

3R-1014

**Release Report/ General
Correspondence**

Williams RA

Date: Jan-Mar 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

DEC 26 2014

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Williams Four Corners LLC	Contact Kelsey Christiansen
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4606
Facility Name 30-5 CDP	Facility Type Compressor Station
Surface Owner Private	Mineral Owner
API No.	

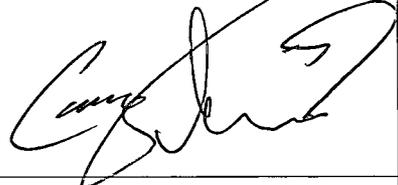
LOCATION OF RELEASE

Unit Letter L	Section 18	Township 30N	Range 5W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude N36.81163° Longitude W107.40396°

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 363 MCF	Volume Recovered 0 MCF
Source of Release Bypass Valve	Date and Hour of Occurrence 12/19/14, 9:30 AM	Date and Hour of Discovery 12/19/14, 9:30 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.* A bypass valve on a dump line was inadvertently left open. The bypass valve was immediately closed upon discovery.		
Describe Area Affected and Cleanup Action Taken.* No cleanup required with 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: Kelsey Christiansen	Approval Date: 2/5/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: Kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 12/22/14	Phone: 505-632-4606	

* Attach Additional Sheets If Necessary

NCS 15036 ~~41381~~ 41381

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District I
1625 N. French Dr., Hobbs, NM 88240
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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

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 Ojito Compressor Station	Facility Type Compressor Station

Surface Owner Jicarilla Apache Nation	Mineral Owner	API No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	7	26N	3W					Rio Arriba

Latitude 36.50697° N Longitude -107.19263° W

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 3,671 MCF	Volume Recovered 0 MCF
Source of Release PSRV	Date and Hour of Occurrence 12/23/2014, 07:00 AM	Date and Hour of Discovery 12/23/2014, 07:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, NMOCD Bryce Hammond, Jicarilla Oil and Gas	
By Whom? Kelsey Christiansen	Date and Hour 12/23/14 5:40 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

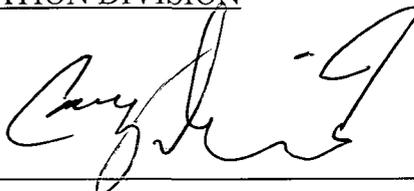
Describe Cause of Problem and Remedial Action Taken.*

Williams had a release of approximately 3,671 MCF of natural gas at Ojito Compressor Station from a pressure relief valve (PSRV). The release was due to the cold weather conditions causing the PSRV to become frozen in the open position. Once the PSRV thawed it returned to proper working conditions and was closed. Williams personnel are in the process of preventing a reoccurrence.

Describe Area Affected and Cleanup Action Taken.*

No cleanup required with 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: Kelsey Christiansen	Approval Date: 2/6/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 12/29/2014	Phone: 505-632-4606	

* Attach Additional Sheets If Necessary

#NCS 1503739101

①

District I
1625 N. French Dr., Hobbs, NM 88240
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1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

JAN 05 2015

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Williams Four Corners, LLC	Contact Kelsey Christiansen
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4606
Facility Name 29-7	Facility Type Compressor Station

Surface Owner Private	Mineral Owner	API No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	15	29N	7W					Rio Arriba

Latitude 36.724454°N Longitude 107.553321°W

NATURE OF RELEASE

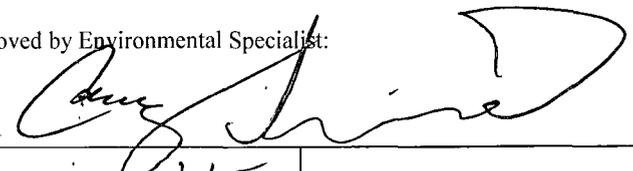
Type of Release Natural Gas	Volume of Release 225 MCF	Volume Recovered 0 MCF
Source of Release Pressure Relief Valve	Date and Hour of Occurrence 12/27/2014, 03:00 AM	Date and Hour of Discovery 12/27/2014, 03:00 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

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

Describe Cause of Problem and Remedial Action Taken.*
Williams had a release of approximately 225 MCF of natural gas at the 29-7 Compressor Station from a pressure relief valve. The release was the result of the cold weather conditions causing the valve to freeze open. Personnel immediately shut in the suction to prevent further gas loss and thawed the valve to return it to proper working condition. Williams personnel bubble wrapped the valve in order to prevent a recurrence.

Describe Area Affected and Cleanup Action Taken.*
No cleanup required for this 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: Kelsey Christiansen	Approval Date: 2/6/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 12/30/14 Phone: 505-632-44606		

* Attach Additional Sheets If Necessary

#NCS 1503739297

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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

JAN 05 2015

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Williams Four Corners LLC	Contact Kelsey Christiansen
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4606
Facility Name Cabresto	Facility Type Compressor Station

Surface Owner US Forest Service	Mineral Owner	API No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	19	30N	4W					Rio Arriba

Latitude 36.802416° N Longitude 107.290237° W

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 528.8 MCF	Volume Recovered 528.8 MCF
Source of Release Vent Port	Date and Hour of Occurrence 12/28/2014, 02:00 AM	Date and Hour of Discovery 12/28/2014, 02:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, NMOCD	
By Whom? Kelsey Christiansen	Date and Hour 12/29/14, 11:03AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

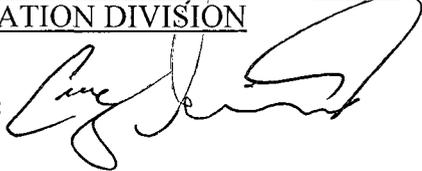
Describe Cause of Problem and Remedial Action Taken.*

Williams had a release of approximately 528.8 MCF of natural gas at the Cabresto Compressor Station from the vent port. The release was due to the cold weather conditions which caused the vent port to become frozen during a compressor gas blow down. The gas blow down was immediately isolated to prevent further gas loss and Williams personnel are in the process of preventing a reoccurrence.

Describe Area Affected and Cleanup Action Taken.*

No cleanup required with 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: Kelsey Christiansen	Approval Date: 2/6/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: Kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 12/29/2014 Phone: 505-632-4606		

* Attach Additional Sheets If Necessary

#NCS 1503739428

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District I

1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources

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

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

Table with 2 columns: Name of Company, Address, Facility Name and Contact, Telephone No., Facility Type.

Table with 3 columns: Surface Owner, Mineral Owner, API No.

LOCATION OF RELEASE

Table with 9 columns: Unit Letter, Section, Township, Range, Feet from the North/South Line, Feet from the East/West Line, County.

Latitude 36.687253° N Longitude -107.401956° W

NATURE OF RELEASE

Table with 3 columns: Type of Release, Source of Release, Volume of Release, Date and Hour of Occurrence, Date and Hour of Discovery, Was Immediate Notice Given?, By Whom?, Was a Watercourse Reached?, If YES, Volume Impacting the Watercourse.

OIL CONS. DIV DIST. 3

JAN 09 2015

Describe Cause of Problem and Remedial Action Taken.*

Williams personnel responded to a unit shut down at the El Cedro Compressor Station and discovered an automatic dump valve open. Immediately the suction discharge was closed and repairs were properly made to the dump valve before bringing the unit back into operation.

Describe Area Affected and Cleanup Action Taken.*

No cleanup required with 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.

Signature: Kelsey Christiansen
Approved by Environmental Specialist: [Signature]
Title: Environmental Specialist
Approval Date: 2/11/15
Expiration Date:
E-mail Address: Kelsey.christiansen@williams.com
Conditions of Approval:
Attached
Date: 1/5/15 Phone: 505-632-4606

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 2/11/15 Expiration Date:

Conditions of Approval:

Attached

* Attach Additional Sheets If Necessary

NCS 15 0412 32 784

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

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 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: 1,832.25 MCF Natural Gas	Volume Recovered: 0 MCF Natural gas
Source of Release: Pressure Relief Valve	Date and Hour of Occurrence: 12/31/2014 at 08:00 AM	Date and Hour of Discovery: 12/31/2014 at 08:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD, Cory Smith	
By Whom? Kelsey Christiansen	Date and Hour: 12/31/14 at 11:20 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

JAN 09 2015

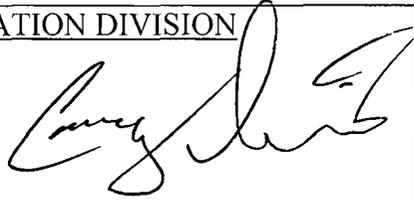
Describe Cause of Problem and Remedial Action Taken.*

Williams had a release of approximately 1,832 MCF of natural gas at the Trunk L Compressor Station from a pressure relief valve. The release was the result of cold weather conditions causing the pressure relief valve to freeze in the open position. Personnel immediately shut in the suction to prevent further gas loss, thawed the valve completely 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: Kelsey Christiansen	Approval Date: 2/11/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	Attached <input type="checkbox"/>
E-mail Address: kelsey.christiansen@williams.com		
Date: 01/05/2014	Phone: (505) 632-4606	

* Attach Additional Sheets If Necessary

#NCS 1504233178

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

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: 29-6#4 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
P	19	29N	6W					Rio Arriba

Latitude 36.704792° N Longitude -107.496173° W

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 1,181 MCF	Volume Recovered: 0 MCF
Source of Release: Pressure Safety Valve (PSV)	Date and Hour of Occurrence: 01/04/15 at 07:00 AM	Date and Hour of Discovery: 01/04/2015 at 07:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Charlie Perrin, NMOCD	
By Whom? Kelsey Christiansen	Date and Hour: 01/04/2015 at 12:35 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV DIST. 3	

If a Watercourse was Impacted, Describe Fully.*
Not Applicable
JAN 12 2015

Describe Cause of Problem and Remedial Action Taken.*
Williams released approximately 1,181 MCF of natural gas at the 29-6 #4 CDP from a pressure safety valve associated with a compressor. The release was the result of cold weather conditions causing the cooler on the compressor to freeze. Once the discharge pressure exceeded the operating pressure the PSV was activated. Personnel immediately shut in the compressor to prevent further gas loss, circulated warm gas into the cooler, thawed out the PSV and returned the compressor unit 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 releases.

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

Signature:	OIL CONSERVATION DIVISION	
	Approved by Environmental Specialist:	
Printed Name: Kelsey Christiansen	Approval Date: 2/11/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 01/06/2015	Phone: (505) 632-4606	

* Attach Additional Sheets If Necessary

NCS 15 042 33541

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District I
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State of New Mexico
Energy Minerals and Natural Resources

OIL CONS. DIV DIST. 3

Form C-141
Revised August 8, 2011

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

Submit 1st Copy to appropriate District Office in accordance with 19.15.29 NMAC.
IAN 1-2-2015

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: 30-5 #19 Dog Leg	Facility Type: Pipeline
Surface Owner: BLM	Mineral Owner
API No.	

LOCATION OF RELEASE

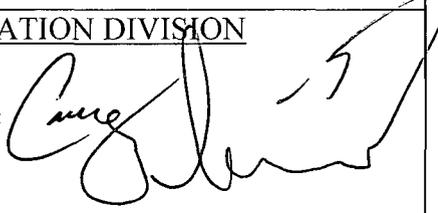
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	18	30N	5W					Rio Arriba

Latitude 36.81455° N Longitude -107.39635° W

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 109.1 MCF Natural Gas	Volume Recovered: 0 MCF Natural gas
Source of Release: Valve	Date and Hour of Occurrence: 01/06/15 at 08:54 AM MST	Date and Hour of Discovery: 01/06/15 at 08:54 AM MST
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.* On January 6, 2015 an unknown party backed into the Williams 30-5 #19 dogleg causing the displacement and damage of a one inch valve. Approximately 109.1 MCF of natural gas was released. Williams personnel responded by blowing down the dog leg and repairing the damaged valve.		
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: Kelsey Christiansen	Approval Date: 2/11/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	Attached <input type="checkbox"/>
E-mail Address: kelsey.christiansen@williams.com		
Date: 01/08/14	Phone: (505) 632-4606	

* Attach Additional Sheets If Necessary

#NCS 15 04234480

①

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.
JAN 26 2015

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Williams Four Corners LLC	Contact Mitch Morris
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4708
Facility Name Lateral R-6	Facility Type Pipeline

Surface Owner Bureau of Land Management	Mineral Owner	API No.
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LOCATION OF RELEASE

Unit Letter F	Section 13	Township 26N	Range 13W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude 36.48244 Longitude -107.52420

NATURE OF RELEASE

Type of Release Hydrotest Water and Produced Water	Volume of Release 200 BBL	Volume Recovered 80 BBL
Source of Release Pipeline	Date and Hour of Occurrence 06/03/2014, 8:30 AM	Date and Hour of Discovery 06/03/2014, 8:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell (NMOCD), Mark Kelly (BLM), NRC	
By Whom? Mitch Morris, Environmental Specialist	Date and Hour 06/03/14, 12:30 PM	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. 200 BBL	

If a Watercourse was Impacted, Describe Fully.*
While hydro-testing the lateral R-6 pipeline, the line ruptured causing the release of 200 bbls of water in the Ice Canyon wash. During excavation of the pipeline to complete repairs, impacts were encountered that appear to have been associated with a historical release. Groundwater was encountered in the excavation at a depth of approximately 6 feet below ground surface. Analytical results indicate the presence of BTEX constituents and TPH in the soil and groundwater.

Describe Cause of Problem and Remedial Action Taken.*
The release was secured and the pipeline was excavated. Standing water was removed for disposal and the pipeline was repaired. Approximately 1,000 cubic yards of impacted soil has been removed from the area and is currently being transported offsite for disposal.

Describe Area Affected and Cleanup Action Taken.*
Impacted soil and water were removed from the area for disposal. Excavation activities were completed on June 14, 2014 based on field screening results. The current excavation dimensions are 92 feet x 31 feet x 7.5 feet deep. Preliminary soil analytical data indicates that the lateral extent of impacts have been delineated. Additional evaluation for the extent of groundwater impacts is ongoing.

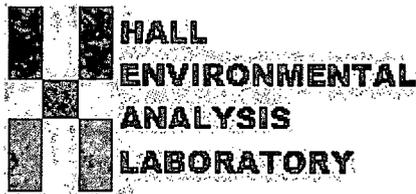
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Mitch Morris	Approval Date: 2/23/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: mitch.morris@williams.com	Attached <input type="checkbox"/>	
Date: 09/23/2014	Phone: 505-632-4708	

* Attach Additional Sheets If Necessary

#NCS 150 8256107

(140)



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

June 16, 2014

Anna Riling
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: Lateral R6 Ice Canyon

OrderNo.: 1406668

Dear Anna Riling:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/14/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

A handwritten number "86" enclosed within a hand-drawn circle.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-1@7.5'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 12:40:00 PM

Lab ID: 1406668-001

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 5:23:47 PM	13706
Surr: DNOP	84.9	57.9-140		%REC	1	6/15/2014 5:23:47 PM	13706
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	6.9	2.4		mg/Kg	1	6/15/2014 5:18:19 PM	R19268
Surr: BFB	205	80-120	S	%REC	1	6/15/2014 5:18:19 PM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/15/2014 10:37:05 AM	R19268
Toluene	ND	0.024		mg/Kg	1	6/15/2014 10:37:05 AM	R19268
Ethylbenzene	ND	0.024		mg/Kg	1	6/15/2014 10:37:05 AM	R19268
Xylenes, Total	ND	0.049		mg/Kg	1	6/15/2014 10:37:05 AM	R19268
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	6/15/2014 10:37:05 AM	R19268

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-2@7.5'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 1:22:00 PM

Lab ID: 1406668-002

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 5:47:04 PM	13706
Surr: DNOP	82.6	57.9-140		%REC	1	6/15/2014 5:47:04 PM	13706
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	2.5		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Surr: BFB	96.0	80-120		%REC	1	6/15/2014 11:34:27 AM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Toluene	ND	0.025		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Ethylbenzene	ND	0.025		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Xylenes, Total	ND	0.050		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	6/15/2014 11:34:27 AM	R19268

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 greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1406668

Date Reported: 6/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: S-4@7.5'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 2:52:00 PM

Lab ID: 1406668-003

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 6:09:31 PM	13706
Surr: DNOP	83.7	57.9-140		%REC	1	6/15/2014 6:09:31 PM	13706
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Surr: BFB	95.7	80-120		%REC	1	6/15/2014 12:03:08 PM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Toluene	ND	0.027		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Ethylbenzene	ND	0.027		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Xylenes, Total	ND	0.054		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	6/15/2014 12:03:08 PM	R19268

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	Page 3 of 6
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	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#: 1406668

16-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13705	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13705	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556847	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		83.9	57.9	140			

Sample ID	MB-13706	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13706	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556848	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	8.2		10.00		82.0	57.9	140			

Sample ID	LCS-13705	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13705	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556849	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.6	57.9	140			

Sample ID	LCS-13706	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13706	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556850	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	99.0	60.8	145			
Surr: DNOP	3.7		5.000		74.1	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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406668

16-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R19268	RunNo:	19268					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556911	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	930		1000		92.6	80	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R19268	RunNo:	19268					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556912	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	104	71.7	134			
Surr: BFB	1000		1000		99.7	80	120			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406668

16-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID: 5ML-RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R19268	RunNo: 19268								
Prep Date:	Analysis Date: 6/15/2014	SeqNo: 556924	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		100	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R19268	RunNo: 19268								
Prep Date:	Analysis Date: 6/15/2014	SeqNo: 556969	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

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 greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1406668 RcptNo: 1

Received by/date:	<i>[Signature]</i>	<i>06/14/14</i>
Logged By:	Ashley Gallegos	6/14/2014 10:00:00 AM
Completed By:	Ashley Gallegos	6/14/2014 10:25:18 AM
Reviewed By:	<i>[Signature]</i>	<i>06/14/14</i>

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

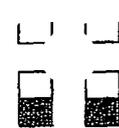
17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

Client: Animas Environmental Services

Rush Results Sunday evening June 15



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Mailing Address: 624 E Comanche

Standard

Project Name:

Lateral R6 Ice Canyon

Farmington, NM 87401

Project #:

Phone #: 505-564-2281

Project Manager:

Email or Fax#:

Anna Riling

QA/QC Package:

Standard

Level 4 (Full Validation)

Accreditation:

NELAP

Other

Sampler: Emilee Skyles

On Ice Yes No

EDD (Type)

Sample Temperature

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX - 8021B	TPH (GRO/DRO) - EPA 8015B											Air Bubbles (Y or N)					
6/13/14	12:40	Soil	S-1@7.5'	1-MEOH kit/ 1 4oz jar	MEOH/Cold	1406668-1	X	X																
6/13/14	13:22	Soil	S-2@7.5'	1-MEOH kit/ 1 4oz jar	MEOH/Cold	-2	X	X																
6/13/14	14:52	Soil	S-4@7.5'	1-MEOH kit/ 1 4oz jar	MEOH/Cold	-3	X	X																

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks: Direct bill to Williams
				6/14/14	10:00	
Date:	Time:	Relinquished by:	Received by:	Date	Time	

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



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

June 18, 2014

Anna Riling
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: Lateral R6 Ice Canyon

OrderNo.: 1406704

Dear Anna Riling:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/16/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-7 @ 7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 9:40:00 AM

Lab ID: 1406704-001

Matrix: MEOH (SOIL)

Received Date: 6/16/2014 4:17:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/17/2014 10:25:24 AM	13738
Surr: DNOP	97.0	57.9-140		%REC	1	6/17/2014 10:25:24 AM	13738
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.6		mg/Kg	1	6/17/2014 10:39:00 AM	R19313
Surr: BFB	89.6	80-120		%REC	1	6/17/2014 10:39:00 AM	R19313
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	6/17/2014 10:39:00 AM	R19313
Toluene	ND	0.026		mg/Kg	1	6/17/2014 10:39:00 AM	R19313
Ethylbenzene	ND	0.026		mg/Kg	1	6/17/2014 10:39:00 AM	R19313
Xylenes, Total	ND	0.053		mg/Kg	1	6/17/2014 10:39:00 AM	R19313
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	6/17/2014 10:39:00 AM	R19313

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 greater than 2.
	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#: 1406704

18-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13738	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13738	RunNo:	19312					
Prep Date:	6/17/2014	Analysis Date:	6/17/2014	SeqNo:	558311	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	8.6		10.00		86.1	57.9	140			

Sample ID	LCS-13738	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13738	RunNo:	19312					
Prep Date:	6/17/2014	Analysis Date:	6/17/2014	SeqNo:	558312	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.00	0	126	60.8	145			
Surr: DNOP	4.4		5.000		87.9	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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406704

18-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13725 MK	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R19313	RunNo:	19313					
Prep Date:		Analysis Date:	6/17/2014	SeqNo:	558986	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	940		1000		93.7	80	120			

Sample ID	LCS-13725 MK	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R19313	RunNo:	19313					
Prep Date:		Analysis Date:	6/17/2014	SeqNo:	558987	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	89.5	71.7	134			
Surr: BFB	1000		1000		103	80	120			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406704

18-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13725 MK	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R19313	RunNo:	19313					
Prep Date:		Analysis Date:	6/17/2014	SeqNo:	559006	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	1.1		1.000		108	80	120			

Sample ID	LCS-13725 MK	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R19313	RunNo:	19313					
Prep Date:		Analysis Date:	6/17/2014	SeqNo:	559007	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.2	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

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 greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1406704

RcptNo: 1

Received by/date: AG 06/16/14

Logged By: Michelle Garcia 6/16/2014 4:17:00 PM *Michelle Garcia*

Completed By: Michelle Garcia 6/16/2014 4:30:26 PM *Michelle Garcia*

Reviewed By: IO 06/16/14

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

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

17. Additional remarks:

18. Cooler Information

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



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

June 17, 2014

Anna Riling
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: Lateral R6 Ice Canyon

OrderNo.: 1406672

Dear Anna Riling:

Hall Environmental Analysis Laboratory received 21 sample(s) on 6/14/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 16, 2014.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1406672

Date Reported: 6/17/2014

CLIENT: Animas Environmental Services

Client Sample ID: S-3@7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 5:00:00 PM

Lab ID: 1406672-001

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 1:38:43 PM	13705
Surr: DNOP	88.1	57.9-140		%REC	1	6/15/2014 1:38:43 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Surr: BFB	96.8	80-120		%REC	1	6/15/2014 12:31:51 PM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.032		mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Toluene	ND	0.032		mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Ethylbenzene	ND	0.032		mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Xylenes, Total	ND	0.065		mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	6/15/2014 12:31:51 PM	R19268

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-5@7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 9:05:00 AM

Lab ID: 1406672-002

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 2:00:57 PM	13705
Surr: DNOP	86.8	57.9-140		%REC	1	6/15/2014 2:00:57 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Surr: BFB	101	80-120		%REC	1	6/15/2014 1:00:27 PM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Toluene	ND	0.047		mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Ethylbenzene	ND	0.047		mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Xylenes, Total	ND	0.094		mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	6/15/2014 1:00:27 PM	R19268

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 greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-8@7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 9:45:00 AM

Lab ID: 1406672-004

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/15/2014 2:23:29 PM	13705
Surr: DNOP	87.7	57.9-140		%REC	1	6/15/2014 2:23:29 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Surr: BFB	94.1	80-120		%REC	1	6/15/2014 1:29:04 PM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Toluene	ND	0.046		mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Ethylbenzene	ND	0.046		mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Xylenes, Total	ND	0.091		mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	6/15/2014 1:29:04 PM	R19268

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-9@7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 9:50:00 AM

Lab ID: 1406672-005

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 2:45:53 PM	13705
Surr: DNOP	85.7	57.9-140		%REC	1	6/15/2014 2:45:53 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Surr: BFB	95.6	80-120		%REC	1	6/15/2014 1:57:38 PM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Toluene	ND	0.049		mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	6/15/2014 1:57:38 PM	R19268

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-10@7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 10:20:00 AM

Lab ID: 1406672-006

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2014 3:08:22 PM	13705
Surr: DNOP	86.5	57.9-140		%REC	1	6/15/2014 3:08:22 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/15/2014 10:20:13 AM	R19267
Surr: BFB	92.9	80-120		%REC	1	6/15/2014 10:20:13 AM	R19267
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	6/15/2014 10:20:13 AM	R19267
Toluene	ND	0.048		mg/Kg	1	6/15/2014 10:20:13 AM	R19267
Ethylbenzene	ND	0.048		mg/Kg	1	6/15/2014 10:20:13 AM	R19267
Xylenes, Total	ND	0.096		mg/Kg	1	6/15/2014 10:20:13 AM	R19267
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	6/15/2014 10:20:13 AM	R19267

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 greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-11

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 11:50:00 AM

Lab ID: 1406672-007

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2014 3:30:50 PM	13705
Surr: DNOP	89.8	57.9-140		%REC	1	6/15/2014 3:30:50 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2014 10:50:28 AM	R19267
Surr: BFB	86.2	80-120		%REC	1	6/15/2014 10:50:28 AM	R19267
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	6/15/2014 10:50:28 AM	R19267
Toluene	ND	0.049		mg/Kg	1	6/15/2014 10:50:28 AM	R19267
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2014 10:50:28 AM	R19267
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2014 10:50:28 AM	R19267
Surr: 4-Bromofluorobenzene	98.3	80-120		%REC	1	6/15/2014 10:50:28 AM	R19267

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-12

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 11:55:00 AM

Lab ID: 1406672-008

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2014 12:28:54 PM	13705
Surr: DNOP	105	57.9-140		%REC	1	6/15/2014 12:28:54 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2014 11:20:47 AM	R19267
Surr: BFB	91.9	80-120		%REC	1	6/15/2014 11:20:47 AM	R19267
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	6/15/2014 11:20:47 AM	R19267
Toluene	ND	0.049		mg/Kg	1	6/15/2014 11:20:47 AM	R19267
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2014 11:20:47 AM	R19267
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2014 11:20:47 AM	R19267
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	6/15/2014 11:20:47 AM	R19267

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-13

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:00:00 PM

Lab ID: 1406672-009

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2014 12:59:57 PM	13705
Surr: DNOP	105	57.9-140		%REC	1	6/15/2014 12:59:57 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Surr: BFB	91.6	80-120		%REC	1	6/15/2014 11:51:00 AM	R19267
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Toluene	ND	0.048		mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Ethylbenzene	ND	0.048		mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Xylenes, Total	ND	0.096		mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	6/15/2014 11:51:00 AM	R19267

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 greater than 2.
	R	RPD outside accepted recovery limits.	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-14

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 11:50:00 AM

Lab ID: 1406672-010

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 1:31:49 PM	13705
Surr: DNOP	102	57.9-140		%REC	1	6/15/2014 1:31:49 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/15/2014 12:21:15 PM	R19267
Surr: BFB	91.5	80-120		%REC	1	6/15/2014 12:21:15 PM	R19267
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	6/15/2014 12:21:15 PM	R19267
Toluene	ND	0.046		mg/Kg	1	6/15/2014 12:21:15 PM	R19267
Ethylbenzene	ND	0.046		mg/Kg	1	6/15/2014 12:21:15 PM	R19267
Xylenes, Total	ND	0.092		mg/Kg	1	6/15/2014 12:21:15 PM	R19267
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	6/15/2014 12:21:15 PM	R19267

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-15

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:10:00 PM

Lab ID: 1406672-011

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2014 2:02:46 PM	13705
Surr: DNOP	98.1	57.9-140		%REC	1	6/15/2014 2:02:46 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2014 12:51:28 PM	R19267
Surr: BFB	90.4	80-120		%REC	1	6/15/2014 12:51:28 PM	R19267
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	6/15/2014 12:51:28 PM	R19267
Toluene	ND	0.047		mg/Kg	1	6/15/2014 12:51:28 PM	R19267
Ethylbenzene	ND	0.047		mg/Kg	1	6/15/2014 12:51:28 PM	R19267
Xylenes, Total	ND	0.094		mg/Kg	1	6/15/2014 12:51:28 PM	R19267
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	6/15/2014 12:51:28 PM	R19267

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 greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1406672

Date Reported: 6/17/2014

CLIENT: Animas Environmental Services

Client Sample ID: S-16

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:15:00 PM

Lab ID: 1406672-012

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2014 2:33:48 PM	13705
Surr: DNOP	100	57.9-140		%REC	1	6/15/2014 2:33:48 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Surr: BFB	94.9	80-120		%REC	1	6/15/2014 1:21:41 PM	R19267
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.045		mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Toluene	ND	0.045		mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Ethylbenzene	ND	0.045		mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Xylenes, Total	ND	0.089		mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	6/15/2014 1:21:41 PM	R19267

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-17

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:20:00 PM

Lab ID: 1406672-013

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/15/2014 3:04:22 PM	13705
Surr: DNOP	95.7	57.9-140		%REC	1	6/15/2014 3:04:22 PM	13705
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Surr: BFB	94.7	80-120		%REC	1	6/15/2014 1:51:48 PM	R19267
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.040		mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Toluene	ND	0.040		mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Ethylbenzene	ND	0.040		mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Xylenes, Total	ND	0.081		mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	6/15/2014 1:51:48 PM	R19267

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

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 greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-18

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:25:00 PM

Lab ID: 1406672-014

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	16	9.9		mg/Kg	1	6/15/2014 3:35:16 PM	13705
Surr: DNOP	89.9	57.9-140		%REC	1	6/15/2014 3:35:16 PM	13705
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.034		mg/Kg	1	6/15/2014 10:28:22 AM	R19272
Toluene	ND	0.034		mg/Kg	1	6/15/2014 10:28:22 AM	R19272
Ethylbenzene	ND	0.034		mg/Kg	1	6/15/2014 10:28:22 AM	R19272
Xylenes, Total	ND	0.069		mg/Kg	1	6/15/2014 10:28:22 AM	R19272
Surr: 1,2-Dichloroethane-d4	95.8	70-130		%REC	1	6/15/2014 10:28:22 AM	R19272
Surr: 4-Bromofluorobenzene	95.0	70-130		%REC	1	6/15/2014 10:28:22 AM	R19272
Surr: Dibromofluoromethane	116	70-130		%REC	1	6/15/2014 10:28:22 AM	R19272
Surr: Toluene-d8	89.4	70-130		%REC	1	6/15/2014 10:28:22 AM	R19272
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/15/2014 10:28:22 AM	R19272
Surr: BFB	110	61.2-137		%REC	1	6/15/2014 10:28:22 AM	R19272

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: WS-1

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 1:05:00 PM

Lab ID: 1406672-015

Matrix: AQUEOUS

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: BCN
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/15/2014 7:17:02 PM	13707
Surr: DNOP	109	62.7-145		%REC	1	6/15/2014 7:17:02 PM	13707
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	42	1.0		µg/L	1	6/15/2014 2:47:03 PM	R19272
Toluene	ND	1.0		µg/L	1	6/15/2014 2:47:03 PM	R19272
Ethylbenzene	26	1.0		µg/L	1	6/15/2014 2:47:03 PM	R19272
Xylenes, Total	210	2.0		µg/L	1	6/15/2014 2:47:03 PM	R19272
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%REC	1	6/15/2014 2:47:03 PM	R19272
Surr: 4-Bromofluorobenzene	88.4	70-130		%REC	1	6/15/2014 2:47:03 PM	R19272
Surr: Dibromofluoromethane	104	70-130		%REC	1	6/15/2014 2:47:03 PM	R19272
Surr: Toluene-d8	100	70-130		%REC	1	6/15/2014 2:47:03 PM	R19272
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	1.9	0.050		mg/L	1	6/15/2014 2:47:03 PM	R19272
Surr: BFB	97.0	70-130		%REC	1	6/15/2014 2:47:03 PM	R19272

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 greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1406672**

Date Reported: **6/17/2014**

CLIENT: Animas Environmental Services

Client Sample ID: WS-2

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 1:10:00 PM

Lab ID: 1406672-016

Matrix: AQUEOUS

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: BCN
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/15/2014 7:39:34 PM	13707
Surr: DNOP	105	62.7-145		%REC	1	6/15/2014 7:39:34 PM	13707
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	180	20		µg/L	20	6/15/2014 11:53:22 PM	R19272
Toluene	65	20		µg/L	20	6/15/2014 11:53:22 PM	R19272
Ethylbenzene	77	20		µg/L	20	6/15/2014 11:53:22 PM	R19272
Xylenes, Total	790	40		µg/L	20	6/15/2014 11:53:22 PM	R19272
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	20	6/15/2014 11:53:22 PM	R19272
Surr: 4-Bromofluorobenzene	97.5	70-130		%REC	20	6/15/2014 11:53:22 PM	R19272
Surr: Dibromofluoromethane	112	70-130		%REC	20	6/15/2014 11:53:22 PM	R19272
Surr: Toluene-d8	97.5	70-130		%REC	20	6/15/2014 11:53:22 PM	R19272
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	5.0	1.0		mg/L	20	6/15/2014 11:53:22 PM	R19272
Surr: BFB	96.2	70-130		%REC	20	6/15/2014 11:53:22 PM	R19272

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 15 of 32
	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 greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-19

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:30:00 PM

Lab ID: 1406672-017

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	24	10		mg/Kg	1	6/15/2014 4:38:08 PM	13705
Surr: DNOP	84.4	57.9-140		%REC	1	6/15/2014 4:38:08 PM	13705
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.036		mg/Kg	1	6/15/2014 10:57:08 AM	R19272
Toluene	ND	0.036		mg/Kg	1	6/15/2014 10:57:08 AM	R19272
Ethylbenzene	0.038	0.036		mg/Kg	1	6/15/2014 10:57:08 AM	R19272
Xylenes, Total	0.38	0.072		mg/Kg	1	6/15/2014 10:57:08 AM	R19272
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%REC	1	6/15/2014 10:57:08 AM	R19272
Surr: 4-Bromofluorobenzene	85.6	70-130		%REC	1	6/15/2014 10:57:08 AM	R19272
Surr: Dibromofluoromethane	105	70-130		%REC	1	6/15/2014 10:57:08 AM	R19272
Surr: Toluene-d8	90.6	70-130		%REC	1	6/15/2014 10:57:08 AM	R19272
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	49	3.6		mg/Kg	1	6/15/2014 10:57:08 AM	R19272
Surr: BFB	104	61.2-137		%REC	1	6/15/2014 10:57:08 AM	R19272

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-20

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:35:00 PM

Lab ID: 1406672-018

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/15/2014 5:09:44 PM	13705
Surr: DNOP	86.3	57.9-140		%REC	1	6/15/2014 5:09:44 PM	13705
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	6/15/2014 11:25:52 AM	R19272
Toluene	ND	0.049		mg/Kg	1	6/15/2014 11:25:52 AM	R19272
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2014 11:25:52 AM	R19272
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2014 11:25:52 AM	R19272
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	6/15/2014 11:25:52 AM	R19272
Surr: 4-Bromofluorobenzene	94.7	70-130		%REC	1	6/15/2014 11:25:52 AM	R19272
Surr: Dibromofluoromethane	112	70-130		%REC	1	6/15/2014 11:25:52 AM	R19272
Surr: Toluene-d8	93.0	70-130		%REC	1	6/15/2014 11:25:52 AM	R19272
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2014 11:25:52 AM	R19272
Surr: BFB	108	61.2-137		%REC	1	6/15/2014 11:25:52 AM	R19272

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	Page 17 of 32
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-21

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:40:00 PM

Lab ID: 1406672-019

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	69	10		mg/Kg	1	6/15/2014 5:41:27 PM	13705
Surr: DNOP	64.4	57.9-140		%REC	1	6/15/2014 5:41:27 PM	13705
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	6/15/2014 11:54:34 AM	R19272
Toluene	ND	0.049		mg/Kg	1	6/15/2014 11:54:34 AM	R19272
Ethylbenzene	1.6	0.049		mg/Kg	1	6/15/2014 11:54:34 AM	R19272
Xylenes, Total	16	2.0		mg/Kg	20	6/15/2014 4:42:17 PM	R19272
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%REC	1	6/15/2014 11:54:34 AM	R19272
Surr: 4-Bromofluorobenzene	76.3	70-130		%REC	1	6/15/2014 11:54:34 AM	R19272
Surr: Dibromofluoromethane	106	70-130		%REC	1	6/15/2014 11:54:34 AM	R19272
Surr: Toluene-d8	90.8	70-130		%REC	1	6/15/2014 11:54:34 AM	R19272
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	450	98		mg/Kg	20	6/15/2014 4:42:17 PM	R19272
Surr: BFB	98.4	61.2-137		%REC	20	6/15/2014 4:42:17 PM	R19272

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-22

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:45:00 PM

Lab ID: 1406672-020

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 6:13:05 PM	13705
Surr: DNOP	82.9	57.9-140		%REC	1	6/15/2014 6:13:05 PM	13705
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Toluene	ND	0.048		mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Ethylbenzene	0.12	0.048		mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Xylenes, Total	0.69	0.096		mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%REC	1	6/15/2014 12:23:17 PM	R19272
Surr: 4-Bromofluorobenzene	86.2	70-130		%REC	1	6/15/2014 12:23:17 PM	R19272
Surr: Dibromofluoromethane	103	70-130		%REC	1	6/15/2014 12:23:17 PM	R19272
Surr: Toluene-d8	91.2	70-130		%REC	1	6/15/2014 12:23:17 PM	R19272
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	56	4.8		mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Surr: BFB	109	61.2-137		%REC	1	6/15/2014 12:23:17 PM	R19272

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 greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-23

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:45:00 PM

Lab ID: 1406672-021

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	110	10		mg/Kg	1	6/15/2014 6:44:19 PM	13705
Surr: DNOP	96.0	57.9-140		%REC	1	6/15/2014 6:44:19 PM	13705
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	0.34	0.19		mg/Kg	5	6/15/2014 6:08:41 PM	R19272
Toluene	ND	0.19		mg/Kg	5	6/15/2014 6:08:41 PM	R19272
Ethylbenzene	0.98	0.19		mg/Kg	5	6/15/2014 6:08:41 PM	R19272
Xylenes, Total	8.8	0.39		mg/Kg	5	6/15/2014 6:08:41 PM	R19272
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%REC	5	6/15/2014 6:08:41 PM	R19272
Surr: 4-Bromofluorobenzene	86.7	70-130		%REC	5	6/15/2014 6:08:41 PM	R19272
Surr: Dibromofluoromethane	105	70-130		%REC	5	6/15/2014 6:08:41 PM	R19272
Surr: Toluene-d8	99.3	70-130		%REC	5	6/15/2014 6:08:41 PM	R19272
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	250	19		mg/Kg	5	6/15/2014 6:08:41 PM	R19272
Surr: BFB	100	61.2-137		%REC	5	6/15/2014 6:08:41 PM	R19272

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 greater than 2.
	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#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13705	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13705	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556847	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	8.4		10.00		83.9	57.9	140			

Sample ID	MB-13706	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13706	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556848	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.0	57.9	140			

Sample ID	LCS-13705	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13705	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556849	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	60.8	145			
Surr: DNOP	3.9		5.000		77.6	57.9	140			

Sample ID	LCS-13706	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13706	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556850	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.1	57.9	140			

Sample ID	1406672-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	S-3@7'	Batch ID:	13705	RunNo:	19266					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	557061	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	49.75	0	91.0	40.1	152			
Surr: DNOP	4.0		4.975		80.3	57.9	140			

Sample ID	1406672-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	S-3@7'	Batch ID:	13705	RunNo:	19266					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	557069	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.9	49.60	0	115	40.1	152	23.3	32.1	
Surr: DNOP	4.8		4.960		96.8	57.9	140	0	0	

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID: MB-13707	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range								
Client ID: PBW	Batch ID: 13707	RunNo: 19265								
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556945	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.0		1.000		103	62.7	145			

Sample ID: LCS-13707	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range								
Client ID: LCSW	Batch ID: 13707	RunNo: 19265								
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556994	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.9	1.0	5.000	0	137	78.6	146			
Surr: DNOP	0.50		0.5000		101	62.7	145			

Sample ID: LCSD-13707	SampType: LCSD	TestCode: EPA Method 8015D: Diesel Range								
Client ID: LCSS02	Batch ID: 13707	RunNo: 19265								
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556995	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.5	1.0	5.000	0	129	78.6	146	6.02	26.5	
Surr: DNOP	0.51		0.5000		102	62.7	145	0	0	

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R19267	RunNo:	19267					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556898	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	980		1000		97.8	80	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R19267	RunNo:	19267					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556899	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.9	71.7	134			
Surr: BFB	1000		1000		99.7	80	120			

Sample ID	1406672-006A MS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	S-10@7'	Batch ID:	R19267	RunNo:	19267					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556901	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.8	23.99	0	85.4	69.5	145			
Surr: BFB	890		959.7		92.4	80	120			

Sample ID	1406672-006A MSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	S-10@7'	Batch ID:	R19267	RunNo:	19267					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556902	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.99	0	87.4	69.5	145	2.31	20	
Surr: BFB	980		959.7		102	80	120	0	0	

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R19268	RunNo:	19268					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556911	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	930		1000		92.6	80	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R19268	RunNo:	19268					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556912	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R19268	RunNo:	19268					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556912	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	104	71.7	134			
Surr: BFB	1000		1000		99.7	80	120			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	5ML-RB		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	R19268		RunNo:	19268				
Prep Date:			Analysis Date:	6/15/2014		SeqNo:	556924		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	ND	0.10									
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120				

Sample ID	5ML-RB		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	R19267		RunNo:	19267				
Prep Date:			Analysis Date:	6/15/2014		SeqNo:	556934		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	1.1		1.000		113	80	120				

Sample ID	1406672-006AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	S-10@7'		Batch ID:	R19267		RunNo:	19267				
Prep Date:			Analysis Date:	6/15/2014		SeqNo:	556936		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91	0.048	0.9597	0	95.0	67.4	135				
Toluene	0.89	0.048	0.9597	0	93.1	72.6	135				
Ethylbenzene	0.90	0.048	0.9597	0	93.4	69.4	143				
Xylenes, Total	2.8	0.096	2.879	0.03052	96.6	70.8	144				
Surr: 4-Bromofluorobenzene	1.1		0.9597		117	80	120				

Sample ID	100NG BTEX LCS		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	LCSS		Batch ID:	R19267		RunNo:	19267				
Prep Date:			Analysis Date:	6/15/2014		SeqNo:	556950		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.050	1.000	0	104	80	120				
Toluene	1.0	0.050	1.000	0	103	80	120				
Ethylbenzene	1.0	0.050	1.000	0	102	80	120				
Xylenes, Total	3.2	0.10	3.000	0	105	80	120				
Surr: 4-Bromofluorobenzene	1.2		1.000		123	80	120			S	

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	1406672-006AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-10@7'	Batch ID:	R19267	RunNo:	19267					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556952	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.048	0.9597	0	93.1	67.4	135	2.06	20	
Toluene	0.87	0.048	0.9597	0	91.0	72.6	135	2.34	20	
Ethylbenzene	0.88	0.048	0.9597	0	91.7	69.4	143	1.84	20	
Xylenes, Total	2.7	0.096	2.879	0.03052	93.9	70.8	144	2.86	20	
Surr: 4-Bromofluorobenzene	1.1		0.9597		116	80	120	0	0	

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R19268	RunNo:	19268					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556969	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.1	0.10	1.000	0	110	80	120			
Benzene	1.1	0.050	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services
Project: Lateral R6 Ice Canyon

Sample ID	5ml-rb		SampType:	MBLK		TestCode:	EPA Method 8260B: Volatiles Short List				
Client ID:	PBS		Batch ID:	R19272		RunNo:	19272				
Prep Date:			Analysis Date:	6/15/2014		SeqNo:	557042		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130				
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130				
Surr: Dibromofluoromethane	0.55		0.5000		111	70	130				
Surr: Toluene-d8	0.49		0.5000		98.9	70	130				

Sample ID	100ng lcs		SampType:	LCS		TestCode:	EPA Method 8260B: Volatiles Short List				
Client ID:	LCSS		Batch ID:	R19272		RunNo:	19272				
Prep Date:			Analysis Date:	6/15/2014		SeqNo:	557043		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	105	70	130				
Toluene	1.1	0.050	1.000	0	105	60.1	120				
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.0	70	130				
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.8	70	130				
Surr: Dibromofluoromethane	0.50		0.5000		99.5	70	130				
Surr: Toluene-d8	0.49		0.5000		98.9	70	130				

Sample ID	1406672-014AMS		SampType:	MS		TestCode:	EPA Method 8260B: Volatiles Short List				
Client ID:	S-18		Batch ID:	R19272		RunNo:	19272				
Prep Date:			Analysis Date:	6/15/2014		SeqNo:	557211		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.72	0.034	0.6887	0	104	62.6	140				
Toluene	0.65	0.034	0.6887	0.003547	94.5	66.3	136				
Surr: 1,2-Dichloroethane-d4	0.34		0.3444		97.6	70	130				
Surr: 4-Bromofluorobenzene	0.33		0.3444		96.7	70	130				
Surr: Dibromofluoromethane	0.34		0.3444		98.4	70	130				
Surr: Toluene-d8	0.31		0.3444		90.5	70	130				

Sample ID	1406672-014amsd		SampType:	MSD		TestCode:	EPA Method 8260B: Volatiles Short List				
Client ID:	S-18		Batch ID:	R19272		RunNo:	19272				
Prep Date:			Analysis Date:	6/15/2014		SeqNo:	557212		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.70	0.034	0.6887	0	102	62.6	140	2.71	20		
Toluene	0.62	0.034	0.6887	0.003547	89.5	66.3	136	5.40	20		

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	1406672-014amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	S-18	Batch ID:	R19272	RunNo:	19272					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	557212	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.34		0.3444		99.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.33		0.3444		95.2	70	130	0	0	
Surr: Dibromofluoromethane	0.35		0.3444		102	70	130	0	0	
Surr: Toluene-d8	0.31		0.3444		90.8	70	130	0	0	

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	5ml-rb		SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List						
Client ID:	PBW		Batch ID: R19272	RunNo: 19272						
Prep Date:			Analysis Date: 6/15/2014	SeqNo: 557051	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.9		10.00		98.9	70	130			

Sample ID	1406672-016ams		SampType: MS	TestCode: EPA Method 8260: Volatiles Short List						
Client ID:	WS-2		Batch ID: R19272	RunNo: 19272						
Prep Date:			Analysis Date: 6/16/2014	SeqNo: 557168	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	590	20	400.0	175.0	103	70	130			
Toluene	490	20	400.0	64.75	107	67.5	123			
Surr: 1,2-Dichloroethane-d4	200		200.0		101	70	130			
Surr: 4-Bromofluorobenzene	190		200.0		96.9	70	130			
Surr: Dibromofluoromethane	190		200.0		95.9	70	130			
Surr: Toluene-d8	200		200.0		98.9	70	130			

Sample ID	1406672-016amsd		SampType: MSD	TestCode: EPA Method 8260: Volatiles Short List						
Client ID:	WS-2		Batch ID: R19272	RunNo: 19272						
Prep Date:			Analysis Date: 6/16/2014	SeqNo: 557169	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	560	20	400.0	175.0	95.9	70	130	4.71	20	
Toluene	470	20	400.0	64.75	101	67.5	123	4.41	20	
Surr: 1,2-Dichloroethane-d4	200		200.0		98.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	200		200.0		100	70	130	0	0	
Surr: Dibromofluoromethane	200		200.0		98.8	70	130	0	0	
Surr: Toluene-d8	200		200.0		99.4	70	130	0	0	

Sample ID	100ng Ics		SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List						
Client ID:	LCSW		Batch ID: R19272	RunNo: 19272						
Prep Date:			Analysis Date: 6/15/2014	SeqNo: 557256	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	21	1.0	20.00	0	105	80	120			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	LCSW	Batch ID:	R19272	RunNo:	19272					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	557256	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.8	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.5	70	130			
Surr: Toluene-d8	9.9		10.00		98.9	70	130			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	R19272	RunNo:	19272					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	557016	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	80	120			
Surr: BFB	480		500.0		96.9	61.2	137			

Sample ID	1406672-014ams	SampType:	MS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	S-18	Batch ID:	R19272	RunNo:	19272					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	557117	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.4	17.22	0	94.7	58	134			
Surr: BFB	350		344.4		103	61.2	137			

Sample ID	1406672-014amsd	SampType:	MSD	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	S-18	Batch ID:	R19272	RunNo:	19272					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	557118	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.4	17.22	0	93.4	58	134	1.45	20	
Surr: BFB	370		344.4		108	61.2	137	0	0	

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBW	Batch ID:	R19272	RunNo:	19272					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	557038	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	9.5		10.00		95.0	70	130			

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSW	Batch ID:	R19272	RunNo:	19272					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	557041	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	103	80	120			
Surr: BFB	9.7		10.00		96.9	70	130			

Sample ID	1406672-016a ms	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	WS-2	Batch ID:	R19272	RunNo:	19272					
Prep Date:		Analysis Date:	6/16/2014	SeqNo:	557106	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	1.0	10.00	4.956	97.0	70	130			
Surr: BFB	190		200.0		97.0	70	130			

Sample ID	1406672-016a msd	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	WS-2	Batch ID:	R19272	RunNo:	19272					
Prep Date:		Analysis Date:	6/16/2014	SeqNo:	557107	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	1.0	10.00	4.956	102	70	130	3.01	20	
Surr: BFB	190		200.0		97.2	70	130	0	0	

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 greater than 2.
- RL Reporting Detection Limit

Client Name: Animas Environmental

Work Order Number: 1406672

RcptNo: 1

Received by/date: [Signature]
 Logged By: Andy Freeman 6/14/2014 [Signature]
 Completed By: [Signature]
 Reviewed By: [Signature]

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	sample S-7@7' was not included in the cooler.		
Client Instructions:	Emailed Debbie on 6/14 and she indicated that they will send this sample at a later date.		

17. Additional remarks:

18. **Cooler Information**

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Farmington, NM 87401
Phone #: 505-564-2281

Email or Fax#:

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

Accreditation:
 NELAP Other _____
 EDD (Type) _____

Results Sunday evening June 15

Standard

Project Name: Lateral R6 Ice Canyon

Project #:

Project Manager: Anna Riling

Sampler: Stephanie Lynn

On Ice: Yes No

Sample Temperature: 4.9



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX - 8021B	TPH (GRO/DRO) - EPA 8015B											Air Bubbles (Y or N)						
6/13/14	17:00	Soil	S-3@7'	1-MEOH kit/ 2- 4oz jar	MEOH/Cold	140101012 -001	X	X																	
6/14/14	9:05	Soil	S-5@7'	1- 4oz jar	cold	-002	X	X																	
6/14/14	9:40	Soil	S-7@7' <i>ATOL 11/14/14</i>	1- 4oz jar	cold		X	X																	
6/14/14	9:45	Soil	S-8@7'	1- 4oz jar	cold	-004	X	X																	
6/14/14	9:50	Soil	S-9@7'	1- 4oz jar	cold	-005	X	X																	
6/14/14	10:20	Soil	S-10@7'	1- 4oz jar	cold	-006	X	X																	
6/14/14	11:50	Soil	S-11	1- 4oz jar	cold	-007	X	X																	
6/14/14	11:55	Soil	S-12	1- 4oz jar	cold	-008	X	X																	
6/14/14	12:00	Soil	S-13	1- 4oz jar	cold	-009	X	X																	

Date: _____ Time: _____ Relinquished by: *Stephanie Lynn*

Date: _____ Time: _____ Received by: *[Signature]* Date: 6/14/14 Time: 1900

Date: _____ Time: _____ Relinquished by: _____

Date: _____ Time: _____ Received by: _____

Remarks: Direct bill to Williams

Page 1 of 2 Did not Receive S-7 @ 7' sample / ATOL 11/14/14

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.

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Farmington, NM 87401
Phone #: 505-564-2281
Email or Fax#:

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

Accreditation:
 NELAP Other _____
 EDD (Type) _____

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
6/14/14	11:50	Soil	S-14	1-4oz jar	cold	-010
6/14/14	12:10	Soil	S-15	1-4oz jar	cold	-011
6/14/14	12:15	Soil	S-16	1-4oz jar	cold	-012
6/14/14	12:20	Soil	S-17	1-4oz jar	cold	-013
6/14/14	12:25	Soil	S-18	1-4oz jar	cold	-014

Date: _____ Time: _____ Relinquished by: *Stephanie Lynn*
Received by: *[Signature]* Date: 6/19/14 Time: 1900

Date: _____ Time: _____ Relinquished by: _____
Received by: _____ Date: _____ Time: _____

Rush Results Sunday evening June 15

Standan

Project Name: Lateral R6 Ice Canyon

Project #: _____

Project Manager: Anna Riling

Sampler: Stephanie Lynn

On Ice: Yes No

Sample Temperature: 4.9

HAL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX - 8021B	TPH (GRO/DRO) - EPA 8015B											Air Bubbles (Y or N)	
X	X												
X	X												
X	X												
X	X												
X	X												

Remarks: Direct bill to Williams
Page 2 of 2

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.

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche

Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation:

NELAP Other

EDD (Type)

Standard

Rush Result Sunday evening June 15

Project Name:

Lateral R6 Ice Canyon

Project #:

Project Manager:

Anna Riling

Sampler: Stephanie Lynn

On Ice: Yes No

Sample Temperature: 4.9



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX - 8021B	TPH (GRO/DRO) - EPA 8015B											Air Bubbles (Y or N)				
6/14/14	12:30	Soil	S-19	1-4oz jar	cold	017	X	X															
6/14/14	12:35	Soil	S-20	1-4oz jar	cold	018	X	X															
6/14/14	12:40	Soil	S-21	1-4oz jar	cold	019	X	X															
6/14/14	12:45	Soil	S-22	1-4oz jar	cold	020	X	X															
6/14/14	12:50	Soil	S-23	1-4oz jar	cold	021	X	X															

Date:	Time:	Relinquished by:	Received by:	Date	Time
		<i>Stephanie Lynn</i>	<i>Andrew</i>	6/19/14	1900
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Direct bill to Williams
Page 1 of 1

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



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

July 10, 2014

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX (505) 324-2022

RE: Williams Field Services Lateral R6

OrderNo.: 1407306

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/8/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** WS-1A**Project:** Williams Field Services Lateral R6**Collection Date:** 7/3/2014 9:30:00 AM**Lab ID:** 1407306-001**Matrix:** AQUEOUS**Received Date:** 7/8/2014 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: BCN
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/8/2014 12:37:40 PM	14102
Surr: DNOP	101	62.7-145		%REC	1	7/8/2014 12:37:40 PM	14102
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	0.051	0.050		mg/L	1	7/8/2014 2:46:03 PM	R19740
Surr: BFB	98.5	70.9-130		%REC	1	7/8/2014 2:46:03 PM	R19740
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	1.5	1.0		µg/L	1	7/8/2014 2:46:03 PM	R19740
Toluene	ND	1.0		µg/L	1	7/8/2014 2:46:03 PM	R19740
Ethylbenzene	ND	1.0		µg/L	1	7/8/2014 2:46:03 PM	R19740
Xylenes, Total	ND	2.0		µg/L	1	7/8/2014 2:46:03 PM	R19740
Surr: 4-Bromofluorobenzene	108	82.9-139		%REC	1	7/8/2014 2:46:03 PM	R19740

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	Page 1 of 5
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: WS-2A

Project: Williams Field Services Lateral R6

Collection Date: 7/3/2014 9:43:00 AM

Lab ID: 1407306-002

Matrix: AQUEOUS

Received Date: 7/8/2014 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: BCN
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/8/2014 1:09:21 PM	14102
Surr: DNOP	101	62.7-145		%REC	1	7/8/2014 1:09:21 PM	14102
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	0.065	0.050		mg/L	1	7/8/2014 4:16:53 PM	R19740
Surr: BFB	102	70.9-130		%REC	1	7/8/2014 4:16:53 PM	R19740
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	1.5	1.0		µg/L	1	7/8/2014 4:16:53 PM	R19740
Toluene	1.1	1.0		µg/L	1	7/8/2014 4:16:53 PM	R19740
Ethylbenzene	ND	1.0		µg/L	1	7/8/2014 4:16:53 PM	R19740
Xylenes, Total	ND	2.0		µg/L	1	7/8/2014 4:16:53 PM	R19740
Surr: 4-Bromofluorobenzene	115	82.9-139		%REC	1	7/8/2014 4:16:53 PM	R19740

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 greater than 2.
	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#: 1407306

10-Jul-14

Client: Animas Environmental Services
Project: Williams Field Services Lateral R6

Sample ID	MB-14102	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	PBW	Batch ID:	14102	RunNo:	19730					
Prep Date:	7/8/2014	Analysis Date:	7/8/2014	SeqNo:	573299	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.1		1.000		106	62.7	145			

Sample ID	LCS-14102	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSW	Batch ID:	14102	RunNo:	19730					
Prep Date:	7/8/2014	Analysis Date:	7/8/2014	SeqNo:	573300	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	5.000	0	120	78.6	146			
Surr: DNOP	0.45		0.5000		89.9	62.7	145			

Sample ID	LCSD-14102	SampType:	LCSD	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSS02	Batch ID:	14102	RunNo:	19730					
Prep Date:	7/8/2014	Analysis Date:	7/8/2014	SeqNo:	573301	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	110	78.6	146	8.76	26.5	
Surr: DNOP	0.42		0.5000		83.9	62.7	145	0	0	

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407306

10-Jul-14

Client: Animas Environmental Services
Project: Williams Field Services Lateral R6

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBW	Batch ID:	R19740	RunNo:	19740					
Prep Date:		Analysis Date:	7/8/2014	SeqNo:	573773	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		90.6	70.9	130			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSW	Batch ID:	R19740	RunNo:	19740					
Prep Date:		Analysis Date:	7/8/2014	SeqNo:	573774	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	99.7	80	120			
Surr: BFB	22		20.00		110	70.9	130			

Sample ID	1407306-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	WS-1A	Batch ID:	R19740	RunNo:	19740					
Prep Date:		Analysis Date:	7/8/2014	SeqNo:	573782	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.59	0.050	0.5000	0.05140	108	79	121			
Surr: BFB	22		20.00		110	70.9	130			

Sample ID	1407306-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	WS-1A	Batch ID:	R19740	RunNo:	19740					
Prep Date:		Analysis Date:	7/8/2014	SeqNo:	573783	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.56	0.050	0.5000	0.05140	102	79	121	5.34	20	
Surr: BFB	21		20.00		105	70.9	130	0	0	

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 greater than 2. |
| 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#: 1407306

10-Jul-14

Client: Animas Environmental Services
 Project: Williams Field Services Lateral R6

Sample ID	5ML RB		SampType: MBLK	TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBW		Batch ID: R19740	RunNo: 19740						
Prep Date:			Analysis Date: 7/8/2014	SeqNo: 573788		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	21		20.00		103	82.9	139			

Sample ID	100NG BTEX LCS		SampType: LCS	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSW		Batch ID: R19740	RunNo: 19740						
Prep Date:			Analysis Date: 7/8/2014	SeqNo: 573789		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	97.9	80	120			
Toluene	20	1.0	20.00	0	98.0	80	120			
Ethylbenzene	20	1.0	20.00	0	97.5	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	24		20.00		118	82.9	139			

Sample ID	1407306-002AMS		SampType: MS	TestCode: EPA Method 8021B: Volatiles						
Client ID:	WS-2A		Batch ID: R19740	RunNo: 19740						
Prep Date:			Analysis Date: 7/8/2014	SeqNo: 573793		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	1.530	97.6	71	129			
Toluene	20	1.0	20.00	1.112	96.5	68.4	135			
Ethylbenzene	20	1.0	20.00	0.5480	95.3	69.4	135			
Xylenes, Total	62	2.0	60.00	1.772	101	72.4	135			
Surr: 4-Bromofluorobenzene	25		20.00		124	82.9	139			

Sample ID	1407306-002AMSD		SampType: MSD	TestCode: EPA Method 8021B: Volatiles						
Client ID:	WS-2A		Batch ID: R19740	RunNo: 19740						
Prep Date:			Analysis Date: 7/8/2014	SeqNo: 573794		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	1.530	98.5	71	129	0.823	20	
Toluene	21	1.0	20.00	1.112	97.3	68.4	135	0.742	20	
Ethylbenzene	20	1.0	20.00	0.5480	96.7	69.4	135	1.43	20	
Xylenes, Total	63	2.0	60.00	1.772	102	72.4	135	0.511	20	
Surr: 4-Bromofluorobenzene	24		20.00		122	82.9	139	0	0	

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 greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1407306

RcptNo: 1

Received by/date: At 07/08/14

Logged By: Anne Thorne 7/8/2014 7:55:00 AM *Anne Thorne*

Completed By: Anne Thorne 7/8/2014 *Anne Thorne*

Reviewed By: *[Signature]* 07/08/14

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	2.9	Good	Yes			



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

June 06, 2014

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX (505) 324-2022

RE: Lateral R6 Ice Canyon

OrderNo.: 1406152

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/4/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: W-1

Project: Lateral R6 Ice Canyon

Collection Date: 6/3/2014 1:47:00 PM

Lab ID: 1406152-001

Matrix: AQUEOUS

Received Date: 6/4/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: BCN
Diesel Range Organics (DRO)	3.7	1.0		mg/L	1	6/4/2014 2:47:06 PM	13511
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/4/2014 2:47:06 PM	13511
Surr: DNOP	101	62.7-145		%REC	1	6/4/2014 2:47:06 PM	13511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	7.8	1.0		mg/L	20	6/4/2014 1:37:53 PM	R19041
Surr: BFB	103	70.9-130		%REC	20	6/4/2014 1:37:53 PM	R19041
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	170	20		µg/L	20	6/4/2014 1:37:53 PM	R19041
Toluene	1300	20		µg/L	20	6/4/2014 1:37:53 PM	R19041
Ethylbenzene	92	20		µg/L	20	6/4/2014 1:37:53 PM	R19041
Xylenes, Total	1300	40		µg/L	20	6/4/2014 1:37:53 PM	R19041
Surr: 4-Bromofluorobenzene	111	82.9-139		%REC	20	6/4/2014 1:37:53 PM	R19041
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	27	5.0		mg/L	10	6/4/2014 11:08:48 AM	R19059

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	Page 1 of 10
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
 Project: Lateral R6 Ice Canyon
 Lab ID: 1406152-002

Client Sample ID: S-1
 Collection Date: 6/3/2014 2:28:00 PM
 Matrix: MEOH (SOIL) Received Date: 6/4/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	27	9.8		mg/Kg	1	6/4/2014 2:24:18 PM	13510
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2014 2:24:18 PM	13510
Surr: DNOP	91.0	57.9-140		%REC	1	6/4/2014 2:24:18 PM	13510
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	130	14		mg/Kg	5	6/4/2014 12:31:33 PM	R19040
Surr: BFB	181	80-120	S	%REC	5	6/4/2014 12:31:33 PM	R19040
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.087	0.070		mg/Kg	5	6/4/2014 12:31:33 PM	R19040
Toluene	ND	0.14		mg/Kg	5	6/4/2014 12:31:33 PM	R19040
Ethylbenzene	0.79	0.14		mg/Kg	5	6/4/2014 12:31:33 PM	R19040
Xylenes, Total	6.2	0.28		mg/Kg	5	6/4/2014 12:31:33 PM	R19040
Surr: 4-Bromofluorobenzene	118	80-120		%REC	5	6/4/2014 12:31:33 PM	R19040
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	ND	30		mg/Kg	20	6/4/2014 11:57:03 AM	13512

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	Page 2 of 10
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	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#: 1406152

06-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13512	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	13512	RunNo:	19055					
Prep Date:	6/4/2014	Analysis Date:	6/4/2014	SeqNo:	550654	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-13512	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	13512	RunNo:	19055					
Prep Date:	6/4/2014	Analysis Date:	6/4/2014	SeqNo:	550655	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406152

06-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R19059	RunNo:	19059					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550787	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R19059	RunNo:	19059					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550788	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.5	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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406152

06-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13510	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13510	RunNo:	19030					
Prep Date:	6/4/2014	Analysis Date:	6/4/2014	SeqNo:	550025	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	8.2		10.00		81.9	57.9	140			

Sample ID	LCS-13510	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13510	RunNo:	19030					
Prep Date:	6/4/2014	Analysis Date:	6/4/2014	SeqNo:	550027	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.7	60.8	145			
Surr: DNOP	4.5		5.000		90.5	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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406152

06-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13511	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	PBW	Batch ID:	13511	RunNo:	19030					
Prep Date:	6/4/2014	Analysis Date:	6/4/2014	SeqNo:	550042	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		109	62.7	145			

Sample ID	LCS-13511	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSW	Batch ID:	13511	RunNo:	19030					
Prep Date:	6/4/2014	Analysis Date:	6/4/2014	SeqNo:	550043	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.4	1.0	5.000	0	109	78.6	146			
Surr: DNOP	0.59		0.5000		117	62.7	145			

Sample ID	LCSD-13511	SampType:	LCSD	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSS02	Batch ID:	13511	RunNo:	19030					
Prep Date:	6/4/2014	Analysis Date:	6/4/2014	SeqNo:	550044	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	110	78.6	146	0.793	26.5	
Surr: DNOP	0.60		0.5000		120	62.7	145	0	0	

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406152

06-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13489 MK	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R19040	RunNo:	19040					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550213	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	870		1000		86.6	80	120			

Sample ID	LCS-13489 MK	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R19040	RunNo:	19040					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550214	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	71.7	134			
Surr: BFB	1000		1000		100	80	120			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406152

06-Jun-14

Client: Animas Environmental Services
 Project: Lateral R6 Ice Canyon

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBW	Batch ID:	R19041	RunNo:	19041					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550248	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual ⁹
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		97.0	70.9	130			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSW	Batch ID:	R19041	RunNo:	19041					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550249	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	105	80	120			
Surr: BFB	22		20.00		108	70.9	130			

Sample ID	1406152-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	W-1	Batch ID:	R19041	RunNo:	19041					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550252	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	1.0	10.00	7.792	107	79	121			
Surr: BFB	460		400.0		115	70.9	130			

Sample ID	1406152-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	W-1	Batch ID:	R19041	RunNo:	19041					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550253	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	1.0	10.00	7.792	99.6	79	121	4.26	20	
Surr: BFB	450		400.0		112	70.9	130	0	0	

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406152

06-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13489 MK	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R19040	RunNo:	19040					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550232	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	1.1		1.000		106	80	120			

Sample ID	LCS-13489 MK	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R19040	RunNo:	19040					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550233	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	1.000	0	118	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406152

06-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R19041	RunNo:	19041					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550258	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	22		20.00		111	82.9	139			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R19041	RunNo:	19041					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550259	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	21	1.0	20.00	0	105	80	120			
Xylenes, Total	64	2.0	60.00	0	107	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		110	82.9	139			

Sample ID	1406152-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	W-1	Batch ID:	R19041	RunNo:	19041					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550262	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	600	20	400.0	168.4	109	71	129			
Toluene	1700	20	400.0	1252	115	68.4	135			
Ethylbenzene	510	20	400.0	91.56	104	69.4	135			
Xylenes, Total	2600	40	1200	1279	108	72.4	135			
Surr: 4-Bromofluorobenzene	470		400.0		116	82.9	139			

Sample ID	1406152-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	W-1	Batch ID:	R19041	RunNo:	19041					
Prep Date:		Analysis Date:	6/4/2014	SeqNo:	550263	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	600	20	400.0	168.4	107	71	129	1.15	20	
Toluene	1700	20	400.0	1252	110	68.4	135	1.12	20	
Ethylbenzene	510	20	400.0	91.56	104	69.4	135	0.403	20	
Xylenes, Total	2500	40	1200	1279	104	72.4	135	1.91	20	
Surr: 4-Bromofluorobenzene	490		400.0		123	82.9	139	0	0	

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 greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1406152

RcptNo: 1

Received by/date: [Signature] 6/4/2014

Logged By: Lindsay Mangin 6/4/2014 10:00:00 AM [Signature]

Completed By: Lindsay Mangin 6/4/2014 10:14:27 AM [Signature]

Reviewed By: CS 06/04/14

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

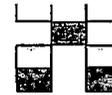
18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services LLC
 Mailing Address: 624 E Comanche Farmington NM 87401
 Phone #: 505 564 2281

Turn-Around Time: Standard Rush same day
 Project Name: Lateral R6 Ice Canyon
 Project #:



HA .L ENVIRONMENTAL . ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

email or Fax#: _____
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: NELAP Other _____
 EDD (Type) _____

Project Manager: D. Watson
 Sampler: E. Skyles
 On Ice Yes No
 Sample Temperature: 1 C

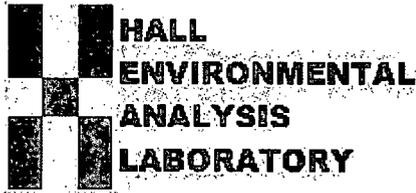
Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + THB + THB'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)	300.0 chemicals	Air Bubbles (Y or N)
6-3-14	1347	water	W-1	6-40mL VOA 1-50mL plastic	5-HCl 2-cold	406152 -001	X		X									X	
6-3-14	1428	soil	S-1	MEDHAT 1-4oz jar	MEDHAT cold	-002	X		X									X	

Date: 6/3/14 Time: 1645 Relinquished by: [Signature]
 Date: 6/3/14 Time: 1710 Relinquished by: [Signature]
 Received by: Christine Walters Date: 6/3/14 Time: 1645
 Received by: [Signature] Date: 06/04/14 Time: 1050

Remarks: Direct Pull to Williams Field Service

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



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

June 16, 2014

Anna Riling
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: Lateral R6 Ice Canyon

OrderNo.: 1406668

Dear Anna Riling:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/14/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-1@7.5'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 12:40:00 PM

Lab ID: 1406668-001

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 5:23:47 PM	13706
Surr: DNOP	84.9	57.9-140		%REC	1	6/15/2014 5:23:47 PM	13706
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	6.9	2.4		mg/Kg	1	6/15/2014 5:18:19 PM	R19268
Surr: BFB	205	80-120	S	%REC	1	6/15/2014 5:18:19 PM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/15/2014 10:37:05 AM	R19268
Toluene	ND	0.024		mg/Kg	1	6/15/2014 10:37:05 AM	R19268
Ethylbenzene	ND	0.024		mg/Kg	1	6/15/2014 10:37:05 AM	R19268
Xylenes, Total	ND	0.049		mg/Kg	1	6/15/2014 10:37:05 AM	R19268
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	6/15/2014 10:37:05 AM	R19268

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-2@7.5'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 1:22:00 PM

Lab ID: 1406668-002

Matrix: MEOH (SOIL) Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 5:47:04 PM	13706
Surr: DNOP	82.6	57.9-140		%REC	1	6/15/2014 5:47:04 PM	13706
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	2.5		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Surr: BFB	96.0	80-120		%REC	1	6/15/2014 11:34:27 AM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Toluene	ND	0.025		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Ethylbenzene	ND	0.025		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Xylenes, Total	ND	0.050		mg/Kg	1	6/15/2014 11:34:27 AM	R19268
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	6/15/2014 11:34:27 AM	R19268

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 greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-4@7.5'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 2:52:00 PM

Lab ID: 1406668-003

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2014 6:09:31 PM	13706
Surr: DNOP	83.7	57.9-140		%REC	1	6/15/2014 6:09:31 PM	13706
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Surr: BFB	95.7	80-120		%REC	1	6/15/2014 12:03:08 PM	R19268
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Toluene	ND	0.027		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Ethylbenzene	ND	0.027		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Xylenes, Total	ND	0.054		mg/Kg	1	6/15/2014 12:03:08 PM	R19268
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	6/15/2014 12:03:08 PM	R19268

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 greater than 2.
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#: 1406668

16-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	MB-13705	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13705	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556847	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		83.9	57.9	140			

Sample ID	MB-13706	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13706	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556848	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	8.2		10.00		82.0	57.9	140			

Sample ID	LCS-13705	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13705	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556849	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.6	57.9	140			

Sample ID	LCS-13706	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13706	RunNo:	19265					
Prep Date:	6/15/2014	Analysis Date:	6/15/2014	SeqNo:	556850	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	99.0	60.8	145			
Surr: DNOP	3.7		5.000		74.1	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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406668

16-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R19268	RunNo:	19268					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556911	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	930		1000		92.6	80	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R19268	RunNo:	19268					
Prep Date:		Analysis Date:	6/15/2014	SeqNo:	556912	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	104	71.7	134			
Surr: BFB	1000		1000		99.7	80	120			

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 greater than 2. |
| 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#: 1406668

16-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID: 5ML-RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R19268	RunNo: 19268								
Prep Date:	Analysis Date: 6/15/2014	SeqNo: 556924			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		100	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R19268	RunNo: 19268								
Prep Date:	Analysis Date: 6/15/2014	SeqNo: 556969			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

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 greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1406668 RcptNo: 1

Received by/date: [Signature] 06/14/14
 Logged By: Ashley Gallegos 6/14/2014 10:00:00 AM
 Completed By: Ashley Gallegos 6/14/2014 10:25:18 AM
 Reviewed By: [Signature] 06/14/14

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	1.9	Good	Yes			

Groundwater Laboratory Analytical Results

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	TPH - GRO (mg/L)	TPH - DRO (mg/L)	TPH - (GRO+DRO) (mg/L)
WQCC STANDARD		10	750	750	620	NE	NE	100
W-1	6/3/14	170	1,300	92	1,300	7.8	3.7	11.5
HP-1	6/11/14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<1.050
HP-2	6/11/14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<1.050
HP-3	6/11/14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<1.050
HP-4	6/12/14	<10	<10	430	3,100	42	610	652
WS-1	6/14/14	42	<1.0	26	210	1.9	<1.0	<2.9
WS-2	6/14/14	180	65	77	790	5.0	<1.0	<6.9

SAMPLES WERE ANALYZED PER EPA METHOD 8021 OR 8260 AND 8015D. NE - NOT ESTABLISHED

EXCAVATION CROSS SECTION

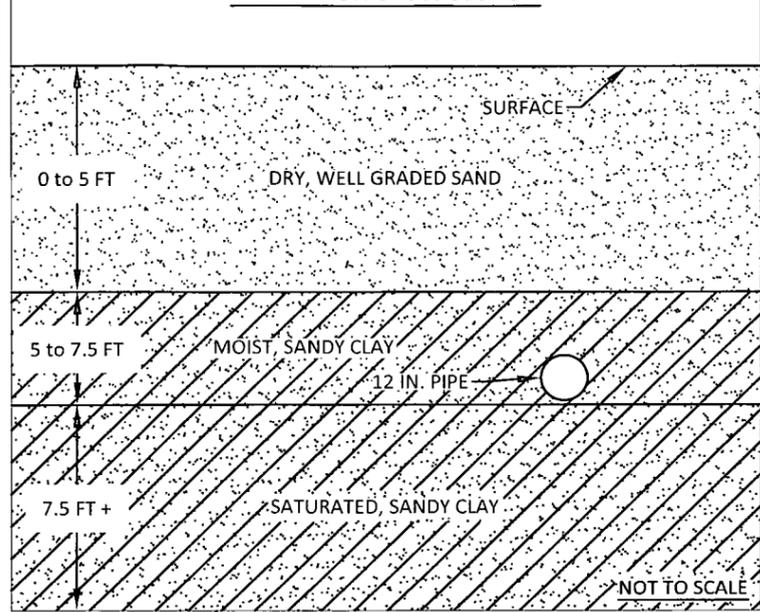


FIGURE 3

EXCAVATION ASSESSMENT SAMPLE LOCATIONS AND RESULTS
JUNE 2014
 WILLIAMS FOUR CORNERS LLC
 LATERAL R-6 ICE CANYON RELEASE
 NW¼ SE¼, SECTION 13, T26N, R7W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.48244, W107.52420



DRAWN BY: C. Lameman	DATE DRAWN: June 16, 2014
REVISIONS BY: C. Lameman	DATE REVISED: June 16, 2014
CHECKED BY: A. Riling	DATE CHECKED: June 16, 2014
APPROVED BY: E. McNally	DATE APPROVED: June 16, 2014

LEGEND

- ⊙ EXCAVATION SOIL SAMPLE LOCATIONS
- ⊕ HYDROPUNCH SAMPLE LOCATIONS
- ⊙ WATER SAMPLE LOCATIONS
- P — BURIED PIPELINE (APPROXIMATE)

NOTES: SAMPLES S-1 THROUGH S-10 WERE COLLECTED FROM MOIST SANDY CLAY AT 7 TO 7.5 FT BGS. THIS ZONE CONTAINED MOST OF THE HYDROCARBON IMPACT.

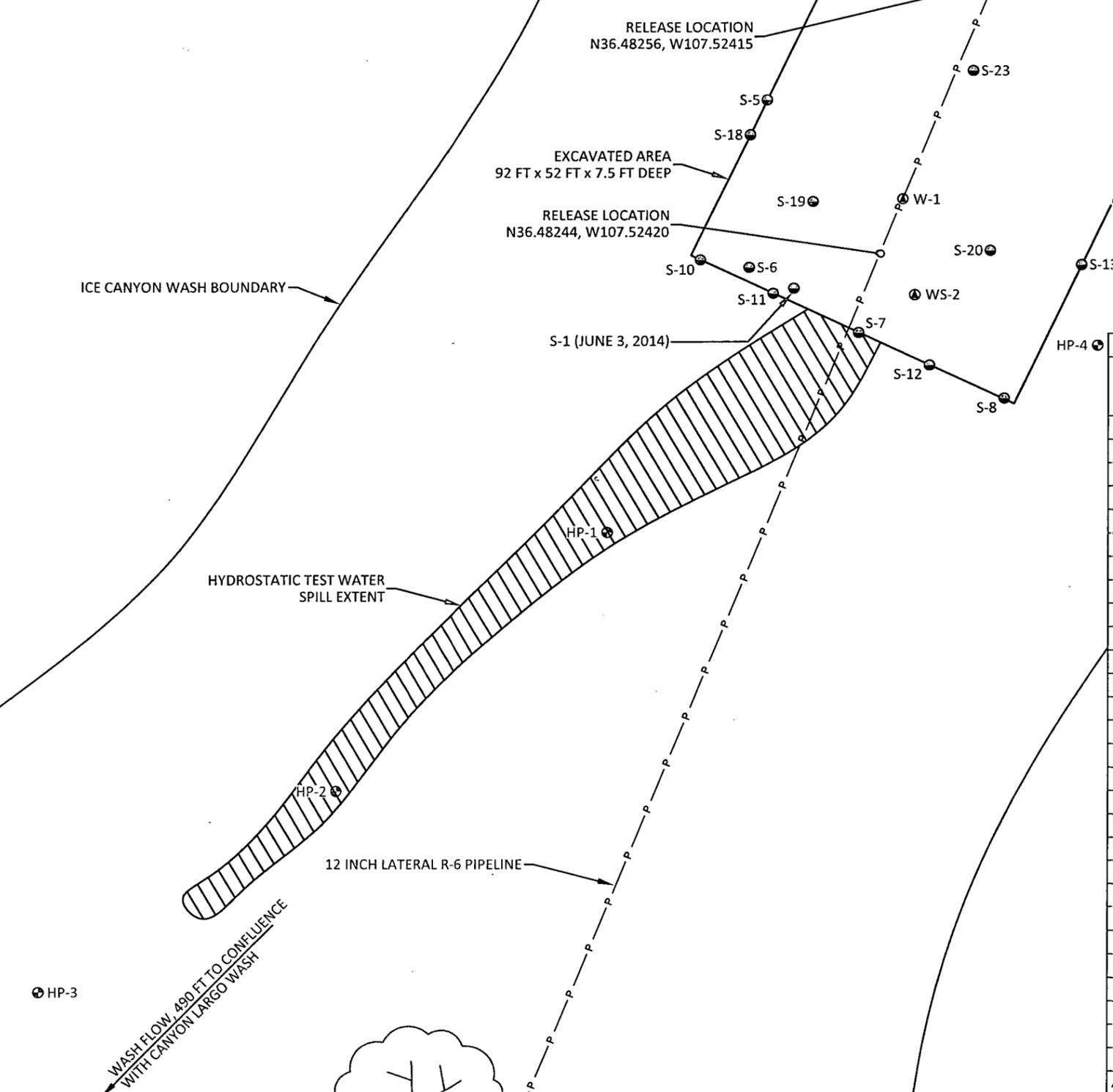
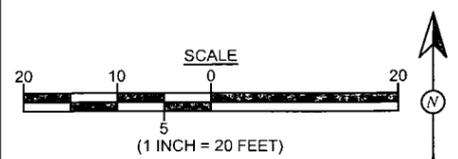
SAMPLES S-11 THROUGH S-18 WERE COLLECTED AT 4 FT BGS, MIDWALL.

SAMPLES S-19 THROUGH S-23 WERE COLLECTED FROM THE EXCAVATION BASE AT 7 TO 7.5 FT BGS, JUST ABOVE GROUNDWATER.

SAMPLE W-1 WAS A SAMPLE OF THE HYDROSTATIC TEST WATER COLLECTED DIRECTLY FROM THE PIPE.

SAMPLES WS-1 AND WS-2 WERE GROUNDWATER SAMPLES COLLECTED FROM THE OPEN EXCAVATION.

BETWEEN 20,000 AND 24,000 GALLONS OF GROUNDWATER WAS PUMPED OUT OF THE EXCAVATION OVER 4 DAYS.



Soil Laboratory Analytical Results

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylene (mg/kg)	BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH (mg/kg)
NMOC ACTION LEVEL			10	NE	NE	NE	50	NE		100
S-1	6/3/14	1	0.070	<0.14	0.79	6.2	7	130	27	157
HP-1	6/11/14	1	<0.026	<0.026	<0.026	<0.053	<0.131	<2.6	<9.9	<10.5
HP-2	6/11/14	1	<0.034	<0.034	<0.034	<0.068	<0.170	<3.4	<9.9	<10.3
HP-3	6/11/14	1	<0.035	<0.035	<0.035	<0.071	<0.176	<3.5	<9.9	<10.4
HP-4	6/12/14	--	NA	NA	NA	NA	NA	NA	NA	NA
S-1	6/13/14	7.5	<0.024	<0.024	<0.024	<0.049	<0.121	6.9	<9.9	<16.8
S-2	6/13/14	7.5	<0.025	<0.025	<0.025	<0.050	<0.125	<2.5	<9.9	<12.4
S-3	6/12/14	7	<0.032	<0.032	<0.032	<0.065	<0.161	<3.2	<9.9	<13.1
S-4	6/13/14	7.5	<0.027	<0.027	<0.027	<0.054	<0.135	<2.7	<9.9	<12.6
S-5	6/14/14	7	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<9.9	<14.6
S-8	6/14/14	7	<0.046	<0.046	<0.046	<0.091	<0.229	<4.6	<9.8	<14.4
S-7	6/14/14	7	<0.026	<0.026	<0.026	<0.053	<0.131	<2.6	<9.9	<14.8
S-9	6/14/14	7	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<9.9	<14.8
S-10	6/14/14	7	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<10	<14.8
S-11	6/14/14	4	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<10	<14.9
S-12	6/14/14	4	<0.049	<0.049	<0.049	<0.099	<0.246	<4.9	<10	<14.9
S-13	6/14/14	4	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<10	<14.8
S-14	6/14/14	4	<0.046	<0.046	<0.046	<0.092	<0.230	<4.6	<9.9	<14.5
S-15	6/14/14	4	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<10	<14.7
S-16	6/14/14	4	<0.045	<0.045	<0.045	<0.089	<0.224	<4.5	<10	<14.5
S-17	6/14/14	4	<0.040	<0.040	<0.040	<0.081	<0.201	<4.0	<9.8	<13.8
S-18	6/14/14	4	<0.034	<0.034	<0.034	<0.069	<0.171	<3.4	16	<19.4
S-19	6/14/14	7.5	<0.036	<0.036	0.038	0.38	0.42	49	24	73
S-20	6/14/14	7.5	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<9.8	<14.7
S-21	6/14/14	7.5	<0.049	<0.049	1.6	16	17.6	450	69	519
S-22	6/14/14	7.5	<0.048	<0.048	0.12	0.69	0.81	56	<9.9	<65.9
S-23	6/14/14	7.5	0.34	<0.19	0.98	8.8	10.1	250	110	360

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B OR 8260 AND 8015D.



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August 8, 2014

OIL CONS. DIV DIST. 3

Mr. Matt Webre, P.G.
Supervisor, Environmental Services
Williams Four Corners LLC
Bloomfield, NM 87413

SEP 02 2014

RE: Williams Four Corners Lateral R6 Ice Canyon Assessment Report
Rio Arriba County, New Mexico

Dear Mr. Webre:

CB&I Environmental & Infrastructure, Inc. has prepared this letter report to document the results of field assessment performed at the Lateral R6 Ice Canyon site. Field activities were performed according to the scope of work presented to the New Mexico Oil Conservation Division (NMOCD) and Bureau of Land Management (BLM) on June 26, 2014.

Soil Removal Summary

On June 3, 2014, the Lateral R-6 pipeline ruptured during a hydro-test resulting in the release of approximately 200 barrels (bbls) of hydrocarbon impacted water in the Ice Canyon wash. Between June 11 and 14, 2014, approximately 1,000 cubic yards (cy) of soil were excavated from the release site in an effort to remove potential hydrocarbon impacted soil. The excavation extended approximately 92 feet in length parallel to the pipeline, 51 feet in width, and 7.5 feet in depth. The depth to water was approximately 6 feet below grade as indicated by observed soil moisture during the excavating activities and static water level in the limits of the open excavation. The excavation limits were based on visual observations of stained soil, field screening for volatile organic compounds (VOCs) with a photo-ionization detector (PID), and laboratory analytical testing.

Soil analytical data indicates that the lateral extent of soil impact was delineated and excavated. **Table 1** below presents the analytical results for soil samples collected during excavation. Benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations were below the analytical detection limit in 20 of the 23 confirmation soil samples collected within the limits of the excavation. Since the depth to water was approximately 6 feet below grade, any soil samples collected below this depth were saturated. All post-excavation unsaturated soil sample detections were below the NMOCD Soil Action Levels.

Two soil samples collected below the water table contained total petroleum hydrocarbon (TPH) above the regulatory limit of 100 milligrams per kilogram (mg/kg). However, because these samples were collected below the water table in saturated conditions, results are not directly comparable to unsaturated soil standards.

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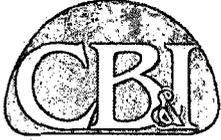
Table 1 – Excavation Soil Analytical Results

Sample ID	Depth Feet	Date Sampled	OVM-PID (ppmV)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	GRO (C6-C10) (mg/kg)	DRO (C10-C22) (mg/kg)	TPH (GRO+DRO) (mg/kg)
NMOC Action Level			NE	10	NE	NE	NE	50	NE	NE	100
S-1	1	6/3/14	NA	0.070	<0.14	0.79	6.2	7	130	27	157
HP-1	1	6/11/14	0.6	<0.026	<0.026	<0.026	<0.053	<0.131	<2.6	<9.9	<10.5
HP-2	1	6/11/14	1.2	<0.034	<0.034	<0.034	<0.068	<0.170	<3.4	<9.9	<10.3
HP-3	1	6/11/14	0.0	<0.035	<0.035	<0.035	<0.071	<0.176	<3.5	<9.9	<10.4
HP-4	1	6/12/14	5.2	NA	NA	NA	NA	NA	NA	NA	NA
S-1	7.5	6/13/14	29.2	<0.024	<0.024	<0.024	<0.049	<0.121	6.9	<9.9	<16.8
S-2	7.5	6/13/14	1.2	<0.025	<0.025	<0.025	<0.050	<0.125	<2.5	<9.9	<12.4
S-3	7	6/12/14	14.7	<0.032	<0.032	<0.032	<0.065	<0.161	<3.2	<9.9	<13.1
S-4	7.5	6/13/14	0.2	<0.027	<0.027	<0.027	<0.054	<0.135	<2.7	<9.9	<12.6
S-5	7	6/14/14	9.6	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<9.9	<14.6
S-7	7	6/14/14	1.2	<0.026	<0.026	<0.026	<0.053	<0.131	<2.6	<9.9	<10.5
S-8	7	6/14/14	0.2	<0.046	<0.046	<0.046	<0.091	<0.229	<4.6	<9.8	<14.4
S-9	7	6/14/14	1.1	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<9.9	<14.8
S-10	7	6/14/14	0.2	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<10	<14.8
S-11	4	6/14/14	NA	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<10	<14.9
S-12	4	6/14/14	NA	<0.049	<0.049	<0.049	<0.099	<0.246	<4.9	<10	<14.9
S-13	4	6/14/14	NA	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<10	<14.8
S-14	4	6/14/14	NA	<0.046	<0.046	<0.046	<0.092	<0.230	<4.6	<9.9	<14.5
S-15	4	6/14/14	NA	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<10	<14.7
S-16	4	6/14/14	NA	<0.045	<0.045	<0.045	<0.089	<0.224	<4.5	<10	<14.5
S-17	4	6/14/14	NA	<0.040	<0.040	<0.040	<0.081	<0.201	<4.0	<9.8	<13.8
S-18*	4	6/14/14	NA	<0.034	<0.034	<0.034	<0.069	<0.171	<3.4	16	<19.4
S-19*	7.5	6/14/14	NA	<0.036	<0.036	0.038	0.38	0.42	49	24	73
S-20*	7.5	6/14/14	NA	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<9.8	<14.7
S-21*	7.5	6/14/14	NA	<0.049	<0.049	1.6	16	17.6	450	69	519
S-22*	7.5	6/14/14	NA	<0.048	<0.048	0.12	0.69	0.81	56	<9.9	<65.9
S-23*	7.5	6/14/14	NA	0.34	<0.19	0.98	8.8	10.1	250	110	360

Notes:

- NA = Not Analyzed
- NE = Not Established
- *USEPA Sample Method 8260B

During excavation when impacted soil column and groundwater interaction was evident, BTEX and TPH concentrations were detected in water samples collected from the open excavation (W-1, WS-1, and WS-2) and at one location in the shallow aquifer immediately adjacent to the excavation (HP-4). These results are presented in **Table 2**. Based on these detections, a groundwater assessment scope



was proposed to the agencies to determine the possible hydrocarbon impact to the shallow aquifer. No further excavation of soil was necessary.

On July 3, 2014, two water samples (WS-1A and WS-2A) were collected from the open excavation to document the water condition prior to backfilling. Results of analysis were all below New Mexico Water Quality Control Commission (WQCC) standards as presented in **Table 2**.

Table 2 – Excavation Water Analytical Results

Sample ID	Date	DRO (mg/L)	GRO (mg/L)	TPH (DRO+GRO) (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)
WQCC Standards		NE	NE	100	10	750	750	620
W-1	6/3/2014	3.7	7.8	11.5	170	1,300	92	11,300
WS-1	6/14/14	<1.0	1.9	1.9	42	<1.0	26	210
WS-2	6/14/14	<1.0	5.0	5.0	180	65	77	790
WS-1A	7/3/2014	<1.0	0.051	0.051	1.5	<1.0	<1.0	<2.0
WS-2A	7/3/2014	<1.0	0.065	0.065	1.5	1.1	<1.0	<2.0

Notes:

- DRO - Diesel Range Organics (C10-C28)
- GRO - Gasoline Range Organics (C6-C10)
- NE - Not Established
- µg/L - Micrograms per liter
- mg/L - Milligrams per liter

Backfill and Assessment Activities

Between July 15 and 18, 2014, additional field activities were conducted to stabilize the site and to determine the nature and extent of the hydrocarbon concentrations in the shallow aquifer. These activities included backfilling the excavation, conducting a groundwater assessment, and installation of temporary piezometers.

Excavation Backfill

Backfilling of the excavation was recommended prior to conducting the assessment to provide protection to the environment, reduce the potential migration of hydrocarbons, provide a stable work platform to conduct assessment activities to determine the potential extent of residual hydrocarbons in the groundwater, and to provide protection to the exposed pipeline. Backfilling activities commenced on July 15, 2014 and were completed on July 18, 2014. Backfill material was obtained from a BLM-approved borrow source.

Groundwater Assessment

On July 17 and 18, 2014, a groundwater assessment was conducted to identify and delineate the potential extent of hydrocarbons in the shallow aquifer. Discrete groundwater samples were collected at locations within the limits of the former excavation to evaluate the potential presence of hydrocarbons in the shallow aquifer. Groundwater samples were collected at 17 sample locations; three within the limits of the excavation and 14 outside of the limits of the excavation.

mples were collected at two intervals within the limits of the excavation to document the possible residual dissolved hydrocarbons in the release area. Sample locations GP-2 selected to correspond with prior sample locations S-21 and S-23, respectively, where tions in saturated soil were previously detected. The samples were collected from 6 to 9 e and 12 to 15 feet below grade. The samples outside the limits of the excavation were top of the aquifer from depths of approximately 6 to 9 feet below grade. Samples were re HP-4 and GP-5 locations to correspond with the prior sample from HP-4. Sample justed as necessary based on the actual depth to groundwater as observed during on at each probe location.

amples were collected by advancing an SP22 discrete groundwater sampler to the target irect-push rig and retracting the rod housing to expose the sampler screen. Fluid in the sampler was purged to remove as much sediment as practical. A non-filtered mple was collected from each location and submitted to a New Mexico certified al petroleum hydrocarbons-diesel range organics (TPH-DRO) and total petroleum asoline range organics (TPH-GRO) analysis using EPA Method 8015 and BTEX EPA Method 8260B. One field duplicate sample was collected at GP-7. A trip blank ne cooler containing the samples for BTEX and TPH-GRO analysis. The probe hole d following sample collection by backfilling with granular bentonite. The discrete mple locations are illustrated in **Figure 1**. Coordinates for the discrete groundwater ns are provided in **Table 3**.

Table 3 – Groundwater Sample Location Coordinates

Sample Location ID	Latitude	Longitude
GP-1	36.48276481700	-107.52402414500
GP-2	36.48257156900	-107.52409577200
GP-3	36.48252249000	-107.52415851700
GP-4	36.48243072500	-107.52422012800
GP-5	36.48237153500	-107.52407149600
GP-6	36.48231170800	-107.52414160000
GP-7	36.48233602100	-107.52420434400
GP-8	36.48236734100	-107.52427039700
GP-9	36.48240207400	-107.52433236100
GP-11	36.48226630900	-107.52438980500
GP-10	36.48237153500	-107.52449634700
GP-12	36.48216371300	-107.52428063300
GP-13	36.48247281500	-107.52403203600
GP-14	36.48257278000	-107.52427800200
HP-4	36.48239953800	-107.52410714600
GP-15	36.48270292700	-107.52417029400
GP-16	36.48264987300	-107.52399552700



TPH and BTEX compounds were not detected in the shallow groundwater at concentrations at or above the WQCC Standards. Additionally, TPH or BTEX compounds were not detected in the groundwater samples collected from the 13 to 16 feet below grade interval. Groundwater sample locations and TPH and BTEX concentrations are illustrated in **Figure 2**. Groundwater analytical results are summarized in **Table 4**. Laboratory reports are included in **Appendix A**.

Table 4 – Groundwater Sample Analytical Results

Sample ID	Date	DRO (mg/L)	GRO (mg/L)	TPH (DRO+GRO) (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes Total (µg/L)
WQCC Standards		NE	NE	100	10	750	750	NE	NE	620
GP-1	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-2 (6-9)	7/18/2014	2.6	<0.20	2.6	4.1	<1.0	3.8	22	1.1	23
GP-2 (13-16)	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-3 (6-9)	7/18/2014	2.0	0.64	2.64	<1.0	<1.0	9.3	68	<1.0	68
GP-3 (13-16)	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-4 (6-9)	7/18/2014	<0.10	0.46	0.46	7.8	<1.0	13	82	9.8	92
GP-4 (13-16)	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	2.5	<1.0	<3.0
GP-5	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-6	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-7	7/18/2014	3.4	<0.20	3.4	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-8	7/18/2014	3.0	<0.20	3.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-9	7/18/2014	1.1	<0.20	1.1	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-10	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-11	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-12	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-13	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-14	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-15	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-16	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
HP-4	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0

Note:

- DRO - Diesel Range Organics (C10-28)
- GRO - Gasoline Range Organics (C6-C10)
- NE - Not Established
- ug/L - Micrograms per liter
- mg/L - Milligrams per liter

Temporary Piezometers

Temporary piezometers were installed at four locations to determine the direction of groundwater flow and the hydraulic gradient. The temporary piezometers were installed using a direct push rig to approximately 12 feet below grade or 5 feet below the water table. The piezometers were constructed of 1-inch nominal inside diameter polyvinyl chloride (PVC) casing and 5 feet of 0.010-inch factory



slotted well screen. The natural formation was allowed to collapse around the wells screen and casing to form a natural filter pack. Top of casing elevations were measured in the field and groundwater levels measured with an interface probe. The temporary piezometers were pulled from the probe holes and abandoned following the collection of groundwater level data. The locations of the temporary piezometers are illustrated in **Figure 3**.

A temporary bench mark was established at the site to measure the relative elevation of the temporary piezometers top of casing (TOC). Coordinates and TOC elevations for the temporary piezometers are provided in **Table 5**. Groundwater elevations were determined from the measured depth to water and TOC elevations at the individual the temporary piezometers. Groundwater flow in the vicinity of the release is to the southwest at a hydraulic gradient of 0.0003 feet per foot as illustrated in **Figure 3**.

Table 5 – Piezometer Gauging Results

Piezometer	Sample Location ID	Latitude	Longitude	TOC Elevation	Date	DTW	Groundwater Elevation
PZ-1	GP-1	36.48276481700	-107.52402414500	93.54	7/18/2014	6.27	87.27
PZ-2	GP-8	36.48236734100	-107.52427039700	92.50	7/18/2014	5.82	86.68
PZ-3	GP-10	36.48237153500	-107.52449634700	92.03	7/18/2014	5.55	86.48
PZ-4	GP-12	36.48216371300	-107.52428063300	93.51	7/18/2014	6.95	86.56

Summary and Conclusions

Following completion of initial remedial actions and the recent groundwater assessment, a summary of the findings and conclusions are provided below:

- Impacted soil from the release was excavated and disposed at an off-site disposal facility.
- Confirmation soil samples confirmed the lateral extents of the excavation are below NMOCD Soil Action Levels.
- Dissolved hydrocarbon concentrations in the exposed groundwater located within the limits of the excavation were below the WQCC Standards prior to backfilling.
- The excavation was backfilled with clean soil obtained from a BLM-approved source.
- Concentrations of dissolved hydrocarbons detected in the groundwater were all below the WQCC Standards.
- No concentrations were detected in the deeper groundwater interval beneath the former excavation indicating no vertical migration of hydrocarbons.
- Groundwater results from locations where prior saturated soil concentrations were detected indicate that residual hydrocarbon concentrations in soil are not a risk to groundwater quality.

Based on the findings and conclusions, the excavation of impacted soil surrounding the Lateral R-6 pipeline was successful in remediating hydrocarbons in the soil. The rapid implementation of the removal action was protective of the underlying groundwater and the assessment results indicate there is no impact to the shallow groundwater above the WQCC Standards. Hydrocarbons in the vadose zone were excavated during the removal action, eliminating the potential of impacting the groundwater in the future.



Based on the confirmation samples and groundwater samples collected during the assessment, the data demonstrated that there is no longer a risk to human health or the environment; therefore, no further action is warranted at this time.

If you have any questions or comments, please contact me at (720) 554-8198.

Sincerely,

A handwritten signature in black ink, appearing to read 'David Way', written over a faint, larger version of the signature.

David Way
Client Program Manager
CB&I Environmental & Infrastructure, Inc.

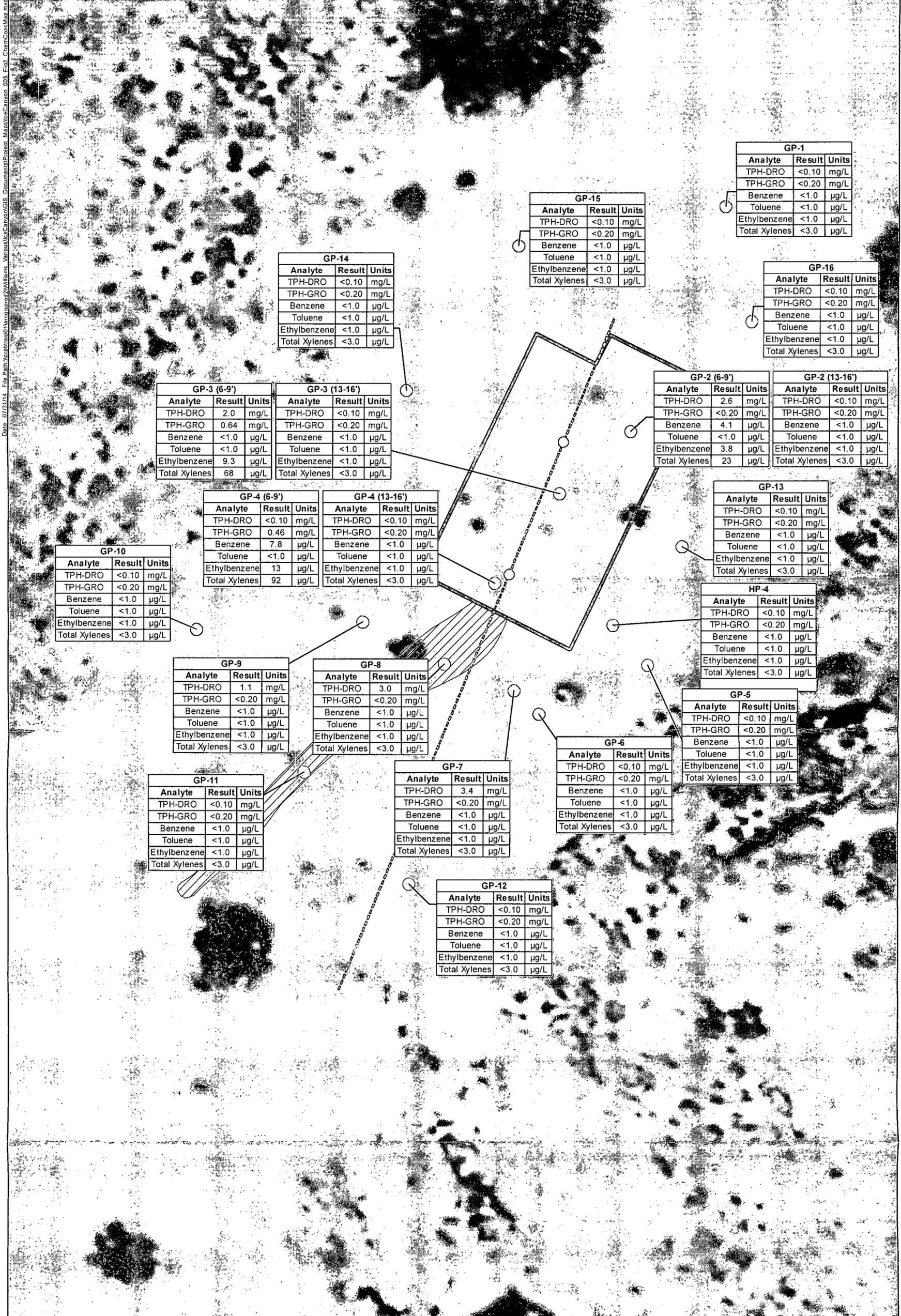
Please Reply To: David Way

Phone: 720.554.8198

E-Mail Address: david.way@cbi.com

Attachments

C: John Carey – Williams
Mark Finney – CB&I



GP-1		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-15		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-14		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-16		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-3 (6-9')		
Analyte	Result	Units
TPH-DRO	2.0	mg/L
TPH-GRO	0.64	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	9.3	µg/L
Total Xylenes	68	µg/L

GP-3 (13-16')		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-2 (6-9')		
Analyte	Result	Units
TPH-DRO	2.6	mg/L
TPH-GRO	<0.20	mg/L
Benzene	4.1	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	3.8	µg/L
Total Xylenes	23	µg/L

GP-2 (13-16')		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-4 (6-9')		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	0.46	mg/L
Benzene	7.8	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	13	µg/L
Total Xylenes	92	µg/L

GP-4 (13-16')		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-13		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-10		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

HP-4		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-9		
Analyte	Result	Units
TPH-DRO	1.1	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-8		
Analyte	Result	Units
TPH-DRO	3.0	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-5		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

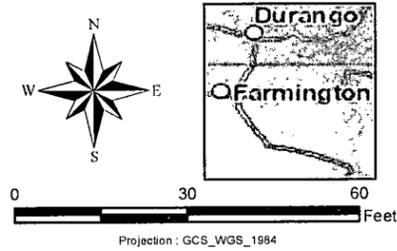
GP-11		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-7		
Analyte	Result	Units
TPH-DRO	3.4	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-6		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

GP-12		
Analyte	Result	Units
TPH-DRO	<0.10	mg/L
TPH-GRO	<0.20	mg/L
Benzene	<1.0	µg/L
Toluene	<1.0	µg/L
Ethylbenzene	<1.0	µg/L
Total Xylenes	<3.0	µg/L

- Groundwater Sample Location
- Spill Location
- ▭ Excavated Area
- ▨ Hydrostatic Test Water Spill Extent
- 12" Lateral R-6 Pipeline

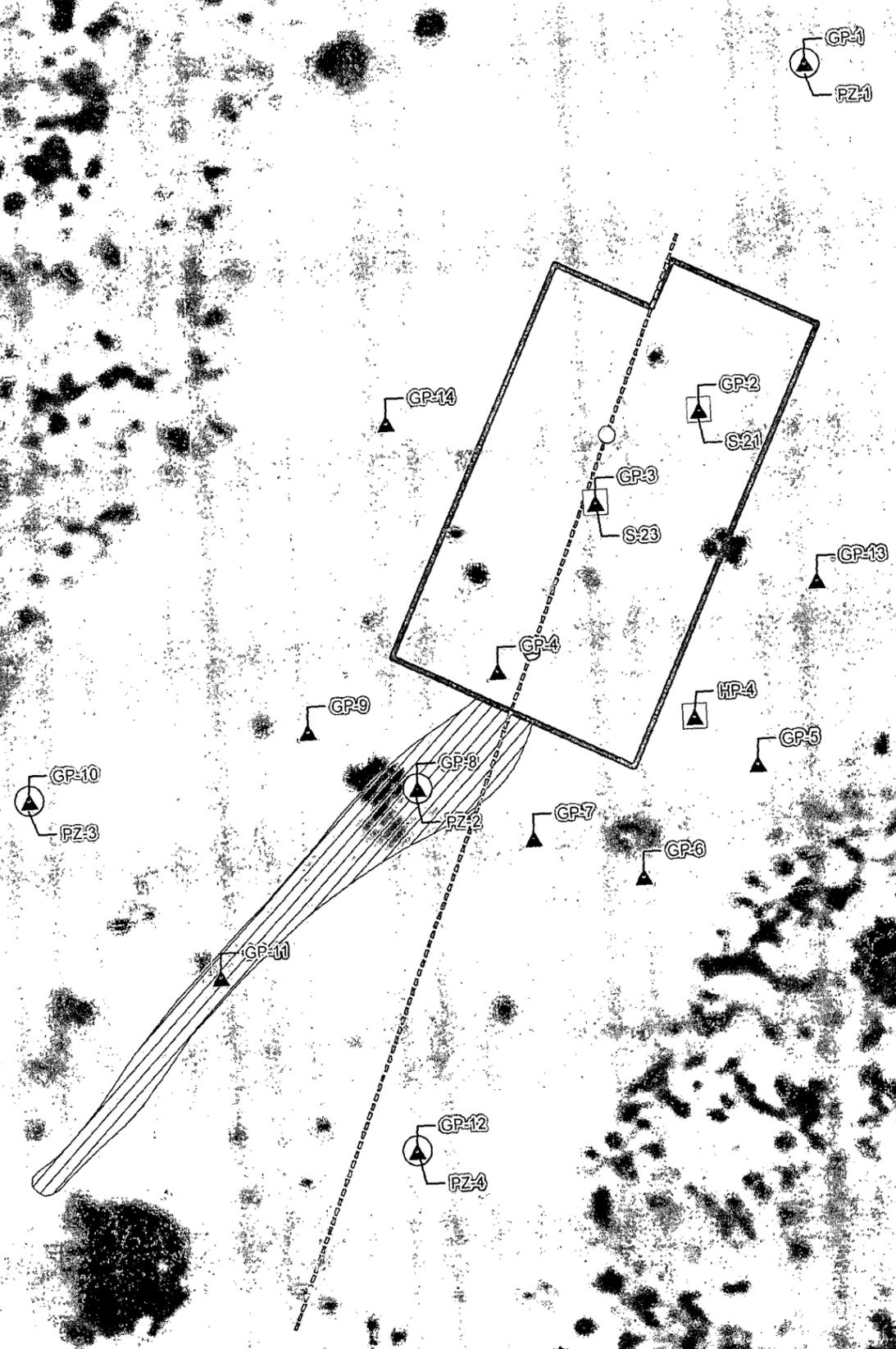


WILLIAMS FOUR CORNERS LLC

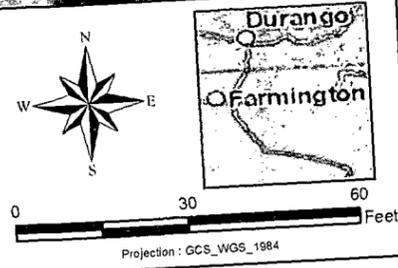
FIGURE 2
CHEMICAL CONCENTRATION MAP

CBI Environmental & Infrastructure, Inc.
6380 S. Fiddlers Green Circle
Greenwood Village, CO 80111

Date: 06/26/14 File Path: \\c:\projects\Williams_FourCorners\GIS_Documents\Project_Maps\Williams_FourCorners\GIS_Documents\GIS\Map_Samples_Loc.mxd



-  Excavated Area
-  Hydrostatic Test Water Spill Extent
-  12" Lateral R-6 Pipeline
-  Proposed Groundwater Sample
-  Proposed Temporary Piezometer
-  Spill Location
-  Existing Sample



WILLIAMS FOUR CORNERS LLC

FIGURE 1
SAMPLE LOCATION MAP



CB&I Environmental & Infrastructure, Inc.
6380 S. Fiddlers Green Circle
Greenwood Village, CO 80111

APPENDIX A
LABORATORY REPORT



29-Jul-2014

James Glover
CB&I Government Solutions, Inc.
11206 Thompson Ave.
Lenexa, KS 66219

Re: **Williams Ice Canyon 7.17-7.18.14**

Work Order: **14071088**

Dear James,

ALS Environmental received 22 samples on 22-Jul-2014 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 43.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



RIGHT SOLUTIONS RIGHT PARTNER

Client: CB&I Government Solutions, Inc.
 Project: Williams Ice Canyon 7.17-7.18.14
 Work Order: 14071088

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
14071088-01	GP-1	Groundwater		7/17/2014 11:45	7/22/2014 09:30	<input type="checkbox"/>
14071088-02	GP-16	Groundwater		7/17/2014 12:40	7/22/2014 09:30	<input type="checkbox"/>
14071088-03	GP-15	Groundwater		7/17/2014 13:45	7/22/2014 09:30	<input type="checkbox"/>
14071088-04	GP-14	Groundwater		7/17/2014 14:35	7/22/2014 09:30	<input type="checkbox"/>
14071088-05	GP-10	Groundwater		7/17/2014 15:20	7/22/2014 09:30	<input type="checkbox"/>
14071088-06	GP-12	Groundwater		7/17/2014 16:25	7/22/2014 09:30	<input type="checkbox"/>
14071088-07	GP-6	Groundwater		7/17/2014 17:00	7/22/2014 09:30	<input type="checkbox"/>
14071088-08	HP-4	Groundwater		7/17/2014 17:30	7/22/2014 09:30	<input type="checkbox"/>
14071088-09	GP-13	Groundwater		7/17/2014 18:00	7/22/2014 09:30	<input type="checkbox"/>
14071088-10	GP-5	Groundwater		7/18/2014 09:20	7/22/2014 09:30	<input type="checkbox"/>
14071088-11	GP-3 (13-16)	Groundwater		7/18/2014 10:00	7/22/2014 09:30	<input type="checkbox"/>
14071088-12	GP-3 (6-9)	Groundwater		7/18/2014 10:35	7/22/2014 09:30	<input type="checkbox"/>
14071088-13	GP-4 (13-16)	Groundwater		7/18/2014 11:05	7/22/2014 09:30	<input type="checkbox"/>
14071088-14	GP-4 (6-9)	Groundwater		7/18/2014 11:40	7/22/2014 09:30	<input type="checkbox"/>
14071088-15	GP-9	Groundwater		7/18/2014 12:05	7/22/2014 09:30	<input type="checkbox"/>
14071088-16	GP-7	Groundwater		7/18/2014 12:40	7/22/2014 09:30	<input type="checkbox"/>
14071088-17	GP-8	Groundwater		7/18/2014 13:30	7/22/2014 09:30	<input type="checkbox"/>
14071088-18	GP-11	Groundwater		7/18/2014 15:30	7/22/2014 09:30	<input type="checkbox"/>
14071088-19	GP-2 (6-9)	Groundwater		7/18/2014 14:15	7/22/2014 09:30	<input type="checkbox"/>
14071088-20	GP-2 (13-16)	Groundwater		7/18/2014 14:55	7/22/2014 09:30	<input type="checkbox"/>
14071088-21	FD	Groundwater		7/18/2014	7/22/2014 09:30	<input type="checkbox"/>
14071088-22	Trip Blank	Water		7/18/2014	7/22/2014 09:30	<input type="checkbox"/>

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Work Order: 14071088

Case Narrative

Batch R144965 MS/MSD data for BTEX is not related to this project's samples. No data requires qualification.

Batch R145020 MS/MSD data for GRO is not related to this project's samples. No data requires qualification.

Batch R145030 MS/MSD data for BTEX is not related to this project's samples. No data requires qualification.

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
WorkOrder: 14071088

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-1
Collection Date: 7/17/2014 11:45 AM

Work Order: 14071088
Lab ID: 14071088-01
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 01:40 PM
Surr: 4-Terphenyl-d14	99.1		31-176	%REC	1	7/24/2014 01:40 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 06:18 PM
Surr: Toluene-d8	107		70-130	%REC	1	7/23/2014 06:18 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 01:05 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 01:05 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 01:05 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 01:05 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 01:05 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 01:05 AM
Surr: 1,2-Dichloroethane-d4	95.9		75-120	%REC	1	7/24/2014 01:05 AM
Surr: 4-Bromofluorobenzene	87.8		80-110	%REC	1	7/24/2014 01:05 AM
Surr: Dibromofluoromethane	96.6		85-115	%REC	1	7/24/2014 01:05 AM
Surr: Toluene-d8	95.3		85-110	%REC	1	7/24/2014 01:05 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-16

Collection Date: 7/17/2014 12:40 PM

Work Order: 14071088

Lab ID: 14071088-02

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 07:41 PM
Surr: 4-Terphenyl-d14	84.3		31-176	%REC	1	7/24/2014 07:41 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 06:44 PM
Surr: Toluene-d8	110		70-130	%REC	1	7/23/2014 06:44 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 01:29 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 01:29 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 01:29 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 01:29 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 01:29 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 01:29 AM
Surr: 1,2-Dichloroethane-d4	94.6		75-120	%REC	1	7/24/2014 01:29 AM
Surr: 4-Bromofluorobenzene	88.0		80-110	%REC	1	7/24/2014 01:29 AM
Surr: Dibromofluoromethane	97.6		85-115	%REC	1	7/24/2014 01:29 AM
Surr: Toluene-d8	95.5		85-110	%REC	1	7/24/2014 01:29 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-15

Collection Date: 7/17/2014 01:45 PM

Work Order: 14071088

Lab ID: 14071088-03

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 08:10 PM
Surr: 4-Terphenyl-d14	91.3		31-176	%REC	1	7/24/2014 08:10 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 07:09 PM
Surr: Toluene-d8	109		70-130	%REC	1	7/23/2014 07:09 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 01:54 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 01:54 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 01:54 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 01:54 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 01:54 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 01:54 AM
Surr: 1,2-Dichloroethane-d4	98.0		75-120	%REC	1	7/24/2014 01:54 AM
Surr: 4-Bromofluorobenzene	87.0		80-110	%REC	1	7/24/2014 01:54 AM
Surr: Dibromofluoromethane	98.1		85-115	%REC	1	7/24/2014 01:54 AM
Surr: Toluene-d8	96.0		85-110	%REC	1	7/24/2014 01:54 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-14

Collection Date: 7/17/2014 02:35 PM

Work Order: 14071088

Lab ID: 14071088-04

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 08:41 PM
Surr: 4-Terphenyl-d14	93.7		31-176	%REC	1	7/24/2014 08:41 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 07:35 PM
Surr: Toluene-d8	108		70-130	%REC	1	7/23/2014 07:35 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 02:18 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 02:18 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 02:18 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 02:18 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 02:18 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 02:18 AM
Surr: 1,2-Dichloroethane-d4	98.6		75-120	%REC	1	7/24/2014 02:18 AM
Surr: 4-Bromofluorobenzene	86.0		80-110	%REC	1	7/24/2014 02:18 AM
Surr: Dibromofluoromethane	99.8		85-115	%REC	1	7/24/2014 02:18 AM
Surr: Toluene-d8	93.8		85-110	%REC	1	7/24/2014 02:18 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-10
Collection Date: 7/17/2014 03:20 PM

Work Order: 14071088
Lab ID: 14071088-05
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 09:11 PM
Surr: 4-Terphenyl-d14	98.0		31-176	%REC	1	7/24/2014 09:11 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 08:00 PM
Surr: Toluene-d8	109		70-130	%REC	1	7/23/2014 08:00 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 02:43 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 02:43 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 02:43 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 02:43 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 02:43 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 02:43 AM
Surr: 1,2-Dichloroethane-d4	99.8		75-120	%REC	1	7/24/2014 02:43 AM
Surr: 4-Bromofluorobenzene	87.0		80-110	%REC	1	7/24/2014 02:43 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/24/2014 02:43 AM
Surr: Toluene-d8	93.3		85-110	%REC	1	7/24/2014 02:43 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-12

Collection Date: 7/17/2014 04:25 PM

Work Order: 14071088

Lab ID: 14071088-06

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 09:41 PM
Surr: 4-Terphenyl-d14	48.9		31-176	%REC	1	7/24/2014 09:41 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 08:26 PM
Surr: Toluene-d8	109		70-130	%REC	1	7/23/2014 08:26 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 03:07 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 03:07 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 03:07 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 03:07 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 03:07 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 03:07 AM
Surr: 1,2-Dichloroethane-d4	101		75-120	%REC	1	7/24/2014 03:07 AM
Surr: 4-Bromofluorobenzene	84.4		80-110	%REC	1	7/24/2014 03:07 AM
Surr: Dibromofluoromethane	99.6		85-115	%REC	1	7/24/2014 03:07 AM
Surr: Toluene-d8	93.6		85-110	%REC	1	7/24/2014 03:07 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-6
Collection Date: 7/17/2014 05:00 PM

Work Order: 14071088
Lab ID: 14071088-07
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 10:41 PM
Surr: 4-Terphenyl-d14	98.6		31-176	%REC	1	7/24/2014 10:41 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 08:52 PM
Surr: Toluene-d8	112		70-130	%REC	1	7/23/2014 08:52 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 03:32 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 03:32 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 03:32 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 03:32 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 03:32 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 03:32 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 03:32 AM
Surr: 4-Bromofluorobenzene	85.0		80-110	%REC	1	7/24/2014 03:32 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/24/2014 03:32 AM
Surr: Toluene-d8	94.4		85-110	%REC	1	7/24/2014 03:32 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: HP-4
Collection Date: 7/17/2014 05:30 PM

Work Order: 14071088
Lab ID: 14071088-08
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 11:11 PM
Surr: 4-Terphenyl-d14	67.0		31-176	%REC	1	7/24/2014 11:11 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 09:43 PM
Surr: Toluene-d8	119		70-130	%REC	1	7/23/2014 09:43 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 03:57 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 03:57 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 03:57 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 03:57 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 03:57 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 03:57 AM
Surr: 1,2-Dichloroethane-d4	100		75-120	%REC	1	7/24/2014 03:57 AM
Surr: 4-Bromofluorobenzene	86.5		80-110	%REC	1	7/24/2014 03:57 AM
Surr: Dibromofluoromethane	102		85-115	%REC	1	7/24/2014 03:57 AM
Surr: Toluene-d8	95.4		85-110	%REC	1	7/24/2014 03:57 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-13

Collection Date: 7/17/2014 06:00 PM

Work Order: 14071088

Lab ID: 14071088-09

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 11:41 PM
Surr: 4-Terphenyl-d14	73.0		31-176	%REC	1	7/24/2014 11:41 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 10:08 PM
Surr: Toluene-d8	107		70-130	%REC	1	7/23/2014 10:08 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 04:21 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 04:21 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 04:21 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 04:21 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 04:21 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 04:21 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 04:21 AM
Surr: 4-Bromofluorobenzene	85.3		80-110	%REC	1	7/24/2014 04:21 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/24/2014 04:21 AM
Surr: Toluene-d8	93.8		85-110	%REC	1	7/24/2014 04:21 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-5

Collection Date: 7/18/2014 09:20 AM

Work Order: 14071088

Lab ID: 14071088-10

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 12:11 PM
Surr: 4-Terphenyl-d14	61.9		31-176	%REC	1	7/25/2014 12:11 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 10:34 PM
Surr: Toluene-d8	112		70-130	%REC	1	7/23/2014 10:34 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 04:46 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 04:46 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 04:46 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 04:46 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 04:46 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 04:46 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 04:46 AM
Surr: 4-Bromofluorobenzene	86.6		80-110	%REC	1	7/24/2014 04:46 AM
Surr: Dibromofluoromethane	104		85-115	%REC	1	7/24/2014 04:46 AM
Surr: Toluene-d8	92.8		85-110	%REC	1	7/24/2014 04:46 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-3 (13-16)
Collection Date: 7/18/2014 10:00 AM

Work Order: 14071088
Lab ID: 14071088-11
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 03:11 AM
Surr: 4-Terphenyl-d14	104		31-176	%REC	1	7/25/2014 03:11 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/23/2014 10:59 PM
Surr: Toluene-d8	110		70-130	%REC	1	7/23/2014 10:59 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 05:10 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 05:10 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 05:10 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 05:10 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 05:10 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 05:10 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 05:10 AM
Surr: 4-Bromofluorobenzene	85.2		80-110	%REC	1	7/24/2014 05:10 AM
Surr: Dibromofluoromethane	103		85-115	%REC	1	7/24/2014 05:10 AM
Surr: Toluene-d8	95.5		85-110	%REC	1	7/24/2014 05:10 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-3 (6-9)
Collection Date: 7/18/2014 10:35 AM

Work Order: 14071088
Lab ID: 14071088-12
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	2.0		0.10	mg/L	1	7/25/2014 04:12 AM
<i>Surr: 4-Terphenyl-d14</i>	58.4		31-176	%REC	1	7/25/2014 04:12 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	640		200	µg/L	1	7/24/2014 05:51 AM
<i>Surr: Toluene-d8</i>	123		70-130	%REC	1	7/24/2014 05:51 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 05:35 AM
Ethylbenzene	9.3		1.0	µg/L	1	7/24/2014 05:35 AM
m,p-Xylene	68		2.0	µg/L	1	7/24/2014 05:35 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 05:35 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 05:35 AM
Xylenes, Total	68		3.0	µg/L	1	7/24/2014 05:35 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	97.9		75-120	%REC	1	7/24/2014 05:35 AM
<i>Surr: 4-Bromofluorobenzene</i>	93.8		80-110	%REC	1	7/24/2014 05:35 AM
<i>Surr: Dibromofluoromethane</i>	98.8		85-115	%REC	1	7/24/2014 05:35 AM
<i>Surr: Toluene-d8</i>	101		85-110	%REC	1	7/24/2014 05:35 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-4 (13-16)

Collection Date: 7/18/2014 11:05 AM

Work Order: 14071088

Lab ID: 14071088-13

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 04:42 AM
Surr: 4-Terphenyl-d14	65.8		31-176	%REC	1	7/25/2014 04:42 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/24/2014 06:16 AM
Surr: Toluene-d8	107		70-130	%REC	1	7/24/2014 06:16 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 06:00 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 06:00 AM
m,p-Xylene	2.5		2.0	µg/L	1	7/24/2014 06:00 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 06:00 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 06:00 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 06:00 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 06:00 AM
Surr: 4-Bromofluorobenzene	86.3		80-110	%REC	1	7/24/2014 06:00 AM
Surr: Dibromofluoromethane	102		85-115	%REC	1	7/24/2014 06:00 AM
Surr: Toluene-d8	95.4		85-110	%REC	1	7/24/2014 06:00 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-4 (6-9)
Collection Date: 7/18/2014 11:40 AM

Work Order: 14071088
Lab ID: 14071088-14
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 05:12 AM
Surr: 4-Terphenyl-d14	88.1		31-176	%REC	1	7/25/2014 05:12 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	460		200	µg/L	1	7/24/2014 07:07 AM
Surr: Toluene-d8	124		70-130	%REC	1	7/24/2014 07:07 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	7.8		1.0	µg/L	1	7/24/2014 06:24 AM
Ethylbenzene	13		1.0	µg/L	1	7/24/2014 06:24 AM
m,p-Xylene	82		2.0	µg/L	1	7/24/2014 06:24 AM
o-Xylene	9.8		1.0	µg/L	1	7/24/2014 06:24 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 06:24 AM
Xylenes, Total	92		3.0	µg/L	1	7/24/2014 06:24 AM
Surr: 1,2-Dichloroethane-d4	100		75-120	%REC	1	7/24/2014 06:24 AM
Surr: 4-Bromofluorobenzene	97.3		80-110	%REC	1	7/24/2014 06:24 AM
Surr: Dibromofluoromethane	100		85-115	%REC	1	7/24/2014 06:24 AM
Surr: Toluene-d8	96.8		85-110	%REC	1	7/24/2014 06:24 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-9
Collection Date: 7/18/2014 12:05 PM

Work Order: 14071088
Lab ID: 14071088-15
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	1.1		0.10	mg/L	1	7/25/2014 05:42 AM
Surr: 4-Terphenyl-d14	38.7		31-176	%REC	1	7/25/2014 05:42 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/24/2014 07:33 AM
Surr: Toluene-d8	107		70-130	%REC	1	7/24/2014 07:33 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 06:49 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 06:49 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 06:49 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 06:49 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 06:49 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 06:49 AM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	7/24/2014 06:49 AM
Surr: 4-Bromofluorobenzene	90.6		80-110	%REC	1	7/24/2014 06:49 AM
Surr: Dibromofluoromethane	102		85-115	%REC	1	7/24/2014 06:49 AM
Surr: Toluene-d8	95.0		85-110	%REC	1	7/24/2014 06:49 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-7
Collection Date: 7/18/2014 12:40 PM

Work Order: 14071088
Lab ID: 14071088-16
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	3.4		0.10	mg/L	1	7/25/2014 06:12 AM
Surr: 4-Terphenyl-d14	63.7		31-176	%REC	1	7/25/2014 06:12 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/24/2014 07:58 AM
Surr: Toluene-d8	97.1		70-130	%REC	1	7/24/2014 07:58 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 07:14 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 07:14 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 07:14 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 07:14 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 07:14 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 07:14 AM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	7/24/2014 07:14 AM
Surr: 4-Bromofluorobenzene	85.4		80-110	%REC	1	7/24/2014 07:14 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/24/2014 07:14 AM
Surr: Toluene-d8	94.2		85-110	%REC	1	7/24/2014 07:14 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-8

Collection Date: 7/18/2014 01:30 PM

Work Order: 14071088

Lab ID: 14071088-17

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	3.0		0.10	mg/L	1	7/25/2014 06:42 AM
Surr: 4-Terphenyl-d14	89.5		31-176	%REC	1	7/25/2014 06:42 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/24/2014 08:24 AM
Surr: Toluene-d8	112		70-130	%REC	1	7/24/2014 08:24 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	ND		1.0	µg/L	1	7/24/2014 03:55 PM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 03:55 PM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 03:55 PM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 03:55 PM
Toluene	ND		1.0	µg/L	1	7/24/2014 03:55 PM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 03:55 PM
Surr: 1,2-Dichloroethane-d4	89.2		75-120	%REC	1	7/24/2014 03:55 PM
Surr: 4-Bromofluorobenzene	100		80-110	%REC	1	7/24/2014 03:55 PM
Surr: Dibromofluoromethane	96.2		85-115	%REC	1	7/24/2014 03:55 PM
Surr: Toluene-d8	97.4		85-110	%REC	1	7/24/2014 03:55 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-11

Collection Date: 7/18/2014 03:30 PM

Work Order: 14071088

Lab ID: 14071088-18

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 07:12 AM
Surr: 4-Terphenyl-d14	50.7		31-176	%REC	1	7/25/2014 07:12 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/24/2014 08:49 AM
Surr: Toluene-d8	109		70-130	%REC	1	7/24/2014 08:49 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 07:38 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 07:38 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 07:38 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 07:38 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 07:38 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 07:38 AM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	7/24/2014 07:38 AM
Surr: 4-Bromofluorobenzene	84.8		80-110	%REC	1	7/24/2014 07:38 AM
Surr: Dibromofluoromethane	103		85-115	%REC	1	7/24/2014 07:38 AM
Surr: Toluene-d8	95.0		85-110	%REC	1	7/24/2014 07:38 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-2 (6-9)
Collection Date: 7/18/2014 02:15 PM

Work Order: 14071088
Lab ID: 14071088-19
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	2.6		0.10	mg/L	1	7/25/2014 07:42 AM
Surr: 4-Terphenyl-d14	82.5		31-176	%REC	1	7/25/2014 07:42 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/24/2014 09:15 AM
Surr: Toluene-d8	106		70-130	%REC	1	7/24/2014 09:15 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	4.1		1.0	µg/L	1	7/24/2014 08:03 AM
Ethylbenzene	3.8		1.0	µg/L	1	7/24/2014 08:03 AM
m,p-Xylene	22		2.0	µg/L	1	7/24/2014 08:03 AM
o-Xylene	1.1		1.0	µg/L	1	7/24/2014 08:03 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 08:03 AM
Xylenes, Total	23		3.0	µg/L	1	7/24/2014 08:03 AM
Surr: 1,2-Dichloroethane-d4	101		75-120	%REC	1	7/24/2014 08:03 AM
Surr: 4-Bromofluorobenzene	93.8		80-110	%REC	1	7/24/2014 08:03 AM
Surr: Dibromofluoromethane	100		85-115	%REC	1	7/24/2014 08:03 AM
Surr: Toluene-d8	97.4		85-110	%REC	1	7/24/2014 08:03 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: GP-2 (13-16)
Collection Date: 7/18/2014 02:55 PM

Work Order: 14071088
Lab ID: 14071088-20
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 08:12 AM
Surr: 4-Terphenyl-d14	90.1		31-176	%REC	1	7/25/2014 08:12 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/24/2014 09:40 AM
Surr: Toluene-d8	107		70-130	%REC	1	7/24/2014 09:40 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	7/24/2014 08:27 AM
Ethylbenzene	ND		1.0	µg/L	1	7/24/2014 08:27 AM
m,p-Xylene	ND		2.0	µg/L	1	7/24/2014 08:27 AM
o-Xylene	ND		1.0	µg/L	1	7/24/2014 08:27 AM
Toluene	ND		1.0	µg/L	1	7/24/2014 08:27 AM
Xylenes, Total	ND		3.0	µg/L	1	7/24/2014 08:27 AM
Surr: 1,2-Dichloroethane-d4	106		75-120	%REC	1	7/24/2014 08:27 AM
Surr: 4-Bromofluorobenzene	85.8		80-110	%REC	1	7/24/2014 08:27 AM
Surr: Dibromofluoromethane	105		85-115	%REC	1	7/24/2014 08:27 AM
Surr: Toluene-d8	94.4		85-110	%REC	1	7/24/2014 08:27 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.
Project: Williams Ice Canyon 7.17-7.18.14
Sample ID: FD
Collection Date: 7/18/2014

Work Order: 14071088
Lab ID: 14071088-21
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	2.6		0.10	mg/L	1	7/25/2014 08:43 AM
Surr: 4-Terphenyl-d14	79.6		31-176	%REC	1	7/25/2014 08:43 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	7/24/2014 10:06 AM
Surr: Toluene-d8	92.9		70-130	%REC	1	7/24/2014 10:06 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	7/23/2014 05:56 AM
Ethylbenzene	ND		1.0	µg/L	1	7/23/2014 05:56 AM
m,p-Xylene	ND		2.0	µg/L	1	7/23/2014 05:56 AM
o-Xylene	ND		1.0	µg/L	1	7/23/2014 05:56 AM
Toluene	ND		1.0	µg/L	1	7/23/2014 05:56 AM
Xylenes, Total	ND		3.0	µg/L	1	7/23/2014 05:56 AM
Surr: 1,2-Dichloroethane-d4	93.8		75-120	%REC	1	7/23/2014 05:56 AM
Surr: 4-Bromofluorobenzene	99.2		80-110	%REC	1	7/23/2014 05:56 AM
Surr: Dibromofluoromethane	95.4		85-115	%REC	1	7/23/2014 05:56 AM
Surr: Toluene-d8	94.4		85-110	%REC	1	7/23/2014 05:56 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-14

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: Trip Blank

Collection Date: 7/18/2014

Work Order: 14071088

Lab ID: 14071088-22

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260		Analyst: BG	
Benzene	ND		1.0	µg/L	1	7/23/2014 03:47 AM
Ethylbenzene	ND		1.0	µg/L	1	7/23/2014 03:47 AM
m,p-Xylene	ND		2.0	µg/L	1	7/23/2014 03:47 AM
o-Xylene	ND		1.0	µg/L	1	7/23/2014 03:47 AM
Toluene	ND		1.0	µg/L	1	7/23/2014 03:47 AM
Xylenes, Total	ND		3.0	µg/L	1	7/23/2014 03:47 AM
Surr: 1,2-Dichloroethane-d4	95.4		75-120	%REC	1	7/23/2014 03:47 AM
Surr: 4-Bromofluorobenzene	98.0		80-110	%REC	1	7/23/2014 03:47 AM
Surr: Dibromofluoromethane	94.4		85-115	%REC	1	7/23/2014 03:47 AM
Surr: Toluene-d8	92.9		85-110	%REC	1	7/23/2014 03:47 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: CB&I Government Solutions, Inc.

QC BATCH REPORT

Work Order: 14071088

Project: Williams Ice Canyon 7.17-7.18.14

Batch ID: 60872 Instrument ID GC8 Method: SW8015M

MBLK		Sample ID: DBLKW1-60872-60872				Units: mg/L		Analysis Date: 7/24/2014 11:40 AM			
Client ID:		Run ID: GC8_140724B				SeqNo: 2862381		Prep Date: 7/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	ND	0.10									
Surr: 4-Terphenyl-d14	0.1149	0	0.1143	0	101	31-176	0				

LCS		Sample ID: DLCSW1-60872-60872				Units: mg/L		Analysis Date: 7/24/2014 12:10 PM			
Client ID:		Run ID: GC8_140724B				SeqNo: 2862382		Prep Date: 7/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	5.68	0.10	11.43	0	49.7	35-95	0				
Surr: 4-Terphenyl-d14	0.1141	0	0.1143	0	99.8	31-176	0				

MS		Sample ID: 14071088-01A MS				Units: mg/L		Analysis Date: 7/24/2014 12:40 PM			
Client ID: GP-1		Run ID: GC8_140724B				SeqNo: 2862384		Prep Date: 7/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	22.08	0.35	40	0	55.2	29-96	0				
Surr: 4-Terphenyl-d14	0.4055	0	0.4	0	101	31-176	0				

MSD		Sample ID: 14071088-01A MSD				Units: mg/L		Analysis Date: 7/24/2014 01:10 PM			
Client ID: GP-1		Run ID: GC8_140724B				SeqNo: 2862386		Prep Date: 7/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	21.04	0.35	40	0	52.6	29-96	22.08	4.82	30		
Surr: 4-Terphenyl-d14	0.4199	0	0.4	0	105	31-176	0.4055	3.49	30		

The following samples were analyzed in this batch:	14071088-01A	14071088-02A	14071088-03A
	14071088-04A	14071088-05A	14071088-06A
	14071088-07A	14071088-08A	14071088-09A
	14071088-10A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: CB&I Government Solutions, Inc.
 Work Order: 14071088
 Project: Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: 60927 Instrument ID GC8 Method: SW8015M

MBLK		Sample ID: DBLKW1-60927-60927				Units: mg/L		Analysis Date: 7/25/2014 12:41 PM			
Client ID:		Run ID: GC8_140724B				SeqNo: 2862446		Prep Date: 7/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	ND	0.10									
Surr: 4-Terphenyl-d14	0.1244	0	0.1143		0	109	31-176		0		

LCS		Sample ID: DLCSW1-60927-60927				Units: mg/L		Analysis Date: 7/25/2014 01:11 AM			
Client ID:		Run ID: GC8_140724B				SeqNo: 2862420		Prep Date: 7/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	5.457	0.10	11.43		0	47.7	35-95		0		
Surr: 4-Terphenyl-d14	0.1164	0	0.1143		0	102	31-176		0		

MS		Sample ID: 14071161-01A MS				Units: mg/L		Analysis Date: 7/25/2014 01:41 AM			
Client ID:		Run ID: GC8_140724B				SeqNo: 2862421		Prep Date: 7/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	6.147	0.10	11.43		0	53.8	29-96		0		
Surr: 4-Terphenyl-d14	0.1192	0	0.1143		0	104	31-176		0		

MSD		Sample ID: 14071161-01A MSD				Units: mg/L		Analysis Date: 7/25/2014 02:11 AM			
Client ID:		Run ID: GC8_140724B				SeqNo: 2862423		Prep Date: 7/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	5.976	0.10	11.43		0	52.3	29-96	6.147	2.82	30	
Surr: 4-Terphenyl-d14	0.1253	0	0.1143		0	110	31-176	0.1192	4.97	30	

The following samples were analyzed in this batch:

14071088-11A	14071088-12A	14071088-13A
14071088-14A	14071088-15A	14071088-16A
14071088-17A	14071088-18A	14071088-19A
14071088-20A	14071088-21A	

Client: CB&I Government Solutions, Inc.
 Work Order: 14071088
 Project: Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R145002 Instrument ID GC9 Method: SW8015

MBLK		Sample ID: GBLKW1-140723-R145002				Units: µg/L		Analysis Date: 7/23/2014 12:48 PM		
Client ID:		Run ID: GC9_140723A		SeqNo: 2860245		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	112.6	0	100	0	113	70-130	0			

LCS		Sample ID: GLCSW1-140723-R145002				Units: µg/L		Analysis Date: 7/23/2014 12:22 PM		
Client ID:		Run ID: GC9_140723A		SeqNo: 2860244		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	10320	200	10000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	92.21	0	100	0	92.2	70-130	0			

MS		Sample ID: 1407976-01D MS				Units: µg/L		Analysis Date: 7/23/2014 02:29 PM		
Client ID:		Run ID: GC9_140723A		SeqNo: 2860249		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	12470	200	10000	0	125	70-130	0			
<i>Surr: Toluene-d8</i>	99.06	0	100	0	99.1	70-130	0			

MSD		Sample ID: 1407976-01D MSD				Units: µg/L		Analysis Date: 7/23/2014 02:55 PM		
Client ID:		Run ID: GC9_140723A		SeqNo: 2860250		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	11540	200	10000	0	115	70-130	12470	7.77	30	
<i>Surr: Toluene-d8</i>	92.68	0	100	0	92.7	70-130	99.06	6.65	30	

The following samples were analyzed in this batch:

14071088-01B	14071088-02B	14071088-03B
14071088-04B	14071088-05B	14071088-06B
14071088-07B	14071088-08B	14071088-09B
14071088-10B	14071088-11B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: CB&I Government Solutions, Inc.
 Work Order: 14071088
 Project: Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R145020 Instrument ID GC9 Method: SW8015

MBLK		Sample ID: GBLKW2-140723-R145020				Units: µg/L		Analysis Date: 7/23/2014 11:50 PM		
Client ID:		Run ID: GC9_140723B				SeqNo: 2860575		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
Surr: Toluene-d8	113.5	0	100	0	114	70-130	0			

LCS		Sample ID: GLCSW2-140723-R145020				Units: µg/L		Analysis Date: 7/23/2014 11:24 PM		
Client ID:		Run ID: GC9_140723B				SeqNo: 2860574		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	9944	200	10000	0	99.4	70-130	0			
Surr: Toluene-d8	91.94	0	100	0	91.9	70-130	0			

MS		Sample ID: 14071153-01A MS				Units: µg/L		Analysis Date: 7/24/2014 12:41 PM		
Client ID:		Run ID: GC9_140723B				SeqNo: 2860605		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	6944	200	10000	0	69.4	70-130	0			S
Surr: Toluene-d8	102.3	0	100	0	102	70-130	0			

MSD		Sample ID: 14071153-01A MSD				Units: µg/L		Analysis Date: 7/24/2014 01:06 AM		
Client ID:		Run ID: GC9_140723B				SeqNo: 2860577		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	7617	200	10000	0	76.2	70-130	6944	9.24	30	
Surr: Toluene-d8	102.5	0	100	0	103	70-130	102.3	0.244	30	

The following samples were analyzed in this batch:

14071088-12B	14071088-13B	14071088-14B
14071088-15B	14071088-16B	14071088-17B
14071088-18B	14071088-19B	14071088-20B
14071088-21B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: CB&I Government Solutions, Inc.
 Work Order: 14071088
 Project: Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R144965 Instrument ID VMS6 Method: SW8260

MBLK		Sample ID: VBLKW2-140722-R144965				Units: µg/L		Analysis Date: 7/23/2014 02:55 AM			
Client ID:		Run ID: VMS6_140722B				SeqNo: 2859509		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	ND	1.0									
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	2.0									
o-Xylene	ND	1.0									
Toluene	ND	1.0									
Xylenes, Total	ND	3.0									
Surr: 1,2-Dichloroethane-d4	19.31	0	20	0	96.6	75-120	0				
Surr: 4-Bromofluorobenzene	20.04	0	20	0	100	80-110	0				
Surr: Dibromofluoromethane	19.09	0	20	0	95.4	85-115	0				
Surr: Toluene-d8	18.46	0	20	0	92.3	85-110	0				

LCS		Sample ID: VLCSW2-140722-R144965				Units: µg/L		Analysis Date: 7/23/2014 02:03 AM			
Client ID:		Run ID: VMS6_140722B				SeqNo: 2859508		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	20.41	1.0	20	0	102	85-125	0				
Ethylbenzene	19.49	1.0	20	0	97.4	85-125	0				
m,p-Xylene	38.93	2.0	40	0	97.3	75-130	0				
o-Xylene	19.91	1.0	20	0	99.6	80-125	0				
Toluene	19.03	1.0	20	0	95.2	85-125	0				
Xylenes, Total	58.84	3.0	60	0	98.1	80-126	0				
Surr: 1,2-Dichloroethane-d4	19.01	0	20	0	95	75-120	0				
Surr: 4-Bromofluorobenzene	20.39	0	20	0	102	80-110	0				
Surr: Dibromofluoromethane	20.1	0	20	0	100	85-115	0				
Surr: Toluene-d8	18.47	0	20	0	92.4	85-110	0				

MS		Sample ID: 14071051-05A MS				Units: µg/L		Analysis Date: 7/23/2014 12:00 PM			
Client ID:		Run ID: VMS6_140722B				SeqNo: 2859635		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	12.98	1.0	10	0	130	85-125	0			S	
Ethylbenzene	12.45	1.0	10	0	124	85-125	0				
m,p-Xylene	24.86	2.0	20	0	124	75-130	0				
o-Xylene	12.52	1.0	10	0	125	80-125	0			S	
Toluene	12.42	1.0	10	0	124	85-125	0				
Xylenes, Total	37.38	3.0	30	0	125	80-126	0				
Surr: 1,2-Dichloroethane-d4	18.61	0	20	0	93	75-120	0				
Surr: 4-Bromofluorobenzene	20.6	0	20	0	103	80-110	0				
Surr: Dibromofluoromethane	19.38	0	20	0	96.9	85-115	0				
Surr: Toluene-d8	18.9	0	20	0	94.5	85-110	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: CB&I Government Solutions, Inc.
 Work Order: 14071088
 Project: Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R144965 Instrument ID VMS6 Method: SW8260

MSD		Sample ID: 14071051-05A MSD		Units: µg/L		Analysis Date: 7/23/2014 12:25 PM				
Client ID:		Run ID: VMS6_140722B		SeqNo: 2859636		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	12.63	1.0	10	0	126	85-125	12.98	2.73	30	S
Ethylbenzene	11.82	1.0	10	0	118	85-125	12.45	5.19	30	
m,p-Xylene	23.77	2.0	20	0	119	75-130	24.86	4.48	30	
o-Xylene	11.88	1.0	10	0	119	80-125	12.52	5.25	30	
Toluene	11.79	1.0	10	0	118	85-125	12.42	5.2	30	
Xylenes, Total	35.65	3.0	30	0	119	80-126	37.38	4.74	30	
Surr: 1,2-Dichloroethane-d4	19.2	0	20	0	96	75-120	18.61	3.12	30	
Surr: 4-Bromofluorobenzene	20.43	0	20	0	102	80-110	20.6	0.829	30	
Surr: Dibromofluoromethane	19.62	0	20	0	98.1	85-115	19.38	1.23	30	
Surr: Toluene-d8	18.58	0	20	0	92.9	85-110	18.9	1.71	30	

The following samples were analyzed in this batch: | 14071088-21B | 14071088-22A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: CB&I Government Solutions, Inc.
 Work Order: 14071088
 Project: Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R145011 Instrument ID VMS9 Method: SW8260

MBLK		Sample ID: VBLKW2-140723-R145011			Units: µg/L		Analysis Date: 7/24/2014 12:40 PM			
Client ID:		Run ID: VMS9_140723B			SeqNo: 2861006		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	19.38	0	20	0	96.9	75-120	0			
Surr: 4-Bromofluorobenzene	17.54	0	20	0	87.7	80-110	0			
Surr: Dibromofluoromethane	19.21	0	20	0	96	85-115	0			
Surr: Toluene-d8	19.01	0	20	0	95	85-110	0			

LCS		Sample ID: VLCSW2-140723-R145011			Units: µg/L		Analysis Date: 7/23/2014 11:26 PM			
Client ID:		Run ID: VMS9_140723B			SeqNo: 2860983		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.88	1.0	20	0	99.4	85-125	0			
Ethylbenzene	19.49	1.0	20	0	97.4	85-125	0			
m,p-Xylene	39.71	2.0	40	0	99.3	75-130	0			
o-Xylene	19.8	1.0	20	0	99	80-125	0			
Toluene	20.95	1.0	20	0	105	85-125	0			
Xylenes, Total	59.51	3.0	60	0	99.2	80-126	0			
Surr: 1,2-Dichloroethane-d4	17.7	0	20	0	88.5	75-120	0			
Surr: 4-Bromofluorobenzene	21.03	0	20	0	105	80-110	0			
Surr: Dibromofluoromethane	18.12	0	20	0	90.6	85-115	0			
Surr: Toluene-d8	20.1	0	20	0	100	85-110	0			

MS		Sample ID: 14071088-05B MS			Units: µg/L		Analysis Date: 7/24/2014 09:17 AM			
Client ID: GP-10		Run ID: VMS9_140723B			SeqNo: 2861004		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.87	1.0	20	0	104	85-125	0			
Ethylbenzene	18.74	1.0	20	0	93.7	85-125	0			
m,p-Xylene	38.43	2.0	40	0	96.1	75-130	0			
o-Xylene	18.8	1.0	20	0	94	80-125	0			
Toluene	20.5	1.0	20	0	102	85-125	0			
Xylenes, Total	57.23	3.0	60	0	95.4	80-126	0			
Surr: 1,2-Dichloroethane-d4	19.2	0	20	0	96	75-120	0			
Surr: 4-Bromofluorobenzene	20.93	0	20	0	105	80-110	0			
Surr: Dibromofluoromethane	19.58	0	20	0	97.9	85-115	0			
Surr: Toluene-d8	20.15	0	20	0	101	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: CB&I Government Solutions, Inc.
 Work Order: 14071088
 Project: Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R145011 Instrument ID VMS9 Method: SW8260

MSD		Sample ID: 14071088-05B MSD		Units: µg/L		Analysis Date: 7/24/2014 09:41 AM				
Client ID: GP-10		Run ID: VMS9_140723B		SeqNo: 2861005		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.75	1.0	20	0	104	85-125	20.87	0.577	30	
Ethylbenzene	18.5	1.0	20	0	92.5	85-125	18.74	1.29	30	
m,p-Xylene	37.97	2.0	40	0	94.9	75-130	38.43	1.2	30	
o-Xylene	18.43	1.0	20	0	92.2	80-125	18.8	1.99	30	
Toluene	20.27	1.0	20	0	101	85-125	20.5	1.13	30	
Xylenes, Total	56.4	3.0	60	0	94	80-126	57.23	1.46	30	
Surr: 1,2-Dichloroethane-d4	19.12	0	20	0	95.6	75-120	19.2	0.418	30	
Surr: 4-Bromofluorobenzene	20.62	0	20	0	103	80-110	20.93	1.49	30	
Surr: Dibromofluoromethane	19.38	0	20	0	96.9	85-115	19.58	1.03	30	
Surr: Toluene-d8	19.98	0	20	0	99.9	85-110	20.15	0.847	30	

The following samples were analyzed in this batch:

14071088-01B	14071088-02B	14071088-03B
14071088-04B	14071088-05B	14071088-06B
14071088-07B	14071088-08B	14071088-09B
14071088-10B	14071088-11B	14071088-12B
14071088-13B	14071088-14B	14071088-15B
14071088-16B	14071088-17B	14071088-18B
14071088-19B	14071088-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: CB&I Government Solutions, Inc.
 Work Order: 14071088
 Project: Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R145030 Instrument ID VMS7 Method: SW8260

MBLK		Sample ID: VBLKW1-140724-R145030			Units: µg/L		Analysis Date: 7/24/2014 10:50 AM			
Client ID:		Run ID: VMS7_140724A			SeqNo: 2861807		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	17.76	0	20	0	88.8	75-120	0			
Surr: 4-Bromofluorobenzene	19.42	0	20	0	97.1	80-110	0			
Surr: Dibromofluoromethane	19.37	0	20	0	96.8	85-115	0			
Surr: Toluene-d8	19.51	0	20	0	97.6	85-110	0			

LCS		Sample ID: VLCSW1-140724-R145030			Units: µg/L		Analysis Date: 7/24/2014 09:08 AM			
Client ID:		Run ID: VMS7_140724A			SeqNo: 2861806		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.97	1.0	20	0	99.8	85-125	0			
Ethylbenzene	20.63	1.0	20	0	103	85-125	0			
m,p-Xylene	41.21	2.0	40	0	103	75-130	0			
o-Xylene	20.28	1.0	20	0	101	80-125	0			
Toluene	20.4	1.0	20	0	102	85-125	0			
Xylenes, Total	61.49	3.0	60	0	102	80-126	0			
Surr: 1,2-Dichloroethane-d4	17.18	0	20	0	85.9	75-120	0			
Surr: 4-Bromofluorobenzene	19.13	0	20	0	95.6	80-110	0			
Surr: Dibromofluoromethane	19.39	0	20	0	97	85-115	0			
Surr: Toluene-d8	19.44	0	20	0	97.2	85-110	0			

MS		Sample ID: 14071019-02A MS			Units: µg/L		Analysis Date: 7/24/2014 07:15 PM			
Client ID:		Run ID: VMS7_140724A			SeqNo: 2862010		Prep Date:		DF: 2000	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52580	2,000	40000	23940	71.6	85-125	0			S
Ethylbenzene	43760	2,000	40000	17740	65	85-125	0			S
m,p-Xylene	87600	4,000	80000	37720	62.4	75-130	0			S
o-Xylene	43540	2,000	40000	18380	62.9	80-125	0			S
Toluene	77700	2,000	40000	89460	-29.4	85-125	0			S
Xylenes, Total	131100	6,000	120000	56100	62.5	80-126	0			S
Surr: 1,2-Dichloroethane-d4	35120	0	40000	0	87.8	75-120	0			
Surr: 4-Bromofluorobenzene	38560	0	40000	0	96.4	80-110	0			
Surr: Dibromofluoromethane	38640	0	40000	0	96.6	85-115	0			
Surr: Toluene-d8	38540	0	40000	0	96.4	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: CB&I Government Solutions, Inc.
 Work Order: 14071088
 Project: Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R145030 Instrument ID VMS7 Method: SW8260

MSD		Sample ID: 14071019-02A MSD			Units: µg/L			Analysis Date: 7/24/2014 07:40 PM			
Client ID:		Run ID: VMS7_140724A			SeqNo: 2862011			Prep Date:		DF: 2000	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	52860	2,000	40000	23940	72.3	85-125	52580	0.531	30	S	
Ethylbenzene	44520	2,000	40000	17740	67	85-125	43760	1.72	30	S	
m,p-Xylene	88780	4,000	80000	37720	63.8	75-130	87600	1.34	30	S	
o-Xylene	43760	2,000	40000	18380	63.4	80-125	43540	0.504	30	S	
Toluene	77700	2,000	40000	89460	-29.4	85-125	77700	0	30	S	
Xylenes, Total	132500	6,000	120000	56100	63.7	80-126	131100	1.06	30	S	
Surr: 1,2-Dichloroethane-d4	34700	0	40000	0	86.8	75-120	35120	1.2	30		
Surr: 4-Bromofluorobenzene	39240	0	40000	0	98.1	80-110	38560	1.75	30		
Surr: Dibromofluoromethane	38100	0	40000	0	95.2	85-115	38640	1.41	30		
Surr: Toluene-d8	38720	0	40000	0	96.8	85-110	38540	0.466	30		

The following samples were analyzed in this batch: | 14071088-17B |



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Page 1 of 5

COC ID: 108075

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Customer Information		Project Information		ALS Project Manager: _____ ALS Work Order #: 14071088												
Parameter/Method Request for Analysis																
Purchase Order		Project Name	Williams	A	GRO C8-C10											
Work Order		Project Number		B	BTEX by EPA 8260											
Company Name	CB&I Government Solutions, Inc.	Bill To Company	CB&I Government Solutions, Inc.	C	DRO C10-C28											
Send Report To	Mark Finney	Invoice Attn	Mark Finney	D												
Address	11208 Thompson Ave	Address	11208 Thompson Ave	E												
City/State/Zip	Lenexa, KS 66219	City/State/Zip	Lenexa, KS 66219	F												
Phone	(913) 317-3591	Phone	(913) 317-3591	G												
Fax		Fax		H												
e-Mail Address		e-Mail Address		I												
				J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1A	GP-1	07/17/14	11:45	GW	NONE	3xVOA			X								
2A	GP-1	07/17/14	11:45	GW	HCL	3xVOA	X	X									
3A	GP-16	07/17/14	12:40	GW	NONE	3xVOA			X								
4A	GP-16	07/17/14	12:40	GW	HCL	3xVOA	X	X									
5A	GP-15	07/17/14	13:45	GW	NONE	3xVOA			X								
6A	GP-15	07/17/14	13:45	GW	HCL	3xVOA	X	X									
7A	GP-14	07/17/14	14:55	GW	NONE	3xVOA			X								
8A	GP-14	07/17/14	14:35	GW	HCL	3xVOA	X	X									
9A	GP-10	07/17/14	15:20	GW	NONE	3xVOA			X								
10A	GP-10	07/17/14	15:20	GW	HCL	3xVOA	X	X									

Sampler(s) Please Print & Sign JAMES GLOVER		Shipment Method		Required Turnaround Time (Check Box) <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/> 120 Hours				Results Due Date			
Relinquished by: J GLOVER	Date: 07/21/14	Time: 10:00	Received by:	Notes: FedEx drop off							
Relinquished by:	Date: 7/22/14	Time: 09:30	Received by (Laboratory):	Cooler ID	Cooler Temp	QC Package (Check One Box Below)					
Logged by (Laboratory): BB	Date: 7/22/14	Time: 09:39	Checked by (Laboratory):		4.2°C	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Check List				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₈ 6-NaHSO ₃ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level II				
						<input type="checkbox"/> Level IV SW846/CLP					
						<input type="checkbox"/> Other					

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse. The Chain of Custody is a legal document. All information must be completed accurately.



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Page 2 of 5

COC ID: 108074

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Customer Information		Project Information		ALS Project Manager: _____ ALS Work Order #: <u>14071085</u>												
Parameter/Method Request for Analysis																
Purchase Order		Project Name	Williams	A	GRO C6-C10											
Work Order		Project Number		B	BTEX by EPA 8260											
Company Name	CB&I Government Solutions, Inc.	Bill-To Company	CB&I Government Solutions, Inc.	C	DRO C10-C28											
Send Report To	Mark Finney	Invoice Attn	Mark Finney	D												
Address	11206 Thompson Ave.	Address	11206 Thompson Ave.	E												
City/State/Zip	Lenexa, KS 66219	City/State/Zip	Lenexa, KS 66219	F												
Phone	(913) 317-3591	Phone	(913) 317-3591	G												
Fax		Fax		H												
e-Mail Address		e-Mail Address		I												
				J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
16A	GP-12	07/17/14	16:25	GW	NONE	3xVOA			X								
16B	GP-12	07/17/14	16:25	GW	HCL	3xVOA	X	X									
17A	GP-6	07/17/14	17:00	GW	NONE	3xVOA			X								
17B	GP-6	07/17/14	17:00	GW	HCL	3xVOA	X	X									
18A	HP-4	07/17/14	17:30	GW	NONE	3xVOA			X								
18B	HP-4	07/17/14	17:30	GW	HCL	3xVOA	X	X									
19A	GP-13	07/17/14	18:00	GW	NONE	3xVOA			X								
19B	GP-13	07/17/14	18:00	GW	HCL	3xVOA	X	X									
20A	GP-5	07/18/14	09:20	GW	NONE	3xVOA			X								
20B	GP-5	07/18/14	09:20	GW	HCL	3xVOA	X	X									

Sampler(s) Please Print & Sign JAMES GLOVER		Shipment Method		Required Turnaround Time (Check Box)				Results Due Date:			
Quished by: J. Glover		Date: 07/21/14	Time: 10:00	Received by:		Notes: FedEx Drop off					
Requisitioned by:		Date: 7/22/14	Time: 09:30	Received by (Laboratory):		Cooler ID:	Cooler Temp: 4.2°C	QC Package: (Check One Box Below)			
Logged by (Laboratory): BSB		Date: 7/22/14	Time: 14:39	Checked by (Laboratory):		<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Check List <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SWB48/CLP <input type="checkbox"/> Other					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₈ 6-NaHSO ₃ 7-Other 8-4°C 9-8035											



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COC ID: 108073

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South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	Williams	A	GRO C8-C10											
Work Order		Project Number		B	BTEX by EPA 8260											
Company Name	CB&I Government Solutions, Inc.	Bill to Company	CB&I Government Solutions, Inc.	C	DRO C10-C28											
Send Report To	Mark Finney	Invoice Attn	Mark Finney	D												
Address	11208 Thompson Ave.	Address	11208 Thompson Ave.	E												
City/State/Zip	Lenexa, KS 66219	City/State/Zip	Lenexa, KS 66219	F												
Phone	(913) 317-3591	Phone	(913) 317-3591	G												
Fax		Fax		H												
e-Mail Address		e-Mail Address		I												
				J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
11A	GP-3 (13-16)	07/18/14	10:00	GW	NONE	3 x VOA			X								
11B	GP-3 (13-16)	07/18/14	10:00	GW	HCL	3 x VOA	X	X									
10A	GP-3 (6-9)	07/18/14	10:35	GW	NONE	3 x VOA			X								
10B	GP-3 (6-9)	07/18/14	10:35	GW	HCL	3 x VOA	X	X									
13A	GP-4 (13-16)	07/18/14	11:05	GW	NONE	3 x VOA			X								
13B	GP-4 (13-16)	07/18/14	11:05	GW	HCL	3 x VOA	X	X									
14A	GP-4 (6-9)	07/18/14	11:40	GW	NONE	3 x VOA			X								
14B	GP-4 (6-9)	07/18/14	11:40	GW	HCL	3 x VOA	X	X									
9A	GP-9 (6-9)	07/18/14	12:05	GW	NONE	3 x VOA			X								
10B	GP-9 (6-9)	07/18/14	12:05	GW	HCL	3 x VOA	X	X									

Sampler(s) Please Print & Sign JAMES GLOVER		Shipment Method *		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 4 Days				Results Due Date:					
Relinquished by: J. Glover	Date: 07/21/14	Time: 10:00	Received by:		Notes: Fed Ex Drop off								
Relinquished by:	Date: 7/22/14	Time: 0930	Received by (Laboratory):		Cooler ID:	Cooler Temp: 4.2°C	QC Package: (Check One Box Below)						
Logged by (Laboratory): BT	Date: 7/22/14	Time: 1439	Checked by (Laboratory):		<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV BWA/CLP <input type="checkbox"/> Other								
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ SO ₄ 6-NaHSO ₄ 7-Other 8-4°C 9-5085													

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Fort Collins, CO
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Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 4 of 5

COC ID: 108072

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

Customer Information		Project Information		ALS Project Manager		ALS Work Order #	
Purchase Order		Project Name	Williams	A	GRO C6-C10	14071068	
Work Order		Project Number		B	BTEX by EPA 8260		
Company Name	CB&I Government Solutions, Inc.	Bill To Company	CB&I Government Solutions, Inc.	C	DRO C10-C28		
Send Report To	Mark Finney	Invoice Attn	Mark Finney	D			
Address	11206 Thompson Ave.	Address	11206 Thompson Ave.	E			
City/State/Zip	Lenexa, KS 66219	City/State/Zip	Lenexa, KS 66219	F			
Phone	(913) 317-3591	Phone	(913) 317-3591	G			
Fax		Fax		H			
e-Mail Address		e-Mail Address		I			
				J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1A	GP-7	07/18/14	12:40	GW	NONE	3xUOA			X								
1B	GP-7	07/18/14	12:40	GW	HCL	3xVDA	X	X									
2A	GP-8	07/18/14	13:30	GW	NONE	3xUOA			X								
2B	GP-8	07/18/14	13:30	GW	HCL	3xVOA	X	X									
3A	GP-11	07/18/14	14:55	GW	NONE	3xUOA			X								
3B	GP-11	07/18/14	15:30	GW	HCL	3xVOA	X	X									
4A	GP-2 (6-9)	07/18/14	14:15	GW	NONE	3xVOA			X								
4B	GP-2 (6-9)	07/18/14	14:15	GW	HCL	3xVOA	X	X									
5A	GP-2 (13-16)	07/18/14	14:55	GW	NONE	3xUOA			X								
5B	GP-2 (13-16)	07/18/14	14:55	GW	HCL	3xVOA	X	X									

Sampler(s) Please Print & Sign JAMES GLOVER		Shipment Method		Required Turnaround Time: (Check Box) <input type="checkbox"/> 24 Hrs <input type="checkbox"/> 48 Hrs <input type="checkbox"/> 72 Hrs <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Weeks <input type="checkbox"/> 4 Weeks				Results Due Date	
Relinquished by: J Glover	Date: 07/21/14	Time: 10:00	Received by:		Notes: Fed Ex Drop off				
Relinquished by:	Date: 7/21/14	Time: 0930	Received by (Laboratory):		Cooler ID	Cooler Temp: 4.2°C	AC Package: (Check One Box Below)		
Logged by (Laboratory): BB	Date: 7/22/14	Time: 1439	Checked by (Laboratory):		<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Check List <input type="checkbox"/> Level III Std QC/Row Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW648/CLP <input type="checkbox"/> Other				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₈ 6-NaHSO ₃ 7-Other 8-4°C 9-5085									



Environmental

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Chain of Custody Form

Page 5 of 5

COC ID: 108071

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

Customer Information		Project Information					Parameter/Method Request for Analysis										
Purchase Order		Project Name	Williams			A	GRO C6-C10										
Work Order		Project Number				B	BTEX by EPA 8260										
Company Name	GB&I Government Solutions, Inc.	Bill To Company	GB&I Government Solutions, Inc.			C	DRO C10-C28										
Send Report To	Mark Finney	Invoice Attn	Mark Finney			D											
Address	11208 Thompson Ave.	Address	11208 Thompson Ave.			E											
City/State/Zip	Lenexa, KS 66219	City/State/Zip	Lenexa, KS 66219			F											
Phone	(813) 317-3591	Phone	(813) 317-3591			G											
Fax		Fax				H											
e-Mail Address		e-Mail Address				I											
						J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
21A	FD	07/18/14	—	GW	None	3xVDA			X								
21B	FD	07/18/14	—	GW	HCl	3xVDA	X	X									
3	TRIP BLANK	07/21/14	—	—	—	—	X	X	X								
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign JAMES GLOVER		Shipment Method		Required Turnaround Time: (Check Box)			Results Due Date	
Relinquished by: J. Glover	Date: 07/21/14	Time: 10:00	Received by:	Notes: Fed Ex Drop off				
Relinquished by:	Date: 7/22/14	Time: 0930	Received by (Laboratory):	Cooler ID	Cooler Temp: 4.2°C	CO Packages (Check One Box Below)		
Logged by (Laboratory): BB	Date: 7/22/14	Time: 1439	Checked by (Laboratory):	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₈ 6-NaHSO ₃ 7-Other 8-4°C 9-5035				<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV			
				<input type="checkbox"/> Level IV BWA/CLP				
				<input type="checkbox"/> Other				

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **CB&I - LENEXA**

Date/Time Received: **22-Jul-14 09:30**

Work Order: **14071088**

Received by: **BAB**

Checklist completed by *Daylan Basworth* 22-Jul-14
eSignature Date

Reviewed by: *Ann Preston* 23-Jul-14
eSignature Date

Matrices: **Groundwater**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	4.2°C <input type="text"/> C <input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	7/22/2014 2:39:55 PM <input type="text"/>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

APR 06 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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Williams Four Corners LLC	Contact Kelsey Christiansen
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4606
Facility Name D2 Lateral	Facility Type Pipeline

Surface Owner Jicarilla Apache Nation	Mineral Owner	API No.
---------------------------------------	---------------	---------

LOCATION OF RELEASE

Unit Letter H	Section 12	Township 26N	Range 3W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
------------------	---------------	-----------------	-------------	---------------	------------------	---------------	----------------	----------------------

Latitude 36.50451° N Longitude -107.30341° W

NATURE OF RELEASE

Type of Release Natural Gas Release from pipeline	Volume of Release 917 MCF	Volume Recovered 0 MCF
Source of Release Pinhole	Date and Hour of Occurrence 03/31/2015, 10:00 AM	Date and Hour of Discovery 03/31/2015, 10:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Johnathan Kelly, NMOCD Bryce Hammond, Jicarilla Oil and Gas Hobson Sandoval, Jicarilla Apache Tribe	
By Whom? Kelsey Christiansen	Date and Hour 04/01/2015 @ 2:15 PM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable

Describe Cause of Problem and Remedial Action Taken.*

While performing routine duties Williams Op Tech discovered an odor coming from a pinhole leak on the D2 Lateral pipeline. The pipeline was immediately shut in and actions were taken to repair the pipeline.

Describe Area Affected and Cleanup Action Taken.*

While repairing the pipeline impacted soil was discovered. Remediation measures are currently taking place in direct coordination with the Jicarilla Apache Tribe.

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

Signature: 	OIL CONSERVATION DIVISION	
	Approved by Environmental Specialist: 	
Printed Name: Kelsey Christiansen	Approval Date: 4/7/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 04/01/2015	Phone: 505-632-4606	

* Attach Additional Sheets If Necessary

#NCS 15097 32278

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

OIL CONS. DIV DIST. 3

Form C-141
Revised August 8, 2011
APR 06 2015
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

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 Tribal C-11	Facility Type Pipeline
Surface Owner Jicarilla Apache Nation	Mineral Owner
API No.	

LOCATION OF RELEASE

Unit Letter O	Section 5	Township 26N	Range 3W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
------------------	--------------	-----------------	-------------	---------------	------------------	---------------	----------------	----------------------

Latitude 36.50892° N Longitude -107.16470° W

NATURE OF RELEASE

Type of Release Condensate	Volume of Release: Estimated at 5 BBL	Volume Recovered 0 BBL
Source of Release Valve	Date and Hour of Occurrence 03/19/2015, 01:40 PM	Date and Hour of Discovery 03/19/2015, 01:40 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.* While performing routine duties Williams Op Tech discovered a valve actively leaking on the Tribal C-11A pipeline. The leak was immediately stopped and the valve was closed. Actions are currently being taken for remediation of the impacted soil.		
Describe Area Affected and Cleanup Action Taken.* Approximately 76 cubic feet of impacted soil has been removed. In coordination with the Jicarilla Apache Tribe confirmation soil samples were collected and sent to Hall Environmental Analysis Laboratory for analysis. Williams is currently awaiting the results of the soil analysis and will submit a final Form C-141 with laboratory results attached when available.		

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

Signature: 	OIL CONSERVATION DIVISION	
	Approved by Environmental Specialist:	
Printed Name: Kelsey Christiansen	Approval Date: 4/7/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 03/31/2015	Phone: 505-632-4606	

#NCS 1509732098

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
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 29-7	Facility Type Compressor Station

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

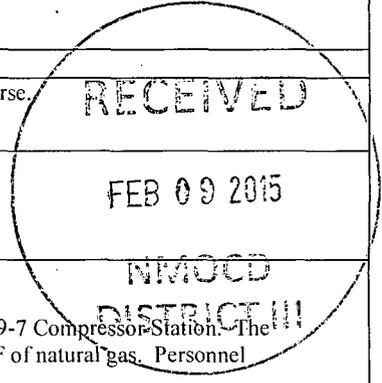
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	15	29N	7W					Rio Arriba

Latitude 36.724454°N Longitude 107.553321°W

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 642 MCF	Volume Recovered 0 MCF
Source of Release Automatic and Manual Valve	Date and Hour of Occurrence 01/28/15, 07:30 AM	Date and Hour of Discovery 01/28/15, 07:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, NMOCD	
By Whom? Kelsey Christiansen	Date and Hour 01/28/15 at 4:30 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	



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

Describe Cause of Problem and Remedial Action Taken.*
Williams had a release of approximately 642 MCF of natural gas from both an automatic and a manual valve at the 29-7 Compressor Station. The automatic valve release approximately 378 MCF of natural gas and the manual valve release approximately 274 MCF of natural gas. Personnel immediately secured both valves to prevent further gas loss. Necessary repairs were made to both the valves.

Describe Area Affected and Cleanup Action Taken.*
No cleanup required for this 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: <i>Kelsey Christiansen</i>	OIL CONSERVATION DIVISION	
	Approved by Environmental Specialist: <i>[Signature]</i>	
Printed Name: Kelsey Christiansen	Approval Date: 4/13/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 02/02/15 Phone: 505-632-4606		

* Attach Additional Sheets If Necessary

#NCS 15103 417622

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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 30-5 CDP	Facility Type Compressor Station

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

LOCATION OF RELEASE

Unit Letter L	Section 18	Township 30N	Range 5W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
------------------	---------------	-----------------	-------------	---------------	------------------	---------------	----------------	----------------------

Latitude N36.81163° Longitude W107.40396°

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 186.4 MCF	Volume Recovered 0 MCF
Source of Release Dump Valve	Date and Hour of Occurrence 02/04/15, 11:30 PM	Date and Hour of Discovery 02/04/15, 11:30 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

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

Describe Cause of Problem and Remedial Action Taken.*
Williams personnel discovered the dump valve associated with the pipe rack had malfunctioned and failed to close. Approximately 186 MCF of natural gas was released. Repairs were immediately made to the valve to prevent a future release.

Describe Area Affected and Cleanup Action Taken.*
No cleanup required with 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: <i>Kelsey Christiansen</i>	OIL CONSERVATION DIVISION	
	Approved by Environmental Specialist: <i>[Signature]</i>	
Printed Name: Kelsey Christiansen	Approval Date: 4/12/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	Attached <input type="checkbox"/>
E-mail Address: kelsey.christiansen@williams.com		
Date: 02/10/15 Phone: 505-632-4606		

* Attach Additional Sheets If Necessary

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
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 Ojito Compressor Station	Facility Type Compressor Station
Surface Owner Jicarilla Apache Nation	Mineral Owner
API No.	

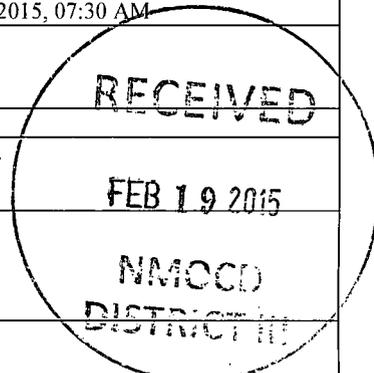
LOCATION OF RELEASE

Unit Letter D	Section 7	Township 26N	Range 3W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude 36.50697° N Longitude -107.19263° W

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release 4,373 MCF	Volume Recovered 0 MCF
Source of Release PSRV	Date and Hour of Occurrence 02/07/2015, 07:30 AM	Date and Hour of Discovery 02/07/2015, 07:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, NMOCD Bryce Hammond, Jicarilla Oil and Gas	
By Whom? Kelsey Christiansen	Date and Hour 02/09/15 3:15 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	



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

Describe Cause of Problem and Remedial Action Taken.*
Williams had a release of approximately 4,373 MCF of natural gas at Ojito Compressor Station from a pressure relief valve (PSRV). The release was due to the cold weather conditions causing the PSRV to fail. The line was immediately isolated to prevent further gas loss. Williams personnel are in the process of preventing a recurrence.

Describe Area Affected and Cleanup Action Taken.*
No cleanup required with 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: <i>Kelsey Christiansen</i>	OIL CONSERVATION DIVISION	
	Approved by Environmental Specialist: <i>[Signature]</i>	
Printed Name: Kelsey Christiansen	Approval Date: 4/13/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 02/16/2015	Phone: 505-632-4606	

* Attach Additional Sheets If Necessary

#NCS 1510351203

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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: 29-6#2 Central Delivery Point	Facility Type: Central Delivery Point

Surface Owner: Private	Mineral Owner	API No.
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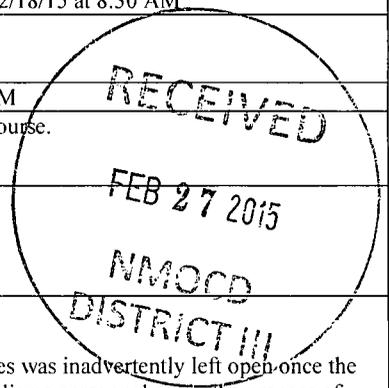
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	19	29N	6W					Rio Arriba

Latitude 36.74497° N Longitude -107.44417° W

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 1,377 MCF	Volume Recovered: 0 MCF
Source of Release: Pressure Safety Valve (PSV)	Date and Hour of Occurrence: 02/18/15 at 8:30 AM	Date and Hour of Discovery: 02/18/15 at 8:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, NMOCD	
By Whom? Kelsey Christiansen	Date and Hour: 02/18/2015 at 10:30 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	



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

Describe Cause of Problem and Remedial Action Taken.*
On February 17, 2015 compression maintenance was conducted on a unit. During the maintenance one of the valves was inadvertently left open once the maintenance was complete and the unit was restarted. Approximately 1,377 MCF of natural gas was released. Williams personnel are in the process of preventing a reoccurrence.

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

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

Signature: <i>Kelsey Christiansen</i>	<u>OIL CONSERVATION DIVISION</u>	
	Approved by Environmental Specialist: <i>Cory Smith</i>	
Printed Name: Kelsey Christiansen	Approval Date: 4/13/15	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kelsey.christiansen@williams.com	Attached <input type="checkbox"/>	
Date: 01/06/2015 Phone: (505) 632-4606		

* Attach Additional Sheets If Necessary

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