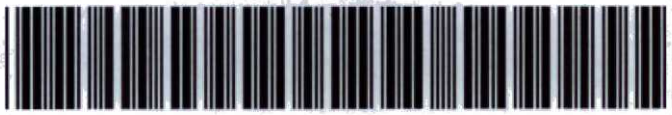
AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pJK1424834298

3RP - 1014

Williams Four Corners, LLC

11/3/2016

3R-1014

Release Report/ General Correspondence

Williams RA

Date: Jul-Sep 2016

45

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: Michael Hannan
Address: 1755 Arroyo Dr., Bloomfield, NM 87413	Telephone No.: (505) 632-4807
Facility Name: 29-6#2 Central Delivery Point	Facility Type: Central Delivery Point

Surface Owner: Private	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
A	19	29N	6W					Rio Arriba

Latitude 36.74497° N **Longitude** -107.44417° W

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 5 bbls	Volume Recovered: 0 bbls
Source of Release: Tank	Date and Hour of Occurrence: 08/5/2016 5:00 P.M.	Date and Hour of Discovery: 08/17/2016 12:00 P.M.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Cory Smith via phone call	
By Whom? Mitch Morris	Date and Hour: 8/17/2016 3:00 PM	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume Impacting the Watercourse. 5 bbls	

OIL CONS. DIV DIST. 3
AUG 29 2016

If a Watercourse was Impacted, Describe Fully.*

The water migrated approximately ½ mile to a livestock pond. The livestock pond is located at 36.752100, -107.445998. The water from the storm event was not observed to have migrated past the livestock pond.

Describe Cause of Problem and Remedial Action Taken.*

Recent heavy rains washed out the berm that was constructed to control potential surface run-on into a below-grade tank containment. The surface water run-on filled the containment and then washed out another portion of the berm causing the release of water from the secondary containment area. The water released from the secondary containment was a mixture of rain water and produced water tank overflow. A surface water sample was collected from the livestock pond. Soil samples were collected from the flow path area. Surface water results have been received and show that all results were below applicable water quality standards (see attached). Confirmation soil sample results are pending and will be submitted with the final C-141.

Describe Area Affected and Cleanup Action Taken.*

Staining was observed at a few locations along the surface water flow path toward the livestock pond. To date, Williams removed the stained vegetation debris observed along the flow path as well a minor amount of stained soil. Williams is awaiting the confirmation soil analytical results to determine if additional remediation is required. The below-grade tank is undergoing maintenance to remove sediment that washed around the single-wall below-grade tank. A soil sample was collected on August 24, 2016 from below the tank during maintenance activities.

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: Michael Hannan		
Title: Engineer, Sr.	Approval Date: 9/16/16	Expiration Date:
E-mail Address: michael.hannan@williams.com	Conditions of Approval:	Attached ☐
Date: 08/24/2016 Phone: (505) 632-4807	Additional Remediation Require At BGT Location Test For TPH (DRO-MRO-GRO) & Btex.	

* Attach Additional Sheets If Necessary

#NCS1626049708

(5)

Analytical Report
Lab Order **1608B70**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Project: 29-6 #2 Release Response
Lab ID: 1608B70-001 **Matrix:** AQUEOUS

Client Sample ID: Pond-1
Collection Date: 8/18/2016 1:30:00 PM
Received Date: 8/19/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Benzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Toluene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Ethylbenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,3,5-Trimethylbenzene	1.5	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Naphthalene	ND	2.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1-Methylnaphthalene	ND	4.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
2-Methylnaphthalene	ND	4.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Acetone	ND	10		µg/L	1	8/19/2016 7:38:00 PM	R36641
Bromobenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Bromodichloromethane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Bromoform	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Bromomethane	ND	3.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
2-Butanone	ND	10		µg/L	1	8/19/2016 7:38:00 PM	R36641
Carbon disulfide	ND	10		µg/L	1	8/19/2016 7:38:00 PM	R36641
Carbon Tetrachloride	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Chlorobenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Chloroethane	ND	2.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Chloroform	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Chloromethane	ND	3.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
2-Chlorotoluene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
4-Chlorotoluene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
cis-1,2-DCE	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Dibromochloromethane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Dibromomethane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,1-Dichloroethane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,1-Dichloroethene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,2-Dichloropropane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,3-Dichloropropane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
2,2-Dichloropropane	ND	2.0		µg/L	1	8/19/2016 7:38:00 PM	R36641

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

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
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Lab ID: 1608B70-001
Matrix: AQUEOUS
Received Date: 8/19/2016 7:30:00 AM

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EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
1,1-Dichloropropene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Hexachlorobutadiene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
2-Hexanone	ND	10		µg/L	1	8/19/2016 7:38:00 PM	R36641
Isopropylbenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
4-Isopropyltoluene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
4-Methyl-2-pentanone	ND	10		µg/L	1	8/19/2016 7:38:00 PM	R36641
Methylene Chloride	ND	3.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
n-Butylbenzene	ND	3.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
n-Propylbenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
sec-Butylbenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Styrene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
tert-Butylbenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
trans-1,2-DCE	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Trichlorofluoromethane	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Vinyl chloride	ND	1.0		µg/L	1	8/19/2016 7:38:00 PM	R36641
Xylenes, Total	1.7	1.5		µg/L	1	8/19/2016 7:38:00 PM	R36641
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%Rec	1	8/19/2016 7:38:00 PM	R36641
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	8/19/2016 7:38:00 PM	R36641
Surr: Dibromofluoromethane	97.1	70-130		%Rec	1	8/19/2016 7:38:00 PM	R36641
Surr: Toluene-d8	97.5	70-130		%Rec	1	8/19/2016 7:38:00 PM	R36641

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners
Client Sample ID: Trip Blank
Project: 29-6 #2 Release Response
Collection Date:
Lab ID: 1608B70-002
Matrix: AQUEOUS
Received Date: 8/19/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Benzene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Toluene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Ethylbenzene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Naphthalene	ND	2.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1-Methylnaphthalene	ND	4.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
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Bromomethane	ND	3.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
2-Butanone	ND	10		µg/L	1	8/19/2016 6:51:00 PM	R36641
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1,1-Dichloroethane	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,1-Dichloroethene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,2-Dichloropropane	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,3-Dichloropropane	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
2,2-Dichloropropane	ND	2.0		µg/L	1	8/19/2016 6:51:00 PM	R36641

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Project: 29-6 #2 Release Response
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Lab ID: 1608B70-002
Matrix: AQUEOUS
Received Date: 8/19/2016 7:30:00 AM

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2-Hexanone	ND	10		µg/L	1	8/19/2016 6:51:00 PM	R36641
Isopropylbenzene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
4-Isopropyltoluene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
4-Methyl-2-pentanone	ND	10		µg/L	1	8/19/2016 6:51:00 PM	R36641
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sec-Butylbenzene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Styrene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
tert-Butylbenzene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
trans-1,2-DCE	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
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1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Trichlorofluoromethane	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Vinyl chloride	ND	1.0		µg/L	1	8/19/2016 6:51:00 PM	R36641
Xylenes, Total	ND	1.5		µg/L	1	8/19/2016 6:51:00 PM	R36641
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	1	8/19/2016 6:51:00 PM	R36641
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	8/19/2016 6:51:00 PM	R36641
Surr: Dibromofluoromethane	98.8	70-130		%Rec	1	8/19/2016 6:51:00 PM	R36641
Surr: Toluene-d8	97.3	70-130		%Rec	1	8/19/2016 6:51:00 PM	R36641

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

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OIL CONS. DIV DIST. 3

MAY 28 2015

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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 Q Pipeline	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
H	29	26N	8W					Rio Arriba

Latitude 36.45922° N **Longitude** -107.700965° W

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 2,528 MCF Natural Gas	Volume Recovered: 0 MCF Natural gas
Source of Release: Pinhole	Date and Hour of Occurrence: Estimated 05/15/15	Date and Hour of Discovery: 05/22/15 at 08:00 AM MST
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Cory Smith, NMOCD Shari Ketcham, BLM	
By Whom? Kelsey Christiansen	Date and Hour: 05/22/2015 at 12:30 PM MST	
Was a Watercourse Reached? ☐ Yes ☒ 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 May 22, 2015 Williams personnel discovered a leak of natural gas on the Trunk Q pipeline due to corrosion. The pipeline was repaired safely, initially blowdown and purged. Approximately 2,528 MCF of natural gas was released.

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.

Kelsey Christiansen

Signature:

Printed Name: Kelsey Christiansen

Title: Environmental Specialist

E-mail Address: kelsey.christiansen@williams.com

Date: 05/22/15 Phone: (505) 632-4606

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 8/4/16 Expiration Date:

Conditions of Approval:
Soil samples for TPH, BTEX, chlorides

Attached ☐

* Attach Additional Sheets If Necessary

#NCS 1621738244

1

OIL CONS. DIV DIST. 3

AUG 11 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: Kelsey Christiansen
Address: 188 CR 4900, Bloomfield, NM 87413	Telephone No.: (505) 632-4606
Facility Name: Trunk Q Pipeline	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
H	29	26N	8W					Rio Arriba

Latitude 36.45922° N **Longitude** -107.700965° W

NATURE OF RELEASE

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Source of Release: Pinhole	Date and Hour of Occurrence: Estimated 05/15/15	Date and Hour of Discovery: 05/22/15 at 08:00 AM MST
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Cory Smith, NMOCD Shari Ketcham, BLM	
By Whom? Kelsey Christiansen	Date and Hour: 05/22/2015 at 12:30 PM MST	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

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Signature: Kelsey Christiansen

Printed Name: Kelsey Christiansen

Title: Environmental Specialist

E-mail Address: kelsey.christiansen@williams.com

Date: 05/22/15 Phone: (505) 632-4606

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 8/4/16 Expiration Date:

Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary

NCS 1621738244

(9)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 17, 2015

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

RE: Trunk Q 5-Point Composite 0'-5'

OrderNo.: 1507407

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/10/2015 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1507407**
Date Reported: **7/17/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Trunk Q 5-Point Composite 0'-5'
Lab ID: 1507407-001 **Matrix:** SOIL

Client Sample ID: Trunk Q 5-Point Comp 0'-5'
Collection Date: 7/9/2015 9:30:00 AM
Received Date: 7/10/2015 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	7/15/2015 2:38:19 PM	20264
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/13/2015 5:50:49 PM	20195
Surr: DNOP	107	57.9-140		%REC	1	7/13/2015 5:50:49 PM	20195
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2015 10:28:46 AM	20202
Surr: BFB	92.2	75.4-113		%REC	1	7/14/2015 10:28:46 AM	20202
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.048		mg/Kg	1	7/14/2015 10:28:46 AM	20202
Toluene	ND	0.048		mg/Kg	1	7/14/2015 10:28:46 AM	20202
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2015 10:28:46 AM	20202
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2015 10:28:46 AM	20202
Surr: 4-Bromofluorobenzene	99.3	80-120		%REC	1	7/14/2015 10:28:46 AM	20202

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
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
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1507407**

17-Jul-15

Client: Williams Field Services

Project: Trunk Q 5-Point Composite 0'-5'

Sample ID	MB-20264	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS	Batch ID:	20264	RunNo:	27515				
Prep Date:	7/15/2015	Analysis Date:	7/15/2015	SeqNo:	826176	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-20264	SampType:	LCS	TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS	Batch ID:	20264	RunNo:	27515				
Prep Date:	7/15/2015	Analysis Date:	7/15/2015	SeqNo:	826177	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1507407**

17-Jul-15

Client: Williams Field Services

Project: Trunk Q 5-Point Composite 0'-5'

Sample ID	MB-20195	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	20195		RunNo:	27441				
Prep Date:	7/10/2015	Analysis Date:	7/13/2015		SeqNo:	823961	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	9.8		10.00		97.6	57.9	140			

Sample ID	LCS-20195	SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS	Batch ID:	20195		RunNo:	27441				
Prep Date:	7/10/2015	Analysis Date:	7/13/2015		SeqNo:	823962	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.8	57.4	139			
Surr: DNOP	4.4		5.000		88.1	57.9	140			

Sample ID	1507407-001AMS	SampType:	MS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	Trunk Q 5-Point Co	Batch ID:	20195		RunNo:	27441				
Prep Date:	7/10/2015	Analysis Date:	7/13/2015		SeqNo:	823964	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	67	9.9	49.46	0	135	42.3	146			
Surr: DNOP	5.3		4.946		107	57.9	140			

Sample ID	1507407-001AMSD	SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	Trunk Q 5-Point Co	Batch ID:	20195		RunNo:	27441				
Prep Date:	7/10/2015	Analysis Date:	7/13/2015		SeqNo:	823965	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.10	0	107	42.3	146	21.5	28.9	
Surr: DNOP	5.0		5.010		101	57.9	140	0	0	

Sample ID	MB-20262	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	20262		RunNo:	27509				
Prep Date:	7/15/2015	Analysis Date:	7/15/2015		SeqNo:	826580	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		96.6	57.9	140			

Sample ID	LCS-20262	SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS	Batch ID:	20262		RunNo:	27509				
Prep Date:	7/15/2015	Analysis Date:	7/15/2015		SeqNo:	826581	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.3	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1507407**

17-Jul-15

Client: Williams Field Services

Project: Trunk Q 5-Point Composite 0'-5'

Sample ID	MB-20202	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	20202		RunNo:	27497				
Prep Date:	7/10/2015	Analysis Date:	7/14/2015		SeqNo:	825060	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	920		1000		92.0	75.4	113			

Sample ID	LCS-20202	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS	Batch ID:	20202		RunNo:	27497				
Prep Date:	7/10/2015	Analysis Date:	7/14/2015		SeqNo:	825061	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	64	130			
Surr: BFB	1000		1000		99.8	75.4	113			

Sample ID	1507407-001AMS	SampType:	MS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	Trunk Q 5-Point Co	Batch ID:	20202		RunNo:	27497				
Prep Date:	7/10/2015	Analysis Date:	7/14/2015		SeqNo:	825063	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	23.95	0	97.4	62.5	151			
Surr: BFB	950		957.9		99.6	75.4	113			

Sample ID	1507407-001AMSD	SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	Trunk Q 5-Point Co	Batch ID:	20202		RunNo:	27497				
Prep Date:	7/10/2015	Analysis Date:	7/14/2015		SeqNo:	825064	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	23.95	0	97.5	62.5	151	0.0821	22.1	
Surr: BFB	950		957.9		99.6	75.4	113	0	0	

Sample ID	MB-20225	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	20225		RunNo:	27497				
Prep Date:	7/13/2015	Analysis Date:	7/14/2015		SeqNo:	825115	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		90.8	75.4	113			

Sample ID	LCS-20225	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS	Batch ID:	20225		RunNo:	27497				
Prep Date:	7/13/2015	Analysis Date:	7/14/2015		SeqNo:	825116	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		99.8	75.4	113			

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1507407**

17-Jul-15

Client: Williams Field Services

Project: Trunk Q 5-Point Composite 0'-5'

Sample ID	MB-20202	SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS	Batch ID:	20202		RunNo:	27497				
Prep Date:	7/10/2015	Analysis Date:	7/14/2015		SeqNo:	825144	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	1.0		1.000		99.5	80	120			

Sample ID	LCS-20202	SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	LCSS	Batch ID:	20202		RunNo:	27497				
Prep Date:	7/10/2015	Analysis Date:	7/14/2015		SeqNo:	825145	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	101	76.6	128			
Toluene	0.98	0.050	1.000	0	97.9	75	124			
Ethylbenzene	1.0	0.050	1.000	0	102	79.5	126			
Xylenes, Total	3.0	0.10	3.000	0	101	78.8	124			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	MB-20225	SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS	Batch ID:	20225		RunNo:	27497				
Prep Date:	7/13/2015	Analysis Date:	7/14/2015		SeqNo:	825158	Units:	%REC		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		97.9	80	120			

Sample ID	LCS-20225	SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	LCSS	Batch ID:	20225		RunNo:	27497				
Prep Date:	7/13/2015	Analysis Date:	7/14/2015		SeqNo:	825159	Units:	%REC		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

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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
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
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S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1507407 RcptNo: 1

Received by/date: 07/10/15

Logged By: Lindsay Mangin 7/10/2015 7:00:00 AM

Completed By: Lindsay Mangin 7/10/2015 7:23:57 AM

Reviewed By: CS 07/10/15

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	3.7	Good	Yes			

Chain-of-Custody Record

Client: WFS

Mailing Address: 188 CR 4900
Bloomfield NM 87413

Phone #: 505-215-7433

email or Fax#: ~~chf~~ kelsey.christensen@williams.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: TRUNK Q 5 Point composite 0-5'

Project #:

Project Manager: Kelsey Christensen

Sampler: Morgan Killion

On Ice: ☑ Yes ☐ No

Sample Temperature: 3.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1507407	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
7/9/15	09:30	Soil	TRUNK Q 5 Point comp 0-5'	1-402	Ice	-001	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/9/15	1050	Morgan Killion	Kristen Walters	7/9/15	1050
7/9/15	1815	Kristen Walters		07/10/15	0700

Remarks:

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

OIL CONS. DIV DIST. 3

AUG 18 2016

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 Mitch Morris
Address 1755 Arroyo Drive	Telephone No. 505-632-4708
Facility Name Lateral E-3	Facility Type Pipeline

Surface Owner Jicarilla Apache Nation	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
F	13	27N	3W					Rio Arriba

Latitude 36.575383° N **Longitude** -107.098583° W

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release Estimated at 1646.76 MCF	Volume Recovered Estimated at 0 MCF
Source of Release Pinhole leak in pipeline	Date and Hour of Occurrence 08/09/2016, 10:00 AM MST	Date and Hour of Discovery 08/09/2016, 10:00 AM MST
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Cory Smith via Telephone	
By Whom? Mitch Morris	Date and Hour 08/09/2016 ~1:30 pm	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse. TBD – This is a natural gas release and impacts to soil will be determined upon excavation and repair.	

If a Watercourse was Impacted, Describe Fully.*

TBD – This is a natural gas release and impacts to soil will be determined upon excavation and repair.

Describe Cause of Problem and Remedial Action Taken.*

A line survey along Lateral E-3 identified a pipeline leak located in a dry wash. No liquids were observed at the ground surface. The pipeline has been de-pressurized/isolated and is awaiting repair.

Describe Area Affected and Cleanup Action Taken.*

Initial excavation and repair of the pipeline is scheduled for 08-12-2016.

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.

Mitch Morris Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: Mitch Morris	
Title: Environmental Specialist	Approval Date: 8/22/16 Expiration Date:
E-mail Address: Mitch.Morris@williams.com	Conditions of Approval: Test Soils For TPH (DRO-GRO-MRO) Btex, Test water For Cation/Anion and 8026 Volitls. Attached ☐
Date: 08/12/2016 Phone: 505-632-4708	

* Attach Additional Sheets If Necessary

#NCS 1622536973

(1)

OIL CONS. DIV DIST. 3

JUL 22 2016

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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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

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 Mitch Morris
Address 1755 Arroyo Drive	Telephone No. 505-632-4708
Facility Name Lateral H-20	Facility Type Pipeline

Surface Owner Jicarilla Apache Nation	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
F	13	26N	5W					Rio Arriba

Latitude 36.489756° N **Longitude** -107.315292° W

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Estimated at 5 BBL	Volume Recovered Estimated at 5 BBL
Source of Release Pinhole leak in pipeline	Date and Hour of Occurrence 05/24/2016, 10:00 AM MST	Date and Hour of Discovery 05/24/2016, 10:00 AM MST
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

Describe Cause of Problem and Remedial Action Taken.*

While performing routine duties, Williams inspector discovered a pipeline leak. The leak was initially determined to be gaseous only, but historically impacted soil was discovered during excavation.

Describe Area Affected and Cleanup Action Taken.*

Approximately 60 cubic yards of impacted soil was remediated in direct coordination with the Jicarilla Apache Tribe. Backfill approval was given via Hobson Sandoval with the Jicarilla Apache Tribe. Attached are the final soil analytical results.

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.

Mitch Morris Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: Mitch Morris	
Title: Environmental Specialist	Approval Date: 8/23/16 Expiration Date:
E-mail Address: Mitch.Morris@williams.com	Conditions of Approval: — Attached ☐
Date: 07/019/2016 Phone: 505-632-4708	

* Attach Additional Sheets If Necessary

#NCS 1C2363040J

(11)

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

July 18, 2016

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

RE: Later 20 Line Leak OrderNo.: 1607691

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/15/2016 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1607691**
Date Reported: **7/18/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Later 20 Line Leak
Lab ID: 1607691-001 **Matrix:** MEOH (SOIL)

Client Sample ID: Lat H 20 Sidewall Composite
Collection Date: 7/14/2016 12:50:00 PM
Received Date: 7/15/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst: **TOM**	
Petroleum Hydrocarbons, TR	150	20		mg/Kg	1	7/15/2016 12:00:00 PM	26417
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	85	30		mg/Kg	20	7/15/2016 11:30:10 AM	26445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	64	10		mg/Kg	1	7/15/2016 11:08:49 AM	26416
Surr: DNOP	91.5	70-130		%Rec	1	7/15/2016 11:08:49 AM	26416
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	27	8.2		mg/Kg	2	7/15/2016 1:09:28 PM	A35730
Surr: BFB	197	80-120	S	%Rec	2	7/15/2016 1:09:28 PM	A35730
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.041		mg/Kg	2	7/15/2016 1:09:28 PM	B35730
Toluene	0.088	0.082		mg/Kg	2	7/16/2016 2:58:13 PM	A35745
Ethylbenzene	0.12	0.082		mg/Kg	2	7/15/2016 1:09:28 PM	B35730
Xylenes, Total	1.5	0.16		mg/Kg	2	7/15/2016 1:09:28 PM	B35730
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	2	7/15/2016 1:09:28 PM	B35730

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Later 20 Line Leak
Lab ID: 1607691-002 **Matrix:** MEOH (SOIL)

Client Sample ID: Lat H 20 Bottom Composite
Collection Date: 7/14/2016 12:55:00 PM
Received Date: 7/15/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst: **TOM**	
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	7/15/2016 12:00:00 PM	26417
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	77	30		mg/Kg	20	7/15/2016 11:42:35 AM	26445
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/15/2016 11:30:30 AM	26416
Surr: DNOP	92.1	70-130		%Rec	1	7/15/2016 11:30:30 AM	26416
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/15/2016 11:07:26 AM	A35730
Surr: BFB	88.1	80-120		%Rec	1	7/15/2016 11:07:26 AM	A35730
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	7/15/2016 11:07:26 AM	B35730
Toluene	ND	0.038		mg/Kg	1	7/16/2016 3:21:43 PM	A35745
Ethylbenzene	ND	0.038		mg/Kg	1	7/15/2016 11:07:26 AM	B35730
Xylenes, Total	ND	0.076		mg/Kg	1	7/15/2016 11:07:26 AM	B35730
Surr: 4-Bromofluorobenzene	95.1	80-120		%Rec	1	7/15/2016 11:07:26 AM	B35730

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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607691**

18-Jul-16

Client: Williams Field Services

Project: Later 20 Line Leak

Sample ID	MB-26445	SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS	Batch ID:	26445		RunNo:	35763				
Prep Date:	7/15/2016	Analysis Date:	7/15/2016		SeqNo:	1106514	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-26445	SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS	Batch ID:	26445		RunNo:	35763				
Prep Date:	7/15/2016	Analysis Date:	7/15/2016		SeqNo:	1106515	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607691**

18-Jul-16

Client: Williams Field Services

Project: Later 20 Line Leak

Sample ID **MB-26417**	SampType: **MBLK**	TestCode: **EPA Method 418.1: TPH**
Client ID: **PBS**	Batch ID: **26417**	RunNo: **35727**
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**	SeqNo: **1105628** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID **LCS-26417**	SampType: **LCS**	TestCode: **EPA Method 418.1: TPH**
Client ID: **LCSS**	Batch ID: **26417**	RunNo: **35727**
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**	SeqNo: **1105629** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	96	20	100.0	0	96.3	80.7	121			

Sample ID **LCSD-26417**	SampType: **LCSD**	TestCode: **EPA Method 418.1: TPH**
Client ID: **LCSS02**	Batch ID: **26417**	RunNo: **35727**
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**	SeqNo: **1105630** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	95	20	100.0	0	95.1	80.7	121	1.33	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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607691**

18-Jul-16

Client: Williams Field Services

Project: Later 20 Line Leak

Sample ID **LCS-26416**	SampType: **LCS**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **26416**			RunNo: **35729**					
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**			SeqNo: **1105693**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.5	62.6	124			
Surr: DNOP	4.0		5.000		79.1	70	130			

Sample ID **MB-26416**	SampType: **MBLK**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **26416**			RunNo: **35729**					
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**			SeqNo: **1105694**		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	8.8		10.00		88.1	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607691**

18-Jul-16

Client: Williams Field Services

Project: Later 20 Line Leak

Sample ID	2.5UG GRO LCS	SampType:	LCS			TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	LCSS	Batch ID:	A35730			RunNo:	35730			
Prep Date:		Analysis Date:	7/15/2016			SeqNo:	1105921	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	80	120			
Surr: BFB	930		1000		92.8	80	120			

Sample ID	1607691-002AMS	SampType:	MS			TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	Lat H 20 Bottom Co	Batch ID:	A35730			RunNo:	35730			
Prep Date:		Analysis Date:	7/15/2016			SeqNo:	1105922	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	3.8	18.90	0	119	59.3	143			
Surr: BFB	740		755.9		97.6	80	120			

Sample ID	1607691-002AMSD	SampType:	MSD			TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	Lat H 20 Bottom Co	Batch ID:	A35730			RunNo:	35730			
Prep Date:		Analysis Date:	7/15/2016			SeqNo:	1105923	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.8	18.90	0	108	59.3	143	9.74	20	
Surr: BFB	700		755.9		92.1	80	120	0	0	

Sample ID	MB-26404	SampType:	MBLK			TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	PBS	Batch ID:	26404			RunNo:	35730			
Prep Date:	7/14/2016	Analysis Date:	7/15/2016			SeqNo:	1105939	Units:	%Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		87.5	80	120			

Sample ID	LCS-26404	SampType:	LCS			TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	LCSS	Batch ID:	26404			RunNo:	35730			
Prep Date:	7/14/2016	Analysis Date:	7/15/2016			SeqNo:	1105940	Units:	%Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		95.8	80	120			

Sample ID	B32	SampType:	MBLK			TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	PBS	Batch ID:	A35730			RunNo:	35730			
Prep Date:		Analysis Date:	7/15/2016			SeqNo:	1106031	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	890		1000		89.4	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607691**

18-Jul-16

Client: Williams Field Services

Project: Later 20 Line Leak

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B35730**	RunNo: **35730**
Prep Date:	Analysis Date: **7/15/2016**	SeqNo: **1105946** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.83		1.000		83.5	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B35730**	RunNo: **35730**
Prep Date:	Analysis Date: **7/15/2016**	SeqNo: **1105947** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	75.3	123			
Ethylbenzene	0.95	0.050	1.000	0	94.8	82.8	121			
Xylenes, Total	2.8	0.10	3.000	0	95.0	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **A35745**	RunNo: **35745**
Prep Date:	Analysis Date: **7/16/2016**	SeqNo: **1106018** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	0.050								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **A35745**	RunNo: **35745**
Prep Date:	Analysis Date: **7/16/2016**	SeqNo: **1106019** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.97	0.050	1.000	0	97.1	80	124			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1607691 RcptNo: 1

Received by/date: 07/15/16

Logged By: Lindsay Mangin 7/15/2016 7:50:00 AM

Completed By: Lindsay Mangin 7/15/2016 8:13:22 AM

Reviewed By: 07/15/16

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	1.4	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: WFS	Turn-Around Time: Same day ☐ Standard ☑ Rush 7-15-16
	Project Name: Later #-20 Line Leak
Mailing Address: 188 CR4900 Bloomfield NM 87413	Project #:
Phone #: 505-632-4708	
Email or Fax#: mitch.morris@williams.com	Project Manager: mitch morris
QA/QC Package: Standard ☐ Level 4 (Full Validation)	Sampler: Morgan Killion
Accreditation: NELAP ☐ Other	On Ice: ☐ Yes ☐ No
EDD (Type)	Sample Temperature: 1.4

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1607691	BTEX + ~~MTBE~~ + ~~TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
7/14/16	1250	Soil	Lat #-20 Sidewall composite	1-4oz	Cool	-001	X		X	X								X				
7/14/16	1255	Soil	Lat #-20 Bottom composite	1-4oz	Cool	-002	X		X	X								X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/14	1550			7/14/16	1550
7/14/16	1951			07/15/16	0750

Remarks:

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

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1625 N. French Dr., Hobbs, NM 88240
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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 Matt Webre
Address 1755 Arroyo Drive, Bloomfield, NM 87413	Telephone No. 505-632-4442
Facility Name 32-8 #2	Facility Type Compressor Station

Surface Owner Private	Mineral Owner NA	API No. NA

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	27	32N	8W					San Juan

Latitude 36.956845 **Longitude** -107.663938

NATURE OF RELEASE

Type of Release Lube Oil	Volume of Release 500 gallons	Volume Recovered 0 gallons
Source of Release Tank Sight Glass	Date and Hour of Occurrence 08/01/2016, 08:00 AM	Date and Hour of Discovery 08/01/2016, 08:00 AM
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3
SEP 15 2016

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A sight glass broke on a bulk lube oil storage tank. The lube oil was contained within the secondary containment area. The containment is unlined. The initial reported release volume was reported to be below 5 bbls. An investigation was performed by LT Environmental on August 18, 2016. Following completion of the investigation, it was determined that the volume of lube oil released was approximately 500 gallons. The cause of the sight glass break is unknown.

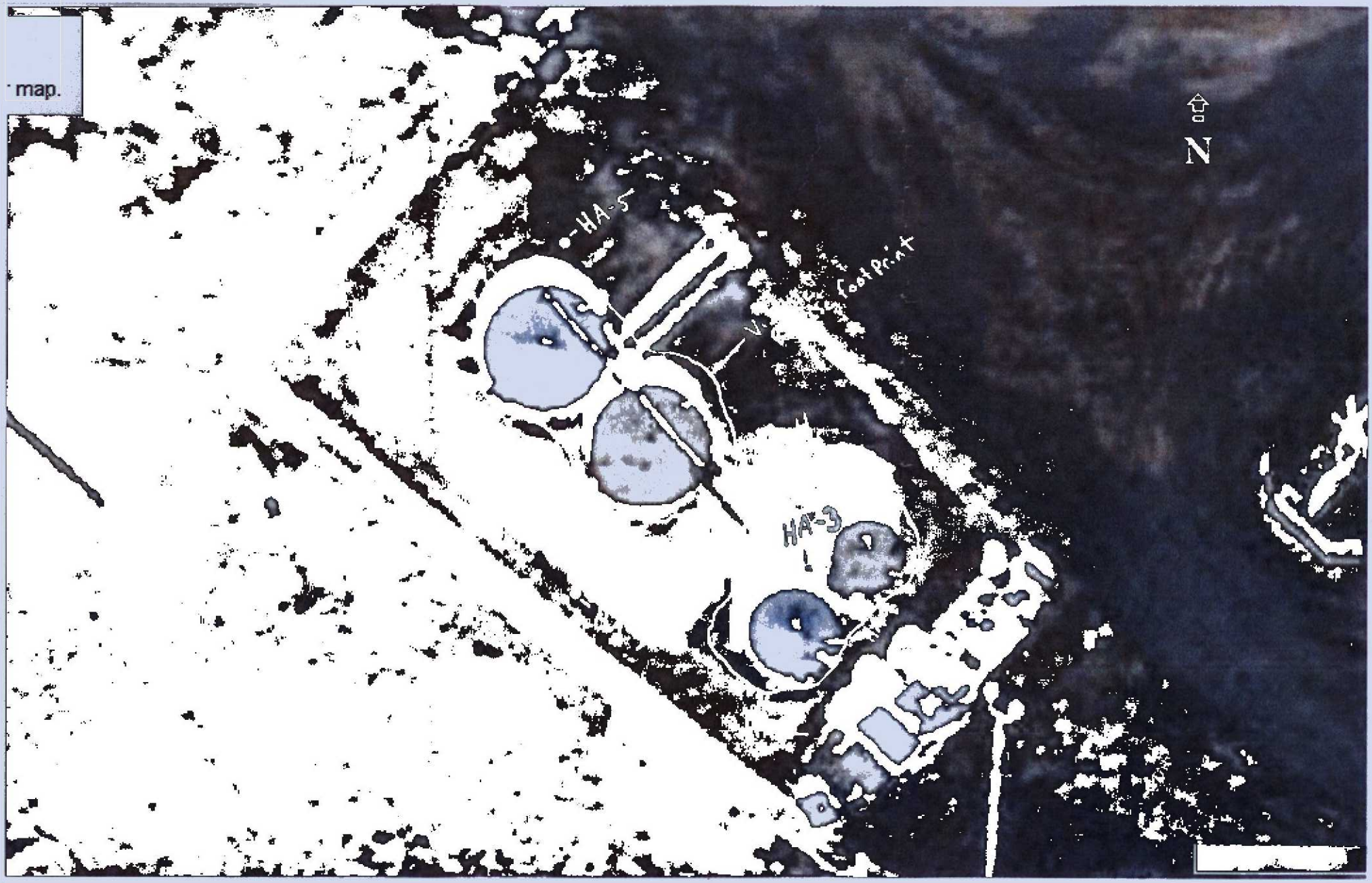
Describe Area Affected and Cleanup Action Taken.*
The attached figure documents the extent of the visible lube oil impacts during completion of the investigation. Seven hand auger borings (HA-1 through HA-7) were completed to evaluate the extent of impacts. It appears that heavy precipitation events following the release may have contributed to further migration of visible lube oil impacts within containment. The hand auger borings indicated the presence of a clay layer 19-inches below the containment floor that was non-impacted (impacts observed in soils above 19-inches). Remediation activities will be completed in the future to remove impacted soils from the containment. Confirmation soil samples from the excavation floor and sidewalls will be collected to demonstrate cleanup concentrations are achieved.

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: Matt Webre	Approved by Environmental Specialist:
Title: Environmental Specialist	Approval Date: 9/21/2016 Expiration Date:
E-mail Address: matt.webre@williams.com	Conditions of Approval: NCS1602605336S Attached ☐
Date: 9/8/2016 Phone: 505-632-4442	Sample Area TRH, BTEX include MRO

* Attach Additional Sheets If Necessary

5


map.
HA-5
Foot Print
HA-3
N

Webre, Matt

From: Webre, Matt
Sent: Friday, August 19, 2016 3:51 PM
To: Jackson, Steve; Sandoval, Monica; Price, Andy
Subject: FW: 32-8 #2 subsurface investigation summary
Attachments: 32-8 2 COC.PDF; HA-2 SE looking NW.JPG; 32-8 #2 MAP.PDF; 32-8 #2 N looking S.JPG; 32-8 #2 N looking S_2.jpg; 32-8 #2 NW looking SE.JPG; 32-8 #2 NW looking SE_2.jpg; 32-8 #2 SW looking NE.JPG; HA-1 SE looking NW.JPG

From: Devin Hencmann [mailto:dhencmann@ltenv.com]
Sent: Friday, August 19, 2016 11:52 AM
To: Webre, Matt <Matt.Webre@Williams.com>
Cc: Brooke Herb <bherb@ltenv.com>
Subject: 32-8 #2 subsurface investigation summary

Matt,

This email is a summary of the findings at the 32-8 #2 on 8/18/2016.

Seven handauger boreholes were conducted.
One waste profile sample was collected and submitted to Hall Analytical to be analyzed for **TCLP Metals, and paint filter**, 1-week turnaround (see attached COC).
I have attached a hand drawn map and photos to reference.
No OVM readings above 5ppm were observed. Visual and Odor observations were used to assess impacted soil.

Handauger summary:

HA-1 TD=24 inches

0"-14" bgs Gravel
14"- 24" bgs Silty Clay, Med placticity
Lube oil impacted soil was observed from 0" - 19" bgs
Clay from 19" – 24" bgs did not appear impacted

HA-2 TD=24 inches

0"-14" bgs Gravel
14"- 24" bgs Silty Clay, Med placticity
Lube oil impacted soil was observed from 0" - 19" bgs
Clay from 19" – 24" bgs did not appear impacted

HA-3 TD=24 inches

0"-14" bgs Gravel
14"- 24" bgs Silty Clay, Med placticity
Lube oil impacted soil was observed from 0" - 19"

Clay from 19" – 24" bgs did not appear impacted

HA-4 TD=20 inches

0"-12" bgs Sandy Silt (sediment that has washed into BGT containment)
12"- 20" bgs Gravel
Impacted soil observed from 0"-20" bgs
Standing liquid encountered at 12"- 20" bgs (mix of oil and water)
Liquid consisted of almost entirely lube oil.

HA-5 TD=20 inches

0"-12" bgs Sandy Silt (sediment that has washed into BGT containment)
12"- 20" bgs Gravel
Impacted soil observed from 12"-20" bgs
Standing liquid encountered at 12" bgs (mix of oil and water)
Liquid contained more rain water than oil

HA-6 TD=30 inches

0"-12" bgs Sandy Silt (sediment that has washed into BGT containment)
12"- 24" bgs Gravel
24"- 30" bgs Silty Clay, Med placticity
Impacted soil observed 12"- 26" bgs
Standing liquid encountered 12"- 24" bgs (mix of water and oil)
Liquid contained more rain water than oil
Clay did not appear saturated at 30"

HA-7 TD=9 feet

0" – 6" bgs silty sand
6" – 9' bgs Clay to silty clay, med to high placticity
No impact was observed from 0" – 9' bgs
9' bgs in this location is approximately 24" below the bottom of the BGT containment

Let me know if you have any questions or if you would like a summary in a different format. I also have more photos if you would like to see any of them let me know.

Thank you,
Devin Hencmann

Devin Hencmann
Project Geologist

COMPLIANCE / ENGINEERING / REMEDIATION
LT Environmental, Inc.
848 East 2nd Avenue
Durango, CO 81301
(970) 385-1096 office
(970) 403-6023 cell
(303) 433-1432 fax
www.ltenv.com
dhencmann@ltenv.com

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Oil Conservation Division
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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 Michael Hannan
Address 1755 Arroyo Dr, Bloomfield, NM 87413	Telephone No. 505-632-4807
Facility Name El Cedro	Facility Type Compressor Station

Surface Owner Joseph, Dennis, George, Armando, Henry Espinosa	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	31	29N	5W					Rio Arriba

Latitude 36.687253° N **Longitude** -107.401956° W

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 100 gals	Volume Recovered 100 gals
Source of Release Tank	Date and Hour of Occurrence 9/11/2016 11:00 P.M.	Date and Hour of Discovery 9/11/2016 11:00 P.M.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Cory Smith, NMOCD	
By Whom? Michael Hannan	Date and Hour 9/12/2016 4:30 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3

SEP 19 2016

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

Describe Cause of Problem and Remedial Action Taken.*

Williams Operations personnel responded to a call out from gas control that the facility's compressors had gone down. When the Operations Technician arrived onsite, he observed that the storage tank had been involved in an explosion. Operations personnel replaced the tank and removed the liquids from the concrete secondary containment. Williams personnel are in the process of preventing a reoccurrence.

Describe Area Affected and Cleanup Action Taken.*

Produced water removed from secondary containment. The secondary containment was visually inspected for signs of structural damage and no damage was observed.

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: Michael Hannan	Approved by Environmental Specialist:	
Title: Engineer, Sr.	Approval Date: 10/26/2016	Expiration Date:
E-mail Address: michael.hannan@williams.com	Conditions of Approval: NCS1626053365	Attached ☐
Date: 9/15/16 Phone: 505-632-4807		

* Attach Additional Sheets If Necessary

1

District I
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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Revised August 8, 2011

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: Williams Four Corners LLC	Contact: Michael Hannan
Address: 1755 Arroyo Dr., Bloomfield, NM 87413	Telephone No.: (505) 632-4807
Facility Name: Trunk L	Facility Type: Compressor Station

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
P	21 & 22	28N	5W					Rio Arriba

Latitude 36.643012° N **Longitude** -107.354571° W

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 3,332 MCF Natural Gas	Volume Recovered: 0 MCF Natural gas
Source of Release: Pressure Relief Valve	Date and Hour of Occurrence: 09/12/2016 5:30 PM	Date and Hour of Discovery: 9/12/2016 7:15 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD, Cory Smith BLM, Katherina Diemer	
By Whom? Michael Hannan	Date and Hour: 9/13/2016 at 12:30 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

OIL CONS. DIV DIST. 3

SEP 19 2016

Describe Cause of Problem and Remedial Action Taken.*

Williams had a release of approximately 3,332 MCF of natural gas at the Trunk L Compressor Station from a pressure relief valve. The initial release was the result of overpressure due to the Ignacio plant being down, causing the pressure relief valve to open. After the initial release, the union came uncoupled from the pressure relief valve inlet piping, allowing continued release of gas. Personnel immediately shut in the suction to the affected compressor to prevent further gas loss. A contractor was engaged to test the pressure relief valve and return it to proper working condition. Williams personnel are in the process of preventing a reoccurrence.

Describe Area Affected and Cleanup Action Taken.*

No clean-up required for natural gas release.

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: Michael Hannan		
Title: Engineer, Sr.	Approval Date: 10/26/2016	Expiration Date:
E-mail Address: michael.hannan@williams.com	Conditions of Approval: NVF1626053888	Attached ☐
Date: 09/14/2016 Phone: (505) 632-4807		

* Attach Additional Sheets If Necessary

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State of New Mexico
Energy Minerals and Natural Resources

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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 **Kijun Hong**
Address **1755 Arroyo Drive, Bloomfield, NM 87413**	Telephone No. **505-632-4475**
Facility Name **30-5 CDP**	Facility Type **Compressor Station**

Surface Owner **Private**	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
L	**18**	**30N**	**5W**					**Rio Arriba**

Latitude 36.811634 Longitude -107.403965

NATURE OF RELEASE

Type of Release **Natural Gas and Produced Water**	Volume of Release **1225.3 MCF natural gas; 3 gallons produced water**	Volume Recovered **0**
Source of Release **Facility Pressure Safety Valve (PSV)**	Date and Hour of Occurrence **9/12/2016, 9:18 AM MST**	Date and Hour of Discovery **9/12/2016, 9:18 AM MST**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Cory Smith was notified via telephone**	OIL CONS. DIV DIST. 3
By Whom? **Kijun Hong**	Date and Hour **9/13/2016 @ 8:17am**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **Not Applicable**	SEP 30 2016

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Downstream facility was shut in due to lightning strike causing pressure buildup along the pipeline. This caused the PSV to activate as designed, releasing natural gas and produced water mist. Affected soil from mist has been remediated.

Describe Area Affected and Cleanup Action Taken.*

The mist from the PSV impacted roughly 200ft to the fence line and 120ft outside the fence line; widest spot being 40ft across. Affected area was remediated and a soil sample was collected. The analyses showing non-detect for all constituents tested for. 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: **Kijun Hong**	Approved by Environmental Specialist:
Title: **Environmental Specialist**	Approval Date: 10/26/2016 Expiration Date:
E-mail Address: **Kijun.Hong@Williams.com**	Conditions of Approval: NCS1626330448 Attached ☐
Date: **09/26/2016** Phone: **505-632-4475**	

* Attach Additional Sheets If Necessary

10

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 22, 2016

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

RE: 30-5 CDP Spray Area Outside of Fence OrderNo.: 1609719

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/14/2016 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1609719**
Date Reported: **9/22/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Client Sample ID: 30-5 CDP Compsite outside
Project: 30-5 CDP Spray Area Outside of Fence
Collection Date: 9/13/2016 1:20:00 PM
Lab ID: 1609719-001
Matrix: SOIL
Received Date: 9/14/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	9/19/2016 4:15:02 PM	27590
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/20/2016 12:40:02 PM	27560
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/20/2016 12:40:02 PM	27560
Surr: DNOP	109	70-130		%Rec	1	9/20/2016 12:40:02 PM	27560
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/16/2016 3:02:04 PM	27431
Surr: BFB	77.9	68.3-144		%Rec	1	9/16/2016 3:02:04 PM	27431
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	9/16/2016 3:02:04 PM	27431
Toluene	ND	0.050		mg/Kg	1	9/16/2016 3:02:04 PM	27431
Ethylbenzene	ND	0.050		mg/Kg	1	9/16/2016 3:02:04 PM	27431
Xylenes, Total	ND	0.099		mg/Kg	1	9/16/2016 3:02:04 PM	27431
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	9/16/2016 3:02:04 PM	27431

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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1609719**

22-Sep-16

Client: Williams Field Services

Project: 30-5 CDP Spray Area Outside of Fence

Sample ID	**MB-27590**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**27590**	RunNo:	**37316**					
Prep Date:	**9/19/2016**	Analysis Date:	**9/19/2016**	SeqNo:	**1158856**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-27590**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**27590**	RunNo:	**37316**					
Prep Date:	**9/19/2016**	Analysis Date:	**9/19/2016**	SeqNo:	**1158857**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1609719**

22-Sep-16

Client: Williams Field Services

Project: 30-5 CDP Spray Area Outside of Fence

Sample ID	LCS-27592	SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS	Batch ID:	27592		RunNo:	37319				
Prep Date:	9/20/2016	Analysis Date:	9/20/2016		SeqNo:	1159031	Units:	%Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.9	70	130			

Sample ID	MB-27592	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	27592		RunNo:	37319				
Prep Date:	9/20/2016	Analysis Date:	9/20/2016		SeqNo:	1159032	Units:	%Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.4	70	130			

Sample ID	MB-27560	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	27560		RunNo:	37319				
Prep Date:	9/19/2016	Analysis Date:	9/20/2016		SeqNo:	1159369	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Sample ID	LCS-27560	SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS	Batch ID:	27560		RunNo:	37319				
Prep Date:	9/19/2016	Analysis Date:	9/20/2016		SeqNo:	1159425	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	62.6	124			
Surr: DNOP	4.6		5.000		91.7	70	130			

Sample ID	1609719-001AMS	SampType:	MS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	30-5 CDP Compsite	Batch ID:	27560		RunNo:	37319				
Prep Date:	9/19/2016	Analysis Date:	9/20/2016		SeqNo:	1159497	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.4	46.86	6.702	77.9	33.9	141			
Surr: DNOP	4.3		4.686		91.7	70	130			

Sample ID	1609719-001AMSD	SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	30-5 CDP Compsite	Batch ID:	27560		RunNo:	37319				
Prep Date:	9/19/2016	Analysis Date:	9/20/2016		SeqNo:	1159498	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.8	49.07	6.702	88.2	33.9	141	14.5	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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1609719**

22-Sep-16

Client: Williams Field Services

Project: 30-5 CDP Spray Area Outside of Fence

Sample ID	**1609719-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**30-5 CDP Compsite**	Batch ID:	**27560**		RunNo:	**37319**					
Prep Date:	**9/19/2016**	Analysis Date:	**9/20/2016**		SeqNo:	**1159498**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.1		4.907		104	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1609719**

22-Sep-16

Client: Williams Field Services

Project: 30-5 CDP Spray Area Outside of Fence

Sample ID **MB-27431**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **27431**	RunNo: **37249**
Prep Date: **9/15/2016**	Analysis Date: **9/16/2016**	SeqNo: **1157381** 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	770		1000		76.5	68.3	144			

Sample ID **LCS-27431**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **27431**	RunNo: **37249**
Prep Date: **9/15/2016**	Analysis Date: **9/16/2016**	SeqNo: **1157382** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.8	80	120			
Surr: BFB	840		1000		83.8	68.3	144			

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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1609719**

22-Sep-16

Client: Williams Field Services

Project: 30-5 CDP Spray Area Outside of Fence

Sample ID **MB-27431**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **27431**	RunNo: **37249**
Prep Date: **9/15/2016**	Analysis Date: **9/16/2016**	SeqNo: **1157397** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	80	120			

Sample ID **LCS-27431**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **27431**	RunNo: **37249**
Prep Date: **9/15/2016**	Analysis Date: **9/16/2016**	SeqNo: **1157398** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	75.3	123			
Toluene	0.93	0.050	1.000	0	93.4	80	124			
Ethylbenzene	0.95	0.050	1.000	0	94.9	82.8	121			
Xylenes, Total	2.8	0.10	3.000	0	93.9	83.9	122			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	80	120			

Sample ID **1609719-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **30-5 CDP Compsite**	Batch ID: **27431**	RunNo: **37249**
Prep Date: **9/15/2016**	Analysis Date: **9/16/2016**	SeqNo: **1157400** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.024	0.9681	0	76.6	71.5	122			
Toluene	0.88	0.048	0.9681	0	90.8	71.2	123			
Ethylbenzene	0.97	0.048	0.9681	0	100	75.2	130			
Xylenes, Total	2.9	0.097	2.904	0	101	72.4	131			
Surr: 4-Bromofluorobenzene	0.94		0.9681		96.6	80	120			

Sample ID **1609719-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **30-5 CDP Compsite**	Batch ID: **27431**	RunNo: **37249**
Prep Date: **9/15/2016**	Analysis Date: **9/16/2016**	SeqNo: **1157401** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.023	0.9328	0	94.5	71.5	122	17.3	20	
Toluene	0.92	0.047	0.9328	0	99.1	71.2	123	5.03	20	
Ethylbenzene	0.97	0.047	0.9328	0	104	75.2	130	0.401	20	
Xylenes, Total	2.9	0.093	2.799	0	103	72.4	131	2.04	20	
Surr: 4-Bromofluorobenzene	0.88		0.9328		94.5	80	120	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1609719 RcptNo: 1

Received by/date: AT 09/14/16

Logged By: Anne Thorne 9/14/2016 7:30:00 AM Anne Thorne

Completed By: Anne Thorne 9/14/2016 Anne Thorne

Reviewed By: JC 09/14/16 JC 09/14/16

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	1.2	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: WFS

Mailing Address: 188 CR 4900 Bloomfield NM 87413

Phone #: 505

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

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

Accreditation: ☐ NELAP ☐ Other ☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush

Project Name: outside of FCNCC 30-5 CDP Spicy area

Project #:

Project Manager: KiJun Hong

Sampler: Morgan Killion

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.2

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1609719	BTEX + ~~MTBE~~ + ~~TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Ech				Air Bubbles (Y or N)
9/6	1:20	soil	30-5 CDP composite outside	1-402		-001	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/6	1553	Morgan Killion	Cat Walt	9/13/16	1553
9/14	1904	Christine Walters	Clara R	09/14/16	0730

Remarks:

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