

**3R-1013**

**Release Report/ General  
Correspondence**

**Williams SJ**

**Date: Apr-Jun 2015**

36 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 Williams Four Corners LLC	Contact Kelsey Christiansen
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4606
Facility Name La Jara Compressor Station	Facility Type Compressor Station
Surface Owner Bureau of Land Management	Mineral Owner
API No.	

**LOCATION OF RELEASE**

Unit Letter M	Section 1	Township 30N	Range 9W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
------------------	--------------	-----------------	-------------	---------------	------------------	---------------	----------------	--------------------

Latitude 36.81754° N Longitude 107.49144° W

**NATURE OF RELEASE**

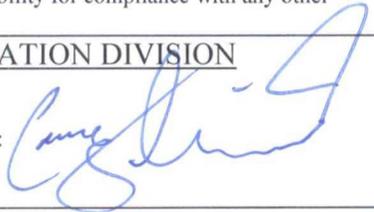
Type of Release Natural Gas	Volume of Release 617 MCF	Volume Recovered 0 MCF
Source of Release Pressure Relief Valve V-11339	Date and Hour of Occurrence 04/06/15, 12:00 PM MST	Date and Hour of Discovery 04/06/15, 12:00 PM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, NMOCD Shari Ketcham, BLM	
By Whom? Kelsey Christiansen	Date and Hour 04/06/2015 at 04:15 PM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\* **OIL CONS. DIV DIST. 3**  
 Not Applicable **APR 10 2015**

Describe Cause of Problem and Remedial Action Taken.\*  
 Fuel gas pressure relieve valve failed allowing the release of natural gas to the atmosphere. The line was blocked off to secure the release and Williams' contractor was called out to repair the valve and certify that it would go off at the correct set point.

Describe Area Affected and Cleanup Action Taken.\*  
 No clean-up required for natural gas releases.

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.

	<b>OIL CONSERVATION DIVISION</b>	
Signature:	Approved by Environmental Specialist: 	
Printed Name: Kelsey Christiansen	Approval Date: <u>5/8/15</u>	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 04/07/15	Phone: 505-632-4606	

\* Attach Additional Sheets If Necessary

#NCS 15 128 55 198

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 Williams Four Corners LLC	Contact Mitch Morris
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4708
Facility Name Trunk Q Tank 507	Facility Type Pipeline Drip Tank
Surface Owner Bureau of Land Management	Mineral Owner
API No.	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	28	26N	8W					San Juan

Latitude 36.452122° N Longitude -107.681064° W

**NATURE OF RELEASE**

Type of Release Condensate and Produced Water Mix	Volume of Release Estimated at 14.09 BBL	Volume Recovered 14.09 BBL
Source of Release Corrosion on Tank	Date and Hour of Occurrence 04/07/2015, 12:00 PM MST	Date and Hour of Discovery 04/07/2015, 12:00 PM MST
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.	

**OIL CONS. DIV DIST. 3**

**APR 23 2015**

If a Watercourse was Impacted, Describe Fully.\*

Not Applicable

Describe Cause of Problem and Remedial Action Taken.\*

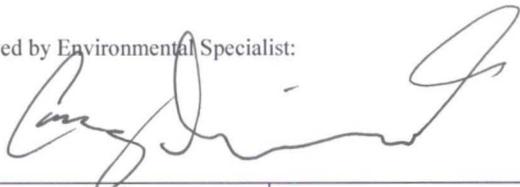
An operations technician observed a hole in a storage tank that released pipeline liquids into a synthetically lined containment. The liquids were removed via vacuum truck and taken to an approved disposal site. The tank has been removed from service.

Describe Area Affected and Cleanup Action Taken.\*

The released liquids were removed via vacuum truck. The secondary containment is synthetically lined and no soil was impacted.

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

OIL CONSERVATION DIVISION

 Signature:	Approved by Environmental Specialist: 	
Printed Name: Mitch Morris	Approval Date: 6/23/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: mitch.morris@williams.com	Attached <input type="checkbox"/>	
Date: 04/20/2015	Phone: 505-632-4708	

\* Attach Additional Sheets If Necessary

#NCS 15 17442299

AUG 03 2015

Form C-141  
Revised August 8, 2011

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

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: Williams Four Corners LLC	Contact: Kelsey Christiansen
Address: 188 CR 4900, Bloomfield, NM 87413	Telephone No.: (505) 632-4606
Facility Name: Trunk P Pipeline	Facility Type: Pipeline
Surface Owner: BLM	Mineral Owner
API No.	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	23	31N	8W					San Juan

Latitude 36.88372° N Longitude -107.63855° W

**NATURE OF RELEASE**

Type of Release: Natural Gas	Volume of Release: 2,623 MCF Natural Gas	Volume Recovered: 0 MCF Natural gas
Source of Release: Pinhole	Date and Hour of Occurrence: 07/09/15 at 06:00 PM MST	Date and Hour of Discovery: 07/09/15 at 06:00 PM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, NMOCD Shari Ketcham, BLM	
By Whom? Kelsey Christiansen	Date and Hour: 07/10/15 at 3:20 PM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Not Applicable

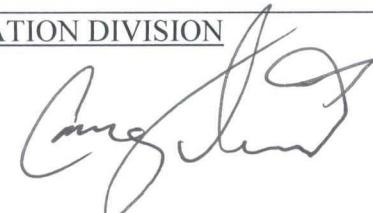
Describe Cause of Problem and Remedial Action Taken.\*

On July 9, 2015 Williams received notification from another operator of a possible leak from the Trunk P pipeline. Upon investigation of the pipeline the block valve was closed and the line was blown down. An estimate of approximately 2,397 MCF natural gas was released. Repairs to the pipeline occurred the week of 07/13/15 and confirmation soil samples were collected to confirm cleanup standards were met.

Describe Area Affected and Cleanup Action Taken.\*

No visually impacted soil, confirmation soil samples collected and laboratory analytical results are attached.

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>	
	Approved by Environmental Specialist: 	
Printed Name: Kelsey Christiansen	Approval Date: 8/12/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 07/09/14	Phone: (505) 632-4606	

\* Attach Additional Sheets If Necessary

#NCS 15224 37367



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)

July 29, 2015

Kelsey Christiansen  
Williams Field Services  
188 Co. Rd 4900  
Bloomfield, NM 87413  
TEL: (505) 632-4442  
FAX

RE: Trunk P

OrderNo.: 1507889

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/21/2015 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: Trunk P  
 Lab ID: 1507889-001

Matrix: SOIL

Client Sample ID: Trunk P Bottom  
 Collection Date: 7/16/2015 10:50:00 AM  
 Received Date: 7/21/2015 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	7/27/2015 6:49:07 PM	20464
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/22/2015 4:09:04 PM	20338
Surr: DNOP	65.2	57.9-140		%REC	1	7/22/2015 4:09:04 PM	20338
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2015 3:27:52 PM	20352
Surr: BFB	89.8	75.4-113		%REC	1	7/22/2015 3:27:52 PM	20352
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	7/22/2015 3:27:52 PM	20352
Toluene	ND	0.047		mg/Kg	1	7/22/2015 3:27:52 PM	20352
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2015 3:27:52 PM	20352
Xylenes, Total	ND	0.095		mg/Kg	1	7/22/2015 3:27:52 PM	20352
Surr: 4-Bromofluorobenzene	93.4	80-120		%REC	1	7/22/2015 3:27:52 PM	20352

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
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

**Hall Environmental Analysis Laboratory, Inc.**

**Analytical Report**

Lab Order **1507889**

Date Reported: **7/29/2015**

**CLIENT:** Williams Field Services

**Client Sample ID:** Trunk P Side Walls

**Project:** Trunk P

**Collection Date:** 7/16/2015 10:45:00 AM

**Lab ID:** 1507889-002

**Matrix:** SOIL

**Received Date:** 7/21/2015 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	33	30		mg/Kg	20	7/27/2015 7:01:32 PM	20464
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/22/2015 4:30:26 PM	20338
Surr: DNOP	81.5	57.9-140		%REC	1	7/22/2015 4:30:26 PM	20338
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2015 4:54:10 PM	20352
Surr: BFB	89.7	75.4-113		%REC	1	7/22/2015 4:54:10 PM	20352
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	7/22/2015 4:54:10 PM	20352
Toluene	ND	0.047		mg/Kg	1	7/22/2015 4:54:10 PM	20352
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2015 4:54:10 PM	20352
Xylenes, Total	ND	0.095		mg/Kg	1	7/22/2015 4:54:10 PM	20352
Surr: 4-Bromofluorobenzene	95.0	80-120		%REC	1	7/22/2015 4:54:10 PM	20352

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
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1507889  
29-Jul-15

Client: Williams Field Services  
Project: Trunk P

Sample ID	<b>MB-20464</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>20464</b>	RunNo:	<b>27773</b>					
Prep Date:	<b>7/27/2015</b>	Analysis Date:	<b>7/27/2015</b>	SeqNo:	<b>835871</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-20464</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>20464</b>	RunNo:	<b>27773</b>					
Prep Date:	<b>7/27/2015</b>	Analysis Date:	<b>7/27/2015</b>	SeqNo:	<b>835872</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	96.3	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
- R RPD outside accepted recovery limits
- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507889

29-Jul-15

Client: Williams Field Services

Project: Trunk P

Sample ID	<b>MB-20338</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>20338</b>	RunNo:	<b>27668</b>					
Prep Date:	<b>7/21/2015</b>	Analysis Date:	<b>7/22/2015</b>	SeqNo:	<b>831815</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								
Surr: DNOP	12		10.00		115	57.9	140			

Sample ID	<b>LCS-20338</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>20338</b>	RunNo:	<b>27701</b>					
Prep Date:	<b>7/21/2015</b>	Analysis Date:	<b>7/23/2015</b>	SeqNo:	<b>832534</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	57.4	139			
Surr: DNOP	5.1		5.000		101	57.9	140			

## 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
- R RPD outside accepted recovery limits
- 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

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

WO#: 1507889  
 29-Jul-15

**Client:** Williams Field Services  
**Project:** Trunk P

Sample ID <b>MB-20352</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>20352</b>		RunNo: <b>27685</b>							
Prep Date: <b>7/21/2015</b>	Analysis Date: <b>7/22/2015</b>		SeqNo: <b>831825</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	910		1000		91.3	75.4	113			

Sample ID <b>LCS-20352</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>20352</b>		RunNo: <b>27685</b>							
Prep Date: <b>7/21/2015</b>	Analysis Date: <b>7/22/2015</b>		SeqNo: <b>831826</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	99.3	79.6	122			
Surr: BFB	970		1000		97.5	75.4	113			

Sample ID <b>1507889-001AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>Trunk P Bottom</b>	Batch ID: <b>20352</b>		RunNo: <b>27685</b>							
Prep Date: <b>7/21/2015</b>	Analysis Date: <b>7/22/2015</b>		SeqNo: <b>831834</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.7	23.67	0	108	62.5	151			
Surr: BFB	910		947.0		95.9	75.4	113			

Sample ID <b>1507889-001AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>Trunk P Bottom</b>	Batch ID: <b>20352</b>		RunNo: <b>27685</b>							
Prep Date: <b>7/21/2015</b>	Analysis Date: <b>7/22/2015</b>		SeqNo: <b>831835</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	4.7	23.63	0	106	62.5	151	1.79	22.1	
Surr: BFB	910		945.2		96.7	75.4	113	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
- R RPD outside accepted recovery limits
- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1507889

29-Jul-15

Client: Williams Field Services

Project: Trunk P

Sample ID	<b>MB-20352</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>20352</b>	RunNo:	<b>27685</b>					
Prep Date:	<b>7/21/2015</b>	Analysis Date:	<b>7/22/2015</b>	SeqNo:	<b>831843</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	80	120			

Sample ID	<b>LCS-20352</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>20352</b>	RunNo:	<b>27685</b>					
Prep Date:	<b>7/21/2015</b>	Analysis Date:	<b>7/22/2015</b>	SeqNo:	<b>831844</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.6	128			
Toluene	0.95	0.050	1.000	0	94.9	75	124			
Ethylbenzene	0.98	0.050	1.000	0	98.3	79.5	126			
Xylenes, Total	3.0	0.10	3.000	0	99.8	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	<b>1507889-002AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>Trunk P Side Walls</b>	Batch ID:	<b>20352</b>	RunNo:	<b>27685</b>					
Prep Date:	<b>7/21/2015</b>	Analysis Date:	<b>7/22/2015</b>	SeqNo:	<b>831852</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.047	0.9452	0	109	69.6	136			
Toluene	1.0	0.047	0.9452	0.009763	107	76.2	134			
Ethylbenzene	1.0	0.047	0.9452	0	109	75.8	137			
Xylenes, Total	3.1	0.095	2.836	0.01996	107	78.9	133			
Surr: 4-Bromofluorobenzene	0.94		0.9452		99.7	80	120			

Sample ID	<b>1507889-002AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>Trunk P Side Walls</b>	Batch ID:	<b>20352</b>	RunNo:	<b>27685</b>					
Prep Date:	<b>7/21/2015</b>	Analysis Date:	<b>7/22/2015</b>	SeqNo:	<b>831853</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.047	0.9470	0	113	69.6	136	4.16	20	
Toluene	1.1	0.047	0.9470	0.009763	112	76.2	134	5.22	20	
Ethylbenzene	1.1	0.047	0.9470	0	117	75.8	137	7.83	20	
Xylenes, Total	3.3	0.095	2.841	0.01996	115	78.9	133	7.60	20	
Surr: 4-Bromofluorobenzene	1.0		0.9470		106	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  
R RPD outside accepted recovery limits  
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

# Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI

Work Order Number: 1507889

RcptNo: 1

Received by/date: AT 07/21/15

Logged By: Anne Thorne 7/21/2015 6:55:00 AM

*Anne Thorne*

Completed By: Anne Thorne 7/21/2015

*Anne Thorne*

Reviewed By: AG 07/21/15

**Chain of Custody**

- 1. Custody seals intact on sample bottles? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Courier

**Log In**

- 4. Was an attempt made to cool the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. 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)**

- 16. 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: _____	

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			



AUG 03 2015

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 Williams Four Corners LLC	Contact Monica Sandoval
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4625
Facility Name 32-9 CDP	Facility Type Compressor Station

Surface Owner Private Land	Mineral Owner	API No.
----------------------------	---------------	---------

**LOCATION OF RELEASE**

Unit Letter L	Section 14	Township 31N	Range 10W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
---------------	------------	--------------	-----------	---------------	------------------	---------------	----------------	-----------------

Latitude 36.89597° N Longitude 107.86047° W

**NATURE OF RELEASE**

Type of Release Natural Gas	Volume of Release 7,050 MCF	Volume Recovered 0 MCF
Source of Release Pressure Relief Valve	Date and Hour of Occurrence 07/27/2015, 08:00 AM MST	Date and Hour of Discovery 07/27/2015, 08:00 AM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell, NMOCD	
By Whom? Kelsey Christiansen	Date and Hour 07/27/15 at 12:00 AM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*  
Not Applicable

Describe Cause of Problem and Remedial Action Taken.\*  
When the Milagro Gas Plant emergency shut down on July 25<sup>th</sup>, 2015 the pressure relief valve (PSV) at 32-9 CDP lifted and remained open until the valve was shut in at 08:00 on July 27<sup>th</sup>, 2015 resulting in the loss of approximately 7,050 MCF of natural gas vented to atmosphere. Valve was closed immediately upon discovery.

Describe Area Affected and Cleanup Action Taken.\*  
No cleanup required with natural gas release vented to atmosphere.

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: Kelsey Christiansen	Approval Date: 8/12/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: July 29, 2015	Phone: 505-632-4606	

\* Attach Additional Sheets If Necessary

#NCS 15 244 37091  
2

(1)

AUG 03 2015

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: Williams Four Corners LLC	Contact: Jana Franchini
Address: 188 CR 4900, Bloomfield, NM 87413	Telephone No.: (505) 634-4951
Facility Name: Milagro Cogeneration & Gas Plant	Facility Type: Facility
Surface Owner: Williams	Mineral Owner
API No.	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	12	29N	11W					San Juan

Latitude 36.735966° N Longitude -107.942329° W

#### NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 643 MCF Natural Gas	Volume Recovered: 0 MCF Natural Gas
Source of Release: ESD (Natural Gas)	Date and Hour of Occurrence: 07/25/2015 at 04:00 PM MST	Date and Hour of Discovery: 07/25/2015 at 04:00 PM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell, NMOCD	
By Whom? Kelsey Christiansen	Date and Hour: 07/27/2015 at 12:00 AM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* The Milagro Gas Plant experienced a sudden emergency shutdown (ESD) event, due to unforeseen issues resulting from failure of the flame associated with the Cogen #2. As a result of the ESD, 643 MCF of natural gas was vented to atmosphere. The faulty flame scanners were replaced to prevent a future re-occurrence at the plant.		
Describe Area Affected and Cleanup Action Taken.* No clean-up required for natural gas release vented to atmosphere.		

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>	
	Approved by Environmental Specialist: 	
Printed Name: Kelsey Christiansen	Approval Date: 8/12/15	Expiration Date:
E-mail Address: kelsey.christiansen@williams.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 07/29/2015	Phone: (505) 632-4606	

\* Attach Additional Sheets If Necessary

# NCS 15 2014 36873  
2

①

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

AUG 21 2015

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 Williams Four Corners LLC	Contact Kelsey Christiansen
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4606
Facility Name Com Hale 9E	Facility Type Pipeline
Surface Owner Bureau of Land Management	Mineral Owner
API No.	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	15	26N	8W					San Juan

Latitude 36.49119° N Longitude -107.67215° W

**NATURE OF RELEASE**

Type of Release Produced Water from Pipeline	Volume of Release Estimated 5 BBLs	Volume Recovered 0 BBLs
Source of Release Pinhole	Date and Hour of Occurrence 08/13/2015, 01:30 PM MST	Date and Hour of Discovery 08/13/2015, 01:30 PM MST
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.	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.*  While performing repairs on the Com Hale 9E pipeline Williams Op Tech observed impacted soil from produced water pipeline liquids. Repairs were successfully made to the pipeline and an environmental assessment occurred in conjunction with excavation of the impacted soil. Confirmation soil samples were collected to determine acceptable cleanup standards are met.		
Describe Area Affected and Cleanup Action Taken.*  Environmental assessment occurred in conjunction with excavation of the impacted soil. Confirmation soil samples were collected to determine acceptable cleanup standards are met. Samples were run for the following parameters; Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) via method 8021, Total petroleum hydrocarbons (TPH) via Method 8015, and Chlorides via Method 300, and are attached.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

**OIL CONSERVATION DIVISION**

Signature: 	Approved by Environmental Specialist: 	
Printed Name: Kelsey Christiansen	Approval Date: 9/2/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 08/18/2015	Phone: 505-632-4606	

\* Attach Additional Sheets If Necessary

#NCS 152453 8849



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)

August 17, 2015

Kelsey Christiansen  
Williams Field Services  
188 Co. Rd 4900  
Bloomfield, NM 87413  
TEL: (505) 632-4442  
FAX

RE: CON Hale #2E

OrderNo.: 1508675

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/14/2015 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 horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: CON Hale #2E Bottom Comp Sit

Project: CON Hale #2E

Collection Date: 8/13/2015 1:30:00 PM

Lab ID: 1508675-001

Matrix: SOIL

Received Date: 8/14/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	30		mg/Kg	20	8/14/2015 12:15:37 PM	20806
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2015 11:13:17 AM	R28204
Surr: BFB	104	70-130		%REC	1	8/14/2015 11:13:17 AM	R28204
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/14/2015 10:36:49 AM	20793
Surr: DNOP	100	57.9-140		%REC	1	8/14/2015 10:36:49 AM	20793
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: DJF
Benzene	ND	0.049		mg/Kg	1	8/14/2015 11:13:17 AM	R28204
Toluene	ND	0.049		mg/Kg	1	8/14/2015 11:13:17 AM	R28204
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2015 11:13:17 AM	R28204
Xylenes, Total	ND	0.098		mg/Kg	1	8/14/2015 11:13:17 AM	R28204
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%REC	1	8/14/2015 11:13:17 AM	R28204
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	8/14/2015 11:13:17 AM	R28204
Surr: Dibromofluoromethane	112	70-130		%REC	1	8/14/2015 11:13:17 AM	R28204
Surr: Toluene-d8	95.8	70-130		%REC	1	8/14/2015 11:13:17 AM	R28204

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
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1508675

17-Aug-15

Client: Williams Field Services

Project: CON Hale #2E

Sample ID	<b>MB-20806</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>20806</b>	RunNo:	<b>28219</b>					
Prep Date:	<b>8/14/2015</b>	Analysis Date:	<b>8/14/2015</b>	SeqNo:	<b>850587</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-20806</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>20806</b>	RunNo:	<b>28219</b>					
Prep Date:	<b>8/14/2015</b>	Analysis Date:	<b>8/14/2015</b>	SeqNo:	<b>850588</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	95.7	90	110			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1508675

17-Aug-15

Client: Williams Field Services

Project: CON Hale #2E

Sample ID	<b>MB-20793</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>20793</b>	RunNo:	<b>28190</b>					
Prep Date:	<b>8/14/2015</b>	Analysis Date:	<b>8/14/2015</b>	SeqNo:	<b>849641</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								
Surr: DNOP	11		10.00		105	57.9	140			

Sample ID	<b>LCS-20793</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>20793</b>	RunNo:	<b>28190</b>					
Prep Date:	<b>8/14/2015</b>	Analysis Date:	<b>8/14/2015</b>	SeqNo:	<b>849645</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	96.5	57.4	139			
Surr: DNOP	5.0		5.000		99.3	57.9	140			

### 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
- R RPD outside accepted recovery limits
- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1508675

17-Aug-15

**Client:** Williams Field Services

**Project:** CON Hale #2E

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>R28204</b>		RunNo: <b>28204</b>							
Prep Date:	Analysis Date: <b>8/14/2015</b>		SeqNo: <b>852314</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.8	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.49		0.5000		98.6	70	130			

Sample ID <b>100ng lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>R28204</b>		RunNo: <b>28204</b>							
Prep Date:	Analysis Date: <b>8/14/2015</b>		SeqNo: <b>852315</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	70	130			
Toluene	1.0	0.050	1.000	0	100	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.1	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			
Surr: Toluene-d8	0.47		0.5000		94.3	70	130			

Sample ID <b>1508675-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>CON Hale #2E Botto</b>	Batch ID: <b>R28204</b>		RunNo: <b>28204</b>							
Prep Date:	Analysis Date: <b>8/14/2015</b>		SeqNo: <b>852316</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9843	0	111	70	130			
Toluene	1.0	0.049	0.9843	0	104	65	138			
Surr: 1,2-Dichloroethane-d4	0.56		0.4922		114	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4922		96.5	70	130			
Surr: Dibromofluoromethane	0.62		0.4922		126	70	130			
Surr: Toluene-d8	0.47		0.4922		95.4	70	130			

Sample ID <b>1508675-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>CON Hale #2E Botto</b>	Batch ID: <b>R28204</b>		RunNo: <b>28204</b>							
Prep Date:	Analysis Date: <b>8/14/2015</b>		SeqNo: <b>852317</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9843	0	103	70	130	6.82	20	
Toluene	1.0	0.049	0.9843	0	102	65	138	1.48	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
- R RPD outside accepted recovery limits
- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1508675

17-Aug-15

**Client:** Williams Field Services

**Project:** CON Hale #2E

Sample ID	1508675-001amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	CON Hale #2E Botto	Batch ID:	R28204	RunNo:	28204					
Prep Date:		Analysis Date:	8/14/2015	SeqNo:	852317	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.54		0.4922		110	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.49		0.4922		99.6	70	130	0	0	
Surr: Dibromofluoromethane	0.59		0.4922		120	70	130	0	0	
Surr: Toluene-d8	0.45		0.4922		92.2	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
- R RPD outside accepted recovery limits
- 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

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

WO#: 1508675  
 17-Aug-15

**Client:** Williams Field Services  
**Project:** CON Hale #2E

Sample ID <b>rb1</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>R28204</b>		RunNo: <b>28204</b>							
Prep Date:	Analysis Date: <b>8/15/2015</b>		SeqNo: <b>852409</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	490		500.0		98.5	70	130			

Sample ID <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>R28204</b>		RunNo: <b>28204</b>							
Prep Date:	Analysis Date: <b>8/14/2015</b>		SeqNo: <b>852410</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	102	70	123			
Surr: BFB	490		500.0		97.6	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

**Sample Log-In Check List**

Client Name: WILLIAMS FIELD SERVI

Work Order Number: 1508675

RcptNo: 1

Received by/date: AG 08/14/15

Logged By: Anne Thorne 8/14/2015 7:00:00 AM *Anne Thorne*

Completed By: Anne Thorne 8/14/2015 *Anne Thorne*

Reviewed By: *JA* 08/14/15

**Chain of Custody**

- 1. Custody seals intact on sample bottles? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Courier

**Log In**

- 4. Was an attempt made to cool the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. 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)**

- 16. 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: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Yes			

