

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

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


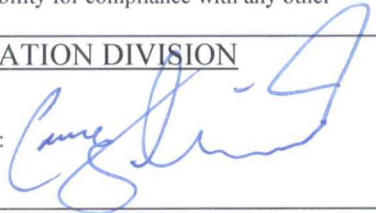
Name of Company Williams Four Corners LLC	Contact Kelsey Christiansen	
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4606	
Facility Name La Jara Compressor Station	Facility Type Compressor Station	
Surface Owner Bureau of Land Management	Mineral Owner	API No.

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
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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.* Not Applicable		
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.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Kelsey Christiansen	Approved by Environmental Specialist: 	
Title: Environmental Specialist	Approval Date: 5/8/15	Expiration Date:
E-mail Address: kelsey.christiansen@williams.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 04/07/15	Phone: 505-632-4606	

* Attach Additional Sheets If Necessary

#NCS 15 128 55 198

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Energy Minerals and Natural Resources

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Revised August 8, 2011

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

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

Approved by Environmental Specialist:

Signature:

Printed Name: Mitch Morris

Title: Environmental Specialist

E-mail Address: mitch.morris@williams.com

Date: 04/20/2015

Phone: 505-632-4708

Approval Date: 6/23/15

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

#NCS 15 17442299

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

AUG 03 2015

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: 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.
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LOCATION OF RELEASE

Unit Letter H	Section 23	Township 31N	Range 8W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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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: 		OIL CONSERVATION DIVISION	
Printed Name: Kelsey Christiansen		Approved by Environmental Specialist: 	
Title: Environmental Specialist	Approval Date: 8/12/15	Expiration Date:	
E-mail Address: kelsey.christiansen@williams.com	Conditions of Approval:		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

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 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.

Analytical Report

Lab Order 1507889

Date Reported: 7/29/2015

CLIENT: Williams Field Services

Client Sample ID: Trunk P Bottom

Project: Trunk P

Collection Date: 7/16/2015 10:50:00 AM

Lab ID: 1507889-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	7/27/2015 6:49:07 PM	20464
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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
	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
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	33	30		mg/Kg	20	7/27/2015 7:01:32 PM	20464
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 6
	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	MB-20464	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	20464	RunNo:	27773					
Prep Date:	7/27/2015	Analysis Date:	7/27/2015	SeqNo:	835871	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-20464	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	20464	RunNo:	27773					
Prep Date:	7/27/2015	Analysis Date:	7/27/2015	SeqNo:	835872	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	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	MB-20338	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	20338	RunNo:	27668					
Prep Date:	7/21/2015	Analysis Date:	7/22/2015	SeqNo:	831815	Units:	mg/Kg			
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	LCS-20338	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	20338	RunNo:	27701					
Prep Date:	7/21/2015	Analysis Date:	7/23/2015	SeqNo:	832534	Units:	mg/Kg			
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	MB-20352	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	20352	RunNo:	27685					
Prep Date:	7/21/2015	Analysis Date:	7/22/2015	SeqNo:	831825	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	910		1000		91.3	75.4	113			

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

Sample ID	1507889-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Trunk P Bottom	Batch ID:	20352	RunNo:	27685					
Prep Date:	7/21/2015	Analysis Date:	7/22/2015	SeqNo:	831834	Units:	mg/Kg			
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	1507889-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Trunk P Bottom	Batch ID:	20352	RunNo:	27685					
Prep Date:	7/21/2015	Analysis Date:	7/22/2015	SeqNo:	831835	Units:	mg/Kg			
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	MB-20352	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	20352	RunNo:	27685					
Prep Date:	7/21/2015	Analysis Date:	7/22/2015	SeqNo:	831843	Units:	mg/Kg			
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	LCS-20352	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	20352	RunNo:	27685					
Prep Date:	7/21/2015	Analysis Date:	7/22/2015	SeqNo:	831844	Units:	mg/Kg			
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	1507889-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	Trunk P Side Walls	Batch ID:	20352	RunNo:	27685					
Prep Date:	7/21/2015	Analysis Date:	7/22/2015	SeqNo:	831852	Units:	mg/Kg			
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	1507889-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	Trunk P Side Walls	Batch ID:	20352	RunNo:	27685					
Prep Date:	7/21/2015	Analysis Date:	7/22/2015	SeqNo:	831853	Units:	mg/Kg			
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



Completed By: Anne Thorne

7/21/2015



Reviewed By:



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: ☐ 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	1.3	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	
Client: <u>WFS</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Mailing Address: <u>188 CR 4900</u>		Project Name: <u>TRUNK P</u>	
<u>Bloomfield</u> <u>Farmington NM 87413</u>		Project #:	
Phone #: <u>505-215-7433</u>		Project Manager:	
email or Fax#: <u>Kelsey.Christensen@williams</u>		<u>Kelsey Christensen</u>	
QA/QC Package:		Sampler: <u>Morgan K. Williams, K. Skiff</u>	
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		<input checked="" type="checkbox"/> On Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Accreditation		Sample Temperature: <u>1.3</u>	
<input type="checkbox"/> NELAP <input type="checkbox"/> Other			
<input type="checkbox"/> EDD (Type)			

☒ Standard ☐ Rush

TRUNK P

Project Manager:

Kelsey Christensen

Sampler: ~~Agarwal~~ Kishor M. Kc Sk/H

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.3

[illegible]

Date:	Time:	Relinquished by:
7-17-15	6:50	Mike Stzhl

Received by:	Date	Time
<i>Maria Z...</i>	7-17-15	06:50

Date:	Time:	Relinquished by:
1/17/15	2:00	Mary Fillion

Received by:	Date	Time
Christine, Waack	7/29/18	1800



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

	X	X	BTEX + MTBE + TMB's (8021)
			BTEX + MTBE + TPH (Gas only)
	X	X	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 ₃ , NO ₂ , PO ₄ , SO ₄)
			8081 Pesticides / 8082 PCB's
			8260B (VOA)
			8270 (Semi-VOA)
	X	X	C-Halide
			Air Bubbles (Y or N)

Air Bubbles (Y or N)

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.

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
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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 25th, 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 27th, 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.

OIL CONSERVATION DIVISION

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

* Attach Additional Sheets If Necessary

#NCS 15244 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
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Form C-141
Revised August 8, 2011

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accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report


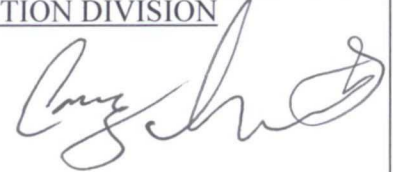
Name of Company: Williams Four Corners LLC	Contact: Jana Franchini
Address: 188 CR 4900, Bloomfield, NM 87413	Telephone No.: (505) 634-4951
Facility Name: Milagro Cogeneration & Gas Plant	Facility Type: Facility
Surface Owner: Williams	Mineral Owner
API No.	

LOCATION OF RELEASE

Unit Letter O	Section 12	Township 29N	Range 11W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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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:  Printed Name: Kelsey Christiansen		<u>OIL CONSERVATION DIVISION</u> Approved by Environmental Specialist: 
Title: Environmental Specialist	Approval Date: <u>8/12/15</u>	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 15244 36873
2

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
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State of New Mexico
Energy Minerals and Natural Resources

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

AUG 21 2015

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

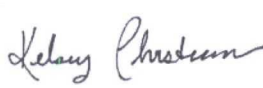

Name of Company Williams Four Corners LLC	Contact Kelsey Christiansen
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4606
Facility Name Com Hale 9E	Facility Type Pipeline
Surface Owner Bureau of Land Management	Mineral Owner
API No.	

LOCATION OF RELEASE

Unit Letter C	Section 15	Township 26N	Range 8W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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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.		
 Signature:		OIL CONSERVATION DIVISION  Approved by Environmental Specialist:
Printed Name: Kelsey Christiansen		Approval Date: <u>9/2/15</u>
Title: Environmental Specialist		Expiration Date:
E-mail Address: kelsey.christiansen@williams.com		Conditions of Approval:
Date: 08/18/2015 Phone: 505-632-4606		Attached <input type="checkbox"/>

* 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

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 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 qualifers 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

Analytical Report

Lab Order 1508675

Date Reported: 8/17/2015

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
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	8/14/2015 12:15:37 PM	20806
EPA METHOD 8015D MOD: GASOLINE RANGE							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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							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
EPA METHOD 8260B: VOLATILES SHORT LIST							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.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 6
	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	MB-20806	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	20806	RunNo:	28219					
Prep Date:	8/14/2015	Analysis Date:	8/14/2015	SeqNo:	850587	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-20806	SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID: 20806			RunNo: 28219					
Prep Date:	8/14/2015	Analysis Date: 8/14/2015			SeqNo: 850588		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	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	MB-20793		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 20793		RunNo: 28190					
Prep Date:	8/14/2015		Analysis Date: 8/14/2015		SeqNo: 849641		Units: mg/Kg			
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	LCS-20793		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 20793		RunNo: 28190					
Prep Date:	8/14/2015		Analysis Date: 8/14/2015		SeqNo: 849645		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.5	57.4	139			
Surr: DNOP	5.0		5.000		99.3	57.9	140			

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 |
| 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	rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	R28204	RunNo:	28204					
Prep Date:		Analysis Date:	8/14/2015	SeqNo:	852314	Units:	mg/Kg			
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	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	R28204	RunNo:	28204					
Prep Date:		Analysis Date:	8/14/2015	SeqNo:	852315	Units:	mg/Kg			
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	1508675-001ams	SampType:	MS	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:	852316	Units:	mg/Kg			
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	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
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.	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	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	rb1	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	R28204	RunNo:	28204					
Prep Date:		Analysis Date:	8/15/2015	SeqNo:	852409	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	490		500.0		98.5	70	130			

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	R28204	RunNo:	28204					
Prep Date:		Analysis Date:	8/14/2015	SeqNo:	852410	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	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?
(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:

☐ 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			

Turn-Around Time:	
<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush <u>8-14-15</u>
Project Name:	
<u>CON HGLC #2E</u>	
Project #:	

Client: WFS

☐ Standard ☒ Rush 8-14-15-

Mailing Address: 188 CR 4900
Bloom Field Nm 87413

Project Name:

CON Halc #2 E

Project #:

Phone #: 505-215-7433

email or Fax#: Kelsey.christensen@wildprose.com

Project Manager:

QA/QC Package:

Kelsey Christiansen

☐ Standard ☐ Level 4 (Full Validation)

Sampler: *Morgan Killian*

Accreditation

On Ice: ☒ Yes ☐ No☐ NELAP ☐ Other _____

Sample Temperature: 34

☐ EDD (Type) _____[illegible]

Date: 1/31/15	Time: 1600	Relinquished by: Mory Lillian
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Received by: Ant Walz Date 8/13/15 Time 1600

Date:	Time:	Relinquished by:
5/13/15	2:15	Christ Warden

Received by: Am Chalugos Date: 08/14/15 Time: 0700

Remarks:



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)	X
	BTEX + MTBE + TPH (Gas only)	
	TPH 8015B (GRO / DRO / MRO)	X
	TPH (Method 418.1)	
	EDB (Method 504.1)	
	PAH's (8310 or 8270 SIMS)	
	RCRA 8 Metals	
	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	
	8081 Pesticides / 8082 PCB's	
	8260B (VOA)	
	8270 (Semi-VOA)	
	<i>ch/ride</i>	X
	Air Bubbles (Y or N)	

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.