.048		mg/Kg	1	4/5/2018 2:47:46 AM	37399
Benzene	ND	0.024		mg/Kg	1	4/5/2018 2:47:46 AM	37399
Toluene	ND	0.048		mg/Kg	1	4/5/2018 2:47:46 AM	37399
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2018 2:47:46 AM	37399
Xylenes, Total	ND	0.095		mg/Kg	1	4/5/2018 2:47:46 AM	37399
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	4/5/2018 2:47:46 AM	37399
Surr: Toluene-d8	83.0	70-130		%Rec	1	4/5/2018 2:47:46 AM	37399

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

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

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1804039  
 10-Apr-18

**Client:** Williams Field Services  
**Project:** Day AM

Sample ID <b>MB-37502</b>	SampType: <b>mblk</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBS</b>	Batch ID: <b>37502</b>		RunNo: <b>50408</b>							
Prep Date: <b>4/9/2018</b>	Analysis Date: <b>4/9/2018</b>		SeqNo: <b>1634794</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID <b>LCS-37502</b>	SampType: <b>lcs</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>37502</b>		RunNo: <b>50408</b>							
Prep Date: <b>4/9/2018</b>	Analysis Date: <b>4/9/2018</b>		SeqNo: <b>1634795</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	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#: 1804039  
 10-Apr-18

**Client:** Williams Field Services  
**Project:** Day AM

Sample ID	<b>LCS-37405</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37405</b>	RunNo:	<b>50301</b>					
Prep Date:	<b>4/3/2018</b>	Analysis Date:	<b>4/4/2018</b>	SeqNo:	<b>1630258</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	70	130			
Surr: DNOP	4.1		5.000		82.1	70	130			

Sample ID	<b>MB-37405</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37405</b>	RunNo:	<b>50301</b>					
Prep Date:	<b>4/3/2018</b>	Analysis Date:	<b>4/4/2018</b>	SeqNo:	<b>1630259</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.5	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#: 1804039

10-Apr-18

**Client:** Williams Field Services

**Project:** Day AM

Sample ID	<b>ics-37399</b>		SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>BatchQC</b>		Batch ID: <b>37399</b>	RunNo: <b>50305</b>						
Prep Date:	<b>4/3/2018</b>		Analysis Date: <b>4/4/2018</b>	SeqNo: <b>1630018</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.0	0.050	1.000	0	103	80	120			
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.9	70	130			
Surr: Toluene-d8	0.43		0.5000		86.0	70	130			

Sample ID	<b>mb-37399</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>37399</b>	RunNo: <b>50305</b>						
Prep Date:	<b>4/3/2018</b>		Analysis Date: <b>4/4/2018</b>	SeqNo: <b>1630050</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.050								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.57		0.5000		114	70	130			
Surr: Toluene-d8	0.44		0.5000		87.5	70	130			

Sample ID	<b>ics-37419</b>		SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>BatchQC</b>		Batch ID: <b>37419</b>	RunNo: <b>50360</b>						
Prep Date:	<b>4/4/2018</b>		Analysis Date: <b>4/5/2018</b>	SeqNo: <b>1631820</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.1	70	130			
Surr: Toluene-d8	0.44		0.5000		87.3	70	130			

Sample ID	<b>mb-37419</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>37419</b>	RunNo: <b>50360</b>						
Prep Date:	<b>4/4/2018</b>		Analysis Date: <b>4/5/2018</b>	SeqNo: <b>1631821</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.64		0.5000		128	70	130			
Surr: Toluene-d8	0.42		0.5000		85.0	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#: 1804039  
 10-Apr-18

**Client:** Williams Field Services  
**Project:** Day AM

Sample ID <b>ics-37399</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>37399</b>		RunNo: <b>50305</b>							
Prep Date: <b>4/3/2018</b>	Analysis Date: <b>4/4/2018</b>		SeqNo: <b>1630013</b>				Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.4	70	130			
Surr: BFB	510		500.0		103	70	130			

Sample ID <b>mb-37399</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>37399</b>		RunNo: <b>50305</b>							
Prep Date: <b>4/3/2018</b>	Analysis Date: <b>4/4/2018</b>		SeqNo: <b>1630047</b>				Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	570		500.0		114	70	130			

Sample ID <b>ics-37419</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>37419</b>		RunNo: <b>50360</b>							
Prep Date: <b>4/4/2018</b>	Analysis Date: <b>4/5/2018</b>		SeqNo: <b>1631732</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	520		500.0		105	70	130			

Sample ID <b>mb-37419</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>37419</b>		RunNo: <b>50360</b>							
Prep Date: <b>4/4/2018</b>	Analysis Date: <b>4/5/2018</b>		SeqNo: <b>1631733</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	630		500.0		127	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: WILLIAMS FIELD SERVI

Work Order Number: 1804039

RcptNo: 1

Received By: Anne Thorne 4/3/2018 7:42:00 AM

*Anne Thorne*

Completed By: Isaiah Ortiz 4/3/2018 8:29:09 AM

*IO*

Reviewed By: *DPS* 4/3/18

Labeled By: ENM  
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: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

*ENM 4/3/18*

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

# Chain-of-Custody Record

Client: WFS

Mailing Address: 1755 ARROYO DR.

Phone #:

email or Fax#: LLOYD BELL

QA/QC Package  
 Standard  Level 4 (Full Validation)

Accreditation  
 NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:  
 Standard  Rush \_\_\_\_\_

Project Name: DAY 4M

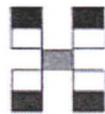
Project #:

Project Manager: LLOYD BELL

Sampler: Trick # regions

On Ice:  Yes  No

Sample Temperature: 2.0 - (-10) = 1.0



## 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, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE	Air Bubbles (Y or N)
X	X	X									X	
X	X	X									X	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
4-2-18	1340	Soil	<sup>77</sup> BOTTOM Comp		COOL	1804039 -001
<del>4-2-18</del>		<del>Soil</del>	<del>WALL</del>		<del>COOL</del>	<del>77</del>

Date: 4-2-18 Time: 1608 Relinquished by: Trick # regions Received by: Chout Walt Date: 4/2/18 Time: 1608

Date: 4/2/18 Time: 1900 Relinquished by: Chout Walt Received by: Jim Date: 04/03/18 Time: 0742

Remarks:

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

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

NMOCD  
MAY 07 2018  
DISTRICT III

Form C-141  
Revised August 8, 2011  
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>Trunk C</b>	Facility Type: <b>Pipeline</b>

Surface Owner: <b>Private</b>	Mineral Owner	BLM Project No.
-------------------------------	---------------	-----------------

#### LOCATION OF RELEASE

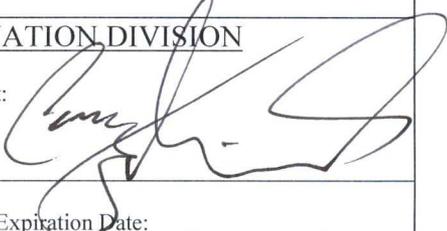
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>G</b>	<b>9</b>	<b>31N</b>	<b>13W</b>					<b>San Juan</b>

Latitude **36.91600** Longitude **-108.20660**

#### NATURE OF RELEASE

Type of Release: <b>Natural Gas</b>	Volume of Release: <b>437.5 MCF Natural Gas</b> <b>Unknown amount of liquids</b>	Volume Recovered: <b>0 MCF</b> <b>18 cubic yards of impacted soil removed</b>
Source of Release: <b>Damaged pipeline due to line strike</b>	Date and Hour of Occurrence: <b>3/31/2018 @ 6:00 PM</b>	Date and Hour of Discovery: <b>3/31/2018 @ 6:00 PM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>NA</b>	
By Whom? <b>NA</b>	Date and Hour: <b>NA</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	
If a Watercourse was Impacted, Describe Fully.* <b>NA</b>		
Describe Cause of Problem and Remedial Action Taken.* <b>A farmer was cleaning out his ditch and replacing his water line when he struck our pipeline with a backhoe. Pipeline was isolated, shut in, and repaired.</b>		
Describe Area Affected and Cleanup Action Taken.* <b>18 cubic yards of impacted soil was removed during cleanup. Confirmation samples were collected on 4/2/2018. All sample results came back below limits. Please see attachments for further details.</b>		

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kijun Hong</b>	Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>	Approval Date: <b>5/9/18</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>4/30/2018</b> Phone: <b>(505) 632-4475</b>		

\* Attach Additional Sheets If Necessary **#NOF 181023 1591**

11

## Remediation Excavation and Sampling Form

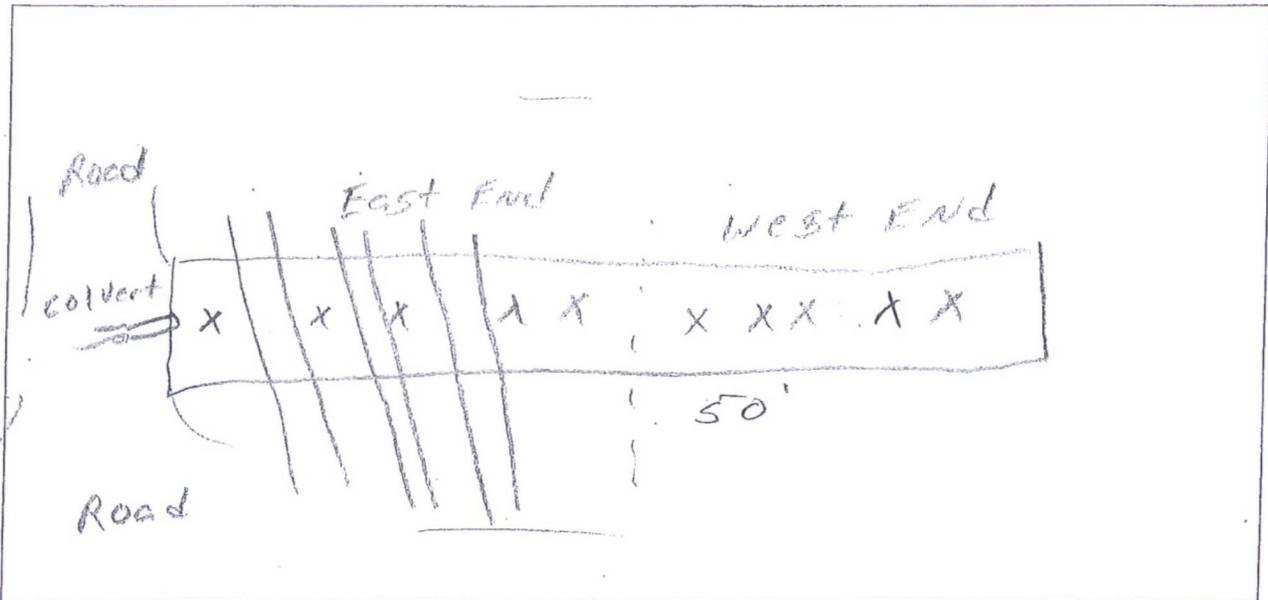
Site Name TRUNK & LINE STRIKE

**Excavation Dimensions (feet)**

50 Length 2 Width 12' to 16" Depth

**Excavation Diagram and Sample Locations**

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



**Sample Information**

OCD Witness Sampling  Yes or No

Agency(s) Representative(s) Vanessa Fields

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
East End Sample	4-2-18	composite	Floor	
West End Sample	4-2-18	composite	Floor	



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

April 10, 2018

Kijun Hong  
Williams Field Services  
1755 Arroyo Dr.,  
Bloomfield, NM 87413  
TEL: (505) 632-4442  
FAX

RE: Trunk C Line strike

OrderNo.: 1804040

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/2/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services      **Client Sample ID:** West End  
**Project:** Trunk C Line strike      **Collection Date:** 4/2/2018 11:30:00 AM  
**Lab ID:** 1804040-001      **Matrix:** SOIL      **Received Date:** 4/2/2018 7:42:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/9/2018 9:06:51 PM	37502
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2018 3:10:53 AM	37399
Surr: BFB	117	70-130		%Rec	1	4/5/2018 3:10:53 AM	37399
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/4/2018 9:17:51 PM	37405
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/4/2018 9:17:51 PM	37405
Surr: DNOP	93.2	70-130		%Rec	1	4/4/2018 9:17:51 PM	37405
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.024		mg/Kg	1	4/5/2018 3:10:53 AM	37399
Toluene	ND	0.049		mg/Kg	1	4/5/2018 3:10:53 AM	37399
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2018 3:10:53 AM	37399
Xylenes, Total	ND	0.097		mg/Kg	1	4/5/2018 3:10:53 AM	37399
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	4/5/2018 3:10:53 AM	37399
Surr: Toluene-d8	71.0	70-130		%Rec	1	4/5/2018 3:10:53 AM	37399

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

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

Analytical Report

Lab Order 1804040

Date Reported: 4/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: East End

Project: Trunk C Line strike

Collection Date: 4/2/2018 10:45:00 AM

Lab ID: 1804040-002

Matrix: SOIL

Received Date: 4/2/2018 7:42:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	74	30		mg/Kg	20	4/9/2018 9:19:15 PM	37502
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2018 3:34:04 AM	37399
Surr: BFB	110	70-130		%Rec	1	4/5/2018 3:34:04 AM	37399
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/4/2018 9:39:51 PM	37405
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/4/2018 9:39:51 PM	37405
Surr: DNOP	94.1	70-130		%Rec	1	4/4/2018 9:39:51 PM	37405
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.025		mg/Kg	1	4/5/2018 3:34:04 AM	37399
Toluene	0.093	0.050		mg/Kg	1	4/5/2018 3:34:04 AM	37399
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2018 3:34:04 AM	37399
Xylenes, Total	0.12	0.099		mg/Kg	1	4/5/2018 3:34:04 AM	37399
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	4/5/2018 3:34:04 AM	37399
Surr: Toluene-d8	82.1	70-130		%Rec	1	4/5/2018 3:34:04 AM	37399

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1804040

10-Apr-18

**Client:** Williams Field Services

**Project:** Trunk C Line strike

Sample ID	<b>MB-37502</b>	SampType:	<b>mbk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37502</b>	RunNo:	<b>50408</b>					
Prep Date:	<b>4/9/2018</b>	Analysis Date:	<b>4/9/2018</b>	SeqNo:	<b>1634794</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-37502</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37502</b>	RunNo:	<b>50408</b>					
Prep Date:	<b>4/9/2018</b>	Analysis Date:	<b>4/9/2018</b>	SeqNo:	<b>1634795</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	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#: 1804040  
 10-Apr-18

**Client:** Williams Field Services  
**Project:** Trunk C Line strike

Sample ID	<b>LCS-37405</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37405</b>	RunNo:	<b>50301</b>					
Prep Date:	<b>4/3/2018</b>	Analysis Date:	<b>4/4/2018</b>	SeqNo:	<b>1630258</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	70	130			
Surr: DNOP	4.1		5.000		82.1	70	130			

Sample ID	<b>MB-37405</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37405</b>	RunNo:	<b>50301</b>					
Prep Date:	<b>4/3/2018</b>	Analysis Date:	<b>4/4/2018</b>	SeqNo:	<b>1630259</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.5	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#: 1804040

10-Apr-18

**Client:** Williams Field Services

**Project:** Trunk C Line strike

Sample ID	<b>Ics-37399</b>		SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>BatchQC</b>		Batch ID: <b>37399</b>	RunNo: <b>50305</b>						
Prep Date:	<b>4/3/2018</b>		Analysis Date: <b>4/4/2018</b>	SeqNo: <b>1630018</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.9	70	130			
Surr: Toluene-d8	0.43		0.5000		86.0	70	130			

Sample ID	<b>mb-37399</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>37399</b>	RunNo: <b>50305</b>						
Prep Date:	<b>4/3/2018</b>		Analysis Date: <b>4/4/2018</b>	SeqNo: <b>1630050</b>	Units: <b>mg/Kg</b>					
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	0.57		0.5000		114	70	130			
Surr: Toluene-d8	0.44		0.5000		87.5	70	130			

Sample ID	<b>Ics-37419</b>		SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>BatchQC</b>		Batch ID: <b>37419</b>	RunNo: <b>50360</b>						
Prep Date:	<b>4/4/2018</b>		Analysis Date: <b>4/5/2018</b>	SeqNo: <b>1631820</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.1	70	130			
Surr: Toluene-d8	0.44		0.5000		87.3	70	130			

Sample ID	<b>mb-37419</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>37419</b>	RunNo: <b>50360</b>						
Prep Date:	<b>4/4/2018</b>		Analysis Date: <b>4/5/2018</b>	SeqNo: <b>1631821</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.64		0.5000		128	70	130			
Surr: Toluene-d8	0.42		0.5000		85.0	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#: 1804040

10-Apr-18

**Client:** Williams Field Services

**Project:** Trunk C Line strike

Sample ID	<b>ics-37399</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37399</b>	RunNo:	<b>50305</b>					
Prep Date:	<b>4/3/2018</b>	Analysis Date:	<b>4/4/2018</b>	SeqNo:	<b>1630013</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.4	70	130			
Surr: BFB	510		500.0		103	70	130			

Sample ID	<b>mb-37399</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37399</b>	RunNo:	<b>50305</b>					
Prep Date:	<b>4/3/2018</b>	Analysis Date:	<b>4/4/2018</b>	SeqNo:	<b>1630047</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	570		500.0		114	70	130			

Sample ID	<b>ics-37419</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37419</b>	RunNo:	<b>50360</b>					
Prep Date:	<b>4/4/2018</b>	Analysis Date:	<b>4/5/2018</b>	SeqNo:	<b>1631732</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	520		500.0		105	70	130			

Sample ID	<b>mb-37419</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37419</b>	RunNo:	<b>50360</b>					
Prep Date:	<b>4/4/2018</b>	Analysis Date:	<b>4/5/2018</b>	SeqNo:	<b>1631733</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	630		500.0		127	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
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- 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: WILLIAMS FIELD SERVI

Work Order Number: 1804040

RcptNo: 1

Received By: Anne Thorne 4/2/2018 7:42:00 AM

*Anne Thorne*

Completed By: Isaiah Ortiz 4/3/2018 8:36:51 AM

*IO*

Reviewed By: *PDS* 4/3/18

Labeled By: ENM  
 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: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

*4/3/18 ENM*

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	1.0	Good	Yes			

# Chain-of-Custody Record

Client: WFS

Mailing Address: 1755 ARROYO DR  
Bloomfield NM 87413

Phone #: 505-632 4475  
 email or Fax#: Kijun.Hong@williams.com

QA/QC Package:  
 Standard  Level 4 (Full Validation)

Accreditation  
 NELAP  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Turn-Around Time:  
 Standard  Rush \_\_\_\_\_

Project Name: TRUNK C Line Strike

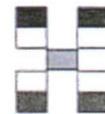
Project #: \_\_\_\_\_

Project Manager: Kijun Hong

Sampler: Morgan Killian

On Ice:  Yes  No

Sample Temperature: 20-CF-1.0-1.0



## 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 + IMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 413.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride	Air Bubbles (Y or N)
X	X	X									X	
X	X	X									X	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
4/2/18	1130	Soil	WEST END	1-402		1804040-001
4/2/18	1045	Soil	EAST END	1-402		1804040-002

Date: <u>4/2/18</u>	Time: <u>11:30</u>	Relinquished by: <u>Morgan Killian</u>	Received by: <u>Morgan Killian</u>	Date: <u>4/2/18</u>	Time: <u>11:30</u>
Date: <u>4/2/18</u>	Time: <u>1900</u>	Relinquished by: <u>Morgan Killian</u>	Received by: <u>Chris</u>	Date: <u>04/03/18</u>	Time: <u>0742</u>

Remarks: \_\_\_\_\_

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

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>Florence 44 Pipeline</b>	Facility Type: <b>Pipeline</b>

Surface Owner: <b>BLM</b>	Mineral Owner	BLM Project No. <b>NMNM035774</b>
---------------------------	---------------	-----------------------------------

#### LOCATION OF RELEASE

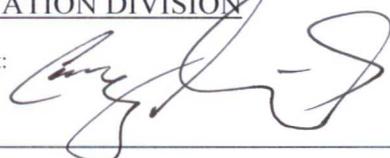
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>I</b>	<b>30</b>	<b>30N</b>	<b>8W</b>					<b>San Juan</b>

Latitude 36.782222 Longitude -107.706389

#### NATURE OF RELEASE

Type of Release: <b>Natural Gas and Pipeline Liquids</b>	Volume of Release: <b>107.9 MCF Natural Gas determined on 5/10/2018</b>	Volume Recovered: <b>0 MCF Natural Gas</b>
<b>NMOCD</b>	<b>Final volume of impacted soil removed 110 yards</b>	<b>Final volume of impacted soil removed 110 yards</b>
Source of Release: <b>Leak in pipeline</b>	Date and Hour of Occurrence: <b>4/20/2018 @ 2:14 PM</b>	Date and Hour of Discovery: <b>4/20/2018 @ 2:14 PM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Vanessa Fields</b>	
By Whom? <b>Kijun Hong</b>	Date and Hour: <b>Verbal notice was given on 5/21/2018 @ 8:39 AM when it was anticipated that more than 50 yards of impacted soil will be removed.</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	
If a Watercourse was Impacted, Describe Fully.* <b>NA</b>		
Describe Cause of Problem and Remedial Action Taken.* <b>Release caused by failure of the pipeline due to external corrosion. During the replacement of bad pipe, impacts were encountered.</b>		
Describe Area Affected and Cleanup Action Taken.* <b>All impacted soil has been removed and backfilled with clean dirt. Confirmation sample results came back below standards. Please see attached documentation for details.</b>		

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kijun Hong</b>	Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>	Approval Date: <b>6/14/18</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>	Conditions of Approval: _____	Attached <input type="checkbox"/>
Date: <b>6/8/2018</b> Phone: <b>(505) 632-4475</b>		

\* Attach Additional Sheets If Necessary

#NOF 1815134159

14

## Remediation Excavation and Sampling Form

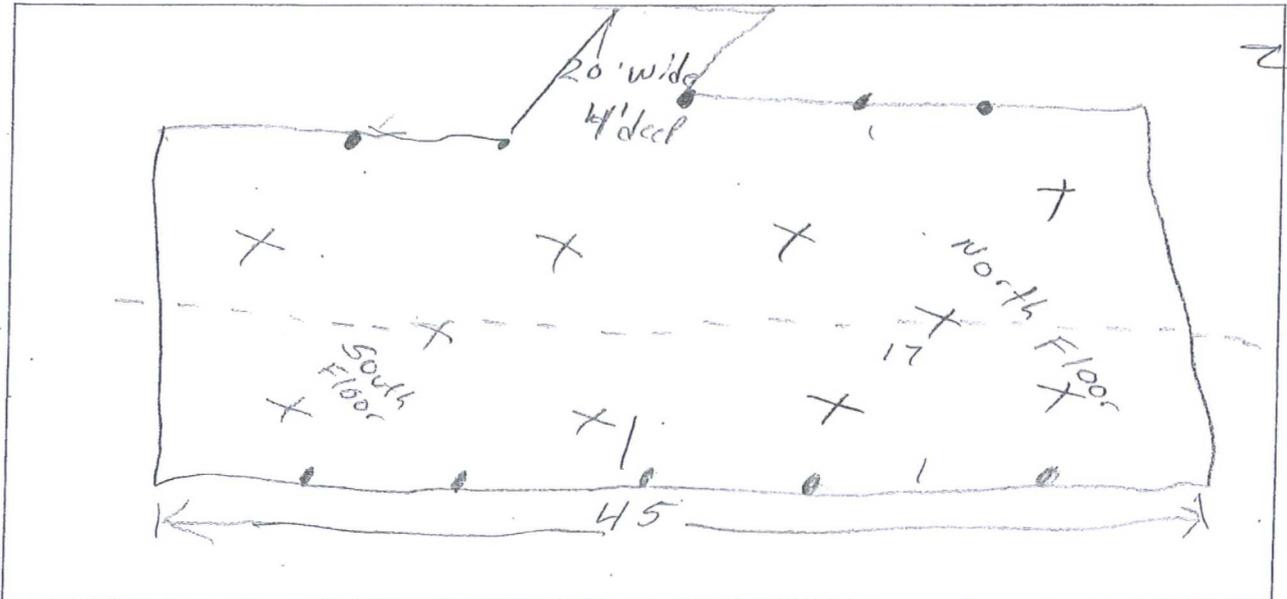
Site Name Florange 44

**Excavation Dimensions (feet)**

45 Length 17 Width 3 Depth

**Excavation Diagram and Sample Locations**

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



**Sample Information**

OCD Witness Sampling  Yes or No

Agency(s) Representative(s) Corcy Smiths

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
North	5-22-18	Composite	Floor	
South	5-22-18	Composite	South	
West	5-22-18	Composite	West	
East	5-22-18	Composite	East	



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

May 29, 2018

Kijun Hong  
Williams Field Services  
1755 Arroyo Dr.,  
Bloomfield, NM 87413  
TEL: (505) 632-4442  
FAX

RE: Florance 44

OrderNo.: 1805C13

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/23/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services  
 Project: Florance 44  
 Lab ID: 1805C13-001

Matrix: SOIL

Client Sample ID: North Floor  
 Collection Date: 5/22/2018 11:30:00 AM  
 Received Date: 5/23/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	150	30		mg/Kg	20	5/23/2018 11:13:29 AM	38280
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: AG
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/23/2018 10:30:42 AM	A51464
Surr: BFB	118	70-130		%Rec	1	5/23/2018 10:30:42 AM	A51464
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: Irm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/23/2018 10:10:04 AM	38274
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/23/2018 10:10:04 AM	38274
Surr: DNOP	87.3	70-130		%Rec	1	5/23/2018 10:10:04 AM	38274
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: AG
Benzene	ND	0.018		mg/Kg	1	5/23/2018 10:30:42 AM	B51464
Toluene	ND	0.037		mg/Kg	1	5/23/2018 10:30:42 AM	B51464
Ethylbenzene	ND	0.037		mg/Kg	1	5/23/2018 10:30:42 AM	B51464
Xylenes, Total	ND	0.073		mg/Kg	1	5/23/2018 10:30:42 AM	B51464
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	5/23/2018 10:30:42 AM	B51464
Surr: Toluene-d8	91.5	70-130		%Rec	1	5/23/2018 10:30:42 AM	B51464

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services  
 Project: Florance 44  
 Lab ID: 1805C13-002

Matrix: SOIL

Client Sample ID: South Floor  
 Collection Date: 5/22/2018 11:40:00 AM  
 Received Date: 5/23/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	250	30		mg/Kg	20	5/23/2018 11:25:54 AM	38280
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	5/23/2018 10:53:55 AM	A51464
Surr: BFB	117	70-130		%Rec	1	5/23/2018 10:53:55 AM	A51464
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/23/2018 10:32:13 AM	38274
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/23/2018 10:32:13 AM	38274
Surr: DNOP	94.7	70-130		%Rec	1	5/23/2018 10:32:13 AM	38274
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: AG
Benzene	ND	0.022		mg/Kg	1	5/23/2018 10:53:55 AM	B51464
Toluene	ND	0.044		mg/Kg	1	5/23/2018 10:53:55 AM	B51464
Ethylbenzene	ND	0.044		mg/Kg	1	5/23/2018 10:53:55 AM	B51464
Xylenes, Total	ND	0.089		mg/Kg	1	5/23/2018 10:53:55 AM	B51464
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	5/23/2018 10:53:55 AM	B51464
Surr: Toluene-d8	85.9	70-130		%Rec	1	5/23/2018 10:53:55 AM	B51464

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.

CLIENT: Williams Field Services

Client Sample ID: West Wall

Project: Florance 44

Collection Date: 5/22/2018 11:50:00 AM

Lab ID: 1805C13-003

Matrix: SOIL

Received Date: 5/23/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	350	30		mg/Kg	20	5/23/2018 11:38:19 AM	38280
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/23/2018 11:17:02 AM	A51464
Surr: BFB	116	70-130		%Rec	1	5/23/2018 11:17:02 AM	A51464
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/23/2018 10:54:02 AM	38274
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/23/2018 10:54:02 AM	38274
Surr: DNOP	90.2	70-130		%Rec	1	5/23/2018 10:54:02 AM	38274
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.017		mg/Kg	1	5/23/2018 11:17:02 AM	B51464
Toluene	ND	0.034		mg/Kg	1	5/23/2018 11:17:02 AM	B51464
Ethylbenzene	ND	0.034		mg/Kg	1	5/23/2018 11:17:02 AM	B51464
Xylenes, Total	ND	0.068		mg/Kg	1	5/23/2018 11:17:02 AM	B51464
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	5/23/2018 11:17:02 AM	B51464
Surr: Toluene-d8	91.5	70-130		%Rec	1	5/23/2018 11:17:02 AM	B51464

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services  
 Project: Florance 44  
 Lab ID: 1805C13-004

Client Sample ID: East Wall  
 Collection Date: 5/22/2018 12:00:00 PM  
 Received Date: 5/23/2018 7:00:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	150	30		mg/Kg	20	5/23/2018 11:50:44 AM	38280
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	5/23/2018 11:40:09 AM	A51464
Surr: BFB	118	70-130		%Rec	1	5/23/2018 11:40:09 AM	A51464
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/23/2018 11:16:03 AM	38274
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/23/2018 11:16:03 AM	38274
Surr: DNOP	96.0	70-130		%Rec	1	5/23/2018 11:16:03 AM	38274
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.019		mg/Kg	1	5/23/2018 11:40:09 AM	B51464
Toluene	ND	0.038		mg/Kg	1	5/23/2018 11:40:09 AM	B51464
Ethylbenzene	ND	0.038		mg/Kg	1	5/23/2018 11:40:09 AM	B51464
Xylenes, Total	ND	0.076		mg/Kg	1	5/23/2018 11:40:09 AM	B51464
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	5/23/2018 11:40:09 AM	B51464
Surr: Toluene-d8	90.9	70-130		%Rec	1	5/23/2018 11:40:09 AM	B51464

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#: 1805C13

29-May-18

Client: Williams Field Services

Project: Florance 44

Sample ID	<b>MB-38280</b>	SampType:	<b>mblk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>38280</b>	RunNo:	<b>51462</b>					
Prep Date:	<b>5/23/2018</b>	Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1677388</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-38280</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>38280</b>	RunNo:	<b>51462</b>					
Prep Date:	<b>5/23/2018</b>	Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1677389</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

## 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#: 1805C13

29-May-18

Client: Williams Field Services

Project: Florance 44

Sample ID	<b>MB-38274</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>38274</b>	RunNo:	<b>51459</b>					
Prep Date:	<b>5/23/2018</b>	Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1675893</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		80.6	70	130			

Sample ID	<b>LCS-38274</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>38274</b>	RunNo:	<b>51459</b>					
Prep Date:	<b>5/23/2018</b>	Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1675894</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	70	130			
Surr: DNOP	3.7		5.000		73.1	70	130			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical 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#: 1805C13

29-May-18

**Client:** Williams Field Services

**Project:** Florance 44

Sample ID	<b>100ng btex lcs</b>	SampType:	<b>LCS4</b>	TestCode:	<b>EPA Method 8260B: Volatiles Short List</b>					
Client ID:	<b>BatchQC</b>	Batch ID:	<b>B51464</b>	RunNo:	<b>51464</b>					
Prep Date:		Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1676027</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.3	80	120			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.8	70	130			
Surr: Toluene-d8	0.49		0.5000		97.7	70	130			

Sample ID	<b>rb</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8260B: Volatiles Short List</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>B51464</b>	RunNo:	<b>51464</b>					
Prep Date:		Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1676034</b>	Units:	<b>mg/Kg</b>			
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	0.63		0.5000		127	70	130			
Surr: Toluene-d8	0.47		0.5000		94.1	70	130			

Sample ID	<b>1805c13-002ams</b>	SampType:	<b>MS4</b>	TestCode:	<b>EPA Method 8260B: Volatiles Short List</b>					
Client ID:	<b>South Floor</b>	Batch ID:	<b>B51464</b>	RunNo:	<b>51464</b>					
Prep Date:		Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1677817</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.022	0.8881	0	83.4	80	120			
Toluene	0.82	0.044	0.8881	0	92.5	80	120			
Ethylbenzene	0.90	0.044	0.8881	0	101	82	121			
Xylenes, Total	2.7	0.089	2.664	0.01755	99.3	80.2	120			
Surr: 4-Bromofluorobenzene	0.48		0.4440		109	70	130			
Surr: Toluene-d8	0.40		0.4440		90.0	70	130			

Sample ID	<b>1805c13-002amsd</b>	SampType:	<b>MSD4</b>	TestCode:	<b>EPA Method 8260B: Volatiles Short List</b>					
Client ID:	<b>South Floor</b>	Batch ID:	<b>B51464</b>	RunNo:	<b>51464</b>					
Prep Date:		Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1677818</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.022	0.8881	0	73.5	80	120	12.7	20	S
Toluene	0.73	0.044	0.8881	0	81.9	80	120	12.2	20	
Ethylbenzene	0.89	0.044	0.8881	0	99.9	82	121	1.04	20	
Xylenes, Total	2.6	0.089	2.664	0.01755	96.2	80.2	120	3.13	20	

**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#: 1805C13

29-May-18

Client: Williams Field Services

Project: Florance 44

Sample ID	1805c13-002amsd	SampType:	MSD4	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	South Floor	Batch ID:	B51464	RunNo:	51464					
Prep Date:		Analysis Date:	5/23/2018	SeqNo:	1677818	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.48		0.4440		108	70	130	0	0	
Surr: Toluene-d8	0.37		0.4440		83.0	70	130	0	0	

## 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#: 1805C13

29-May-18

Client: Williams Field Services

Project: Florance 44

Sample ID	<b>2.5ug gro lcs</b>	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	<b>LCSS</b>	Batch ID:	<b>A51464</b>	RunNo:	<b>51464</b>					
Prep Date:		Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1676019</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.8	70	130			
Surr: BFB	480		500.0		96.0	70	130			

Sample ID	<b>rb</b>	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	<b>PBS</b>	Batch ID:	<b>A51464</b>	RunNo:	<b>51464</b>					
Prep Date:		Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1676020</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	580		500.0		117	70	130			

Sample ID	<b>1805c13-001ams</b>	SampType:	MS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	<b>North Floor</b>	Batch ID:	<b>A51464</b>	RunNo:	<b>51464</b>					
Prep Date:		Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1677710</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.7	18.33	0	91.0	64.7	142			
Surr: BFB	390		366.6		106	70	130			

Sample ID	<b>1805c13-001amsd</b>	SampType:	MSD	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	<b>North Floor</b>	Batch ID:	<b>A51464</b>	RunNo:	<b>51464</b>					
Prep Date:		Analysis Date:	<b>5/23/2018</b>	SeqNo:	<b>1677711</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.7	18.33	0	88.6	64.7	142	2.67	20	
Surr: BFB	380		366.6		103	70	130	0	0	

### 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  
 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: WILLIAMS FIELD SERVI

Work Order Number: 1805C13

RcptNo: 1

Received By: Anne Thorne 5/23/2018 7:00:00 AM

*Anne Thorne*

Completed By: Anne Thorne 5/23/2018 7:07:55 AM

*Anne Thorne*

Reviewed By: *JD* 5/23/18

Labeled by: *Ar* 6/25/18

### 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: _____
( <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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

# Chain-of-Custody Record

Client: WFS

Turn-Around Time: saturday  
 Standard  Rush 85-23-18

Mailing Address: 1755 Arroyo Dr.  
Bloomfield NM 87413

Project Name: Florancc 44

Phone #: 505-632-4475

Project #:

email or Fax#: Kijun.Hong@williams.com

Project Manager: KIJUN HONG

QA/QC Package:  
 Standard  Level 4 (Full Validation)

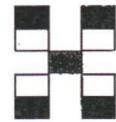
Accreditation  
 NELAP  Other \_\_\_\_\_

Sampler: Morgan Killian

EDD (Type) \_\_\_\_\_

On Ice:  Yes  No

Sample Temperature: 10



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPB (Gas only)	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, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)	
5/21/18	1130	Soil	North Floor	1-402	Cool	701	X		X									X	
5/22/18	1140	Soil	South Floor	1-402	↓	702	X		X									X	
5/22/18	1150	Soil	West Wall	1-402	↓	703	X		X									X	
5/22/18	1200	Soil	East Wall	1-402	↓	704	X		X									X	

Date: <u>5/21/18</u>	Time: <u>1510</u>	Relinquished by: <u>Morgan Killian</u>	Received by: <u>Christine Walt</u>	Date: <u>5/22/18</u>	Time: <u>1510</u>
Date: <u>5/22/18</u>	Time: <u>1820</u>	Relinquished by: <u>Christine Walt</u>	Received by: <u>Al</u>	Date: <u>05/23/18</u>	Time: <u>0700</u>

Remarks:

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

JUN 18 2018

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

DISTRICT III

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report  Final Report

Name of Company: <b>Williams Four Corners LLC</b>	Contact: <b>Kijun Hong</b>
Address: <b>1755 Arroyo Dr., Farmington, NM 87413</b>	Telephone No.: <b>(505) 632-4475</b>
Facility Name: <b>Culpepper Martin 4B Dogleg</b>	Facility Type: <b>Pipeline</b>

Surface Owner: <b>Private</b>	Mineral Owner	BLM Project No.
-------------------------------	---------------	-----------------

LOCATION OF RELEASE

Unit Letter <b>M</b>	Section <b>6</b>	Township <b>31N</b>	Range <b>12W</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>San Juan</b>
-------------------------	---------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	---------------------------

Latitude **36.923156** Longitude **-108.139248**

NATURE OF RELEASE

Type of Release: <b>Natural Gas and Pipeline Liquids</b>	Volume of Release: <b>51.8 MCF Natural Gas</b>	Volume Recovered: <b>0 MCF</b>
	<b>60 yards of impacted soil removed</b>	<b>60 yards of impacted soil removed</b>
Source of Release: <b>Pipeline</b>	Date and Hour of Occurrence: <b>5/14/2018 @ 3:30 PM</b>	Date and Hour of Discovery: <b>5/14/2018 @ 3:30 PM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>NA</b>	
By Whom? <b>NA</b>	Date and Hour: <b>NA</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	
If a Watercourse was Impacted, Describe Fully.* <b>NA</b>		
Describe Cause of Problem and Remedial Action Taken.* <b>Release caused by failure of the pipeline due to internal corrosion. Pipeline was immediately shut-in on the discovery date/time and subsequently repaired on 5/18/2018.</b>		
Describe Area Affected and Cleanup Action Taken.* <b>A total of 60 yards of impacted soil was removed and back filled. Confirmation samples were collected on 5/29/2018 and came back below standards. Please see attached documentation for further details.</b>		

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kijun Hong</b>	Approved by Environmental Specialist: 	
Title: <b>Environmental Specialist</b>	Approval Date: <b>6/15/18</b>	Expiration Date:
E-mail Address: <b>kijun.hong@williams.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>6/13/2018</b> Phone: <b>(505) 632-4475</b>		

\* Attach Additional Sheets If Necessary

NVF 1814950127

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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](http://www.hallenvironmental.com)

June 01, 2018

Kijun Hong  
Williams Field Services  
188 Co. Rd 4900  
Bloomfield, NM 87413  
TEL:  
FAX

RE: Culpepper Martin 4B

OrderNo.: 1805F14

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/30/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Williams Field Services

**Client Sample ID:** West Wall

**Project:** Culpepper Martin 4B

**Collection Date:** 5/29/2018 9:00:00 AM

**Lab ID:** 1805F14-001

**Matrix:** SOIL

**Received Date:** 5/30/2018 6:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	5/30/2018 11:44:46 AM	38378
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>lrm</b>
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	5/30/2018 9:08:39 AM	38375
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/30/2018 9:08:39 AM	38375
Surr: DNOP	89.9	70-130		%Rec	1	5/30/2018 9:08:39 AM	38375
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	27		mg/Kg	5	5/30/2018 9:32:32 AM	38366
Surr: BFB	93.3	15-316		%Rec	5	5/30/2018 9:32:32 AM	38366
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.13		mg/Kg	5	5/30/2018 9:32:32 AM	38366
Toluene	ND	0.27		mg/Kg	5	5/30/2018 9:32:32 AM	38366
Ethylbenzene	ND	0.27		mg/Kg	5	5/30/2018 9:32:32 AM	38366
Xylenes, Total	ND	0.54		mg/Kg	5	5/30/2018 9:32:32 AM	38366
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	5	5/30/2018 9:32:32 AM	38366

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

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





**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1805F14  
 01-Jun-18

**Client:** Williams Field Services  
**Project:** Culpepper Martin 4B

Sample ID <b>MB-38378</b>	SampType: <b>mbk</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBS</b>	Batch ID: <b>38378</b>		RunNo: <b>51601</b>							
Prep Date: <b>5/30/2018</b>	Analysis Date: <b>5/30/2018</b>		SeqNo: <b>1683649</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID <b>LCS-38378</b>	SampType: <b>lcs</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>38378</b>		RunNo: <b>51601</b>							
Prep Date: <b>5/30/2018</b>	Analysis Date: <b>5/30/2018</b>		SeqNo: <b>1683650</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	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#: 1805F14  
01-Jun-18

**Client:** Williams Field Services  
**Project:** Culpepper Martin 4B

Sample ID	<b>MB-38375</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>38375</b>	RunNo:	<b>51598</b>					
Prep Date:	<b>5/30/2018</b>	Analysis Date:	<b>5/30/2018</b>	SeqNo:	<b>1682170</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		86.6	70	130			

Sample ID	<b>LCS-38375</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>38375</b>	RunNo:	<b>51598</b>					
Prep Date:	<b>5/30/2018</b>	Analysis Date:	<b>5/30/2018</b>	SeqNo:	<b>1682171</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	70	130			
Surr: DNOP	3.9		5.000		77.7	70	130			

Sample ID	<b>1805F14-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>West Wall</b>	Batch ID:	<b>38375</b>	RunNo:	<b>51598</b>					
Prep Date:	<b>5/30/2018</b>	Analysis Date:	<b>5/30/2018</b>	SeqNo:	<b>1682197</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.9	49.70	11.57	93.0	62	120			
Surr: DNOP	4.3		4.970		87.2	70	130			

Sample ID	<b>1805F14-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>West Wall</b>	Batch ID:	<b>38375</b>	RunNo:	<b>51598</b>					
Prep Date:	<b>5/30/2018</b>	Analysis Date:	<b>5/30/2018</b>	SeqNo:	<b>1682221</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.10	11.57	86.1	62	120	5.46	20	
Surr: DNOP	4.5		5.010		89.4	70	130	0	0	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 1805F14  
 01-Jun-18

**Client:** Williams Field Services  
**Project:** Culpepper Martin 4B

Sample ID <b>MB-38366</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>38366</b>		RunNo: <b>51603</b>							
Prep Date: <b>5/29/2018</b>	Analysis Date: <b>5/30/2018</b>		SeqNo: <b>1682799</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.9	15	316			

Sample ID <b>LCS-38366</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>38366</b>		RunNo: <b>51603</b>							
Prep Date: <b>5/29/2018</b>	Analysis Date: <b>5/30/2018</b>		SeqNo: <b>1682800</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	75.9	131			
Surr: BFB	1100		1000		106	15	316			

**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#: 1805F14  
01-Jun-18

**Client:** Williams Field Services  
**Project:** Culpepper Martin 4B

Sample ID	<b>MB-38366</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>38366</b>	RunNo:	<b>51603</b>					
Prep Date:	<b>5/29/2018</b>	Analysis Date:	<b>5/30/2018</b>	SeqNo:	<b>1682840</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	<b>LCS-38366</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>38366</b>	RunNo:	<b>51603</b>					
Prep Date:	<b>5/29/2018</b>	Analysis Date:	<b>5/30/2018</b>	SeqNo:	<b>1682841</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	77.3	128			
Toluene	0.96	0.050	1.000	0	96.5	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	98.9	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

**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: WILLIAMS FIELD SERVI

Work Order Number: 1805F14

RcptNo: 1

Received By: Anne Thorne 5/30/2018 6:50:00 AM  
 Completed By: Anne Thorne 5/30/2018 7:02:51 AM  
 Reviewed By: *AT* 5/30/18

*Anne Thorne*  
*Anne Thorne*

*Labeled by AT 05/30/18*

**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? (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:  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	1.2	Good	Yes			

# Chain-of-Custody Record

Client: Williams

Mailing Address: 1755 Arroyo Dr  
Blainville Wm 87413

Phone #:

email or Fax#: Kijun.Hong@Williams.com

QA/QC Package:  
 Standard  Level 4 (Full Validation)

Accreditation  
 NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time: Same Day 5/30/18  
 Standard  Rush

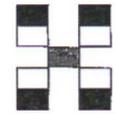
Project Name: Carpenter Martin 4B

Project #:

Project Manager: Kijun Hong

Sampler: Chris Lucero  
On Ice:  Yes  No

Sample Temperature: 172



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMBs (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, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
<del>5/29/18</del>	<del>0900</del>			<del>mech kit</del>		<del>805F14</del>												
5/29/18	0910	Soil	West wall	4oz Jar	COOL	201	X	X										
5/29/18	0905	↓	East wall	↓	↓	202	↓	↓										
5/29/18	0910	↓	Bottom	↓	↓	203	↓	↓										

Date: <u>5/29/18</u>	Time: <u>1052</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>5/29/18</u>	Time: <u>1037</u>
Date: <u>5/29/18</u>	Time: <u>1820</u>	Relinquished by: <u>Christine Walker</u>	Received by: <u>[Signature]</u>	Date: <u>5/30/18</u>	Time: <u>0650</u>

Remarks:

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

**Remediation Excavation and Sampling Form**

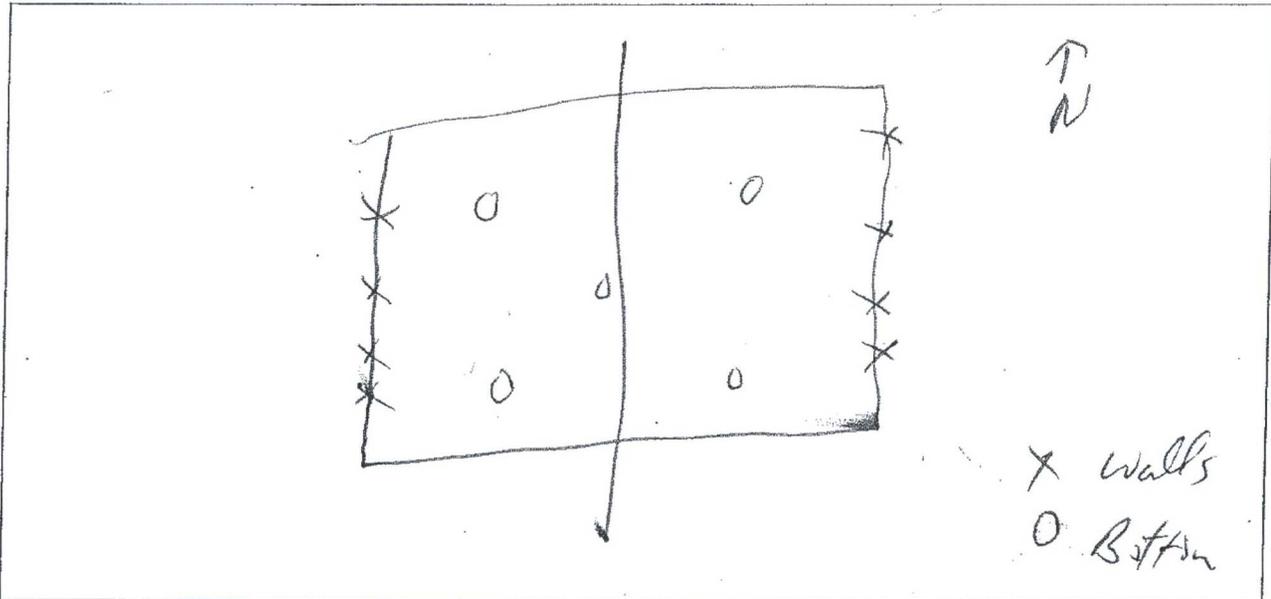
Site Name Cullpaper Martin 4B

**Excavation Dimensions (feet)**

30' Length 20' Width 8'-10' Depth

**Excavation Diagram and Sample Locations**

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



**Sample Information**

OCD Witness Sampling  Yes or No

Agency(s) Representative(s) Vanessa Fields

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
001	5/29/18	Comp West wall	Wall	
002	5/29/18	Comp East wall	Wall	
003	5/29/18	Comp Bottom	Bottom	