



AE Order Number Banner

Report Description

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



App Number: pENV000GW00034

GW - 33

WESTERN GAS PROCESSING

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

OIL CONS. DIV DIST. 3

AUG 23 2016 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 - CCI San Juan LLC	Contact - Josh Tuttle	
Address - 811 Main Street, Suite 3500, Houston, TX 77002	Telephone No. - (435) 686 - 7610	
Facility Name - San Juan River Gas Plant	Facility Type - Natural Gas Plant	
Surface Owner - Navajo Nation	Mineral Owner	API No. - None

LOCATION OF RELEASE

Unit Letter	Section 16	Township 31N	Range 17W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude - N36.89398° Longitude - W-108.63926°

NATURE OF RELEASE

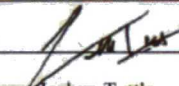
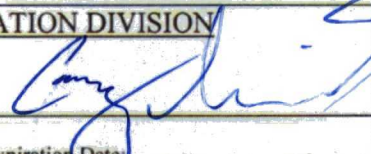
Type of Release - Gathering Pipeline	Volume of Release - None (Iron Sulfide Powder)	Volume Recovered - None
Source of Release - Hole in pipeline	Date and Hour of Occurrence - 7/2/15 at 11:00 am	Date and Hour of Discovery - 7/6/15 at 6:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith	
By Whom? Josh Tuttle	Date and Hour - 7/7/15 at 4:00 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.*
None

Describe Cause of Problem and Remedial Action Taken.* Following discovery of the leak a crew was dispatched to promptly initiate remedial action. The line was depressured and a crew began excavation activity to remove contaminated soil which appeared to have iron sulfide powder from the pipe. Pipeline clamps were placed on the section requiring repair to prevent additional leaks and future environmental damage. All soil containing the pipe discharge has been horizontally and vertically excavated for remediation and disposal. Composite sampling has been completed on the excavated soil and spot sampling has also been completed on the excavated area to determine cleanup levels.

Describe Area Affected and Cleanup Action Taken.* The Salt Creek Wash area was exposed to some contaminated soil that has been promptly excavated for remediation and disposal. All soil containing the pipe discharge has been horizontally and vertically excavated. Composite sampling has been completed on the excavated soil and spot sampling has also been completed on the excavated area to determine cleanup levels. The affected site has been sampled (attached) to ensure cleanup levels in accordance with NMOCD requested requirements of which there were non-detected contaminants. A pipe clamp has been installed on the affected pipe. The excavated hole has been backfilled according to best management practices and wattles for erosion with berms are in place.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Joshua Tuttle	Approved by Environmental Specialist: 	
Title: ES&H Specialist II	Approval Date: 9/24/16	Expiration Date:
E-mail Address: joshua.tuttle@cci.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/11/2015	Phone: (435) 686 - 7610	

* Attach Additional Sheets If Necessary

#105 1521552026

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Analytical Report

Report Summary

Client: CCI, San Juan LLC
Chain Of Custody Number:
Samples Received: 7/14/2015 3:39:00PM
Job Number: 14038-0015
Work Order: P507025
Project Name/Location: Horseshoe Gallup West
Pipeline Leak

Entire Report Reviewed By:

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

Date: 7/16/15

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 7/15/15 2:08 pm

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



CCI, San Juan LLC
PO Box 70
Kirtland NM, 87417

Project Name: Horseshoe Gallup West Pipeline Leak
Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
16-Jul-15 11:58

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S. Wall	P507025-01A	Soil	07/14/15	07/14/15	Glass Jar, 4 oz.
E. Wall	P507025-02A	Soil	07/14/15	07/14/15	Glass Jar, 4 oz.
W. Wall	P507025-03A	Soil	07/14/15	07/14/15	Glass Jar, 4 oz.
N. Wall	P507025-04A	Soil	07/14/15	07/14/15	Glass Jar, 4 oz.
Soil Pile	P507025-05A	Soil	07/14/15	07/14/15	Glass Jar, 4 oz.

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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Project Name: Horseshoe Gallup West Pipeline Leak
Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
16-Jul-15 11:58

S. Wall
P507025-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		86.6 %		50-150		1529012	07/14/15	07/14/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.91	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1		1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: o-Terphenyl		125 %		50-200		1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		81.3 %		50-150		1529012	07/14/15	07/14/15	EPA 8015D	
Water Chemistry										
Sulfide	ND	1.00	mg/L	1		1529016	07/15/15	07/15/15	Hach Method 8131	

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Project Name: Horseshoe Gallup West Pipeline Leak
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Project Manager: Greg Crabtree

Reported:
16-Jul-15 11:58

E. Wall
P507025-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		89.3 %		50-150	1529012	07/14/15	07/14/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.85	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: o-Terphenyl		126 %		50-200	1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		83.7 %		50-150	1529012	07/14/15	07/14/15	EPA 8015D	

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Project Name: Horseshoe Gallup West Pipeline Leak
Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
16-Jul-15 11:58

W. Wall
P507025-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		89.4 %		50-150	1529012	07/14/15	07/14/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.86	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: o-Terphenyl		118 %		50-200	1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		84.7 %		50-150	1529012	07/14/15	07/14/15	EPA 8015D	

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Reported:
16-Jul-15 11:58

N. Wall
P507025-04 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		89.1 %		50-150	1529012	07/14/15	07/14/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.92	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: o-Terphenyl		119 %		50-200	1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		84.3 %		50-150	1529012	07/14/15	07/14/15	EPA 8015D	

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Reported:
16-Jul-15 11:58

Soil Pile
P507025-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %		50-150		1529012	07/14/15	07/14/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.88	mg/kg	1		1529012	07/14/15	07/14/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: o-Terphenyl		115 %		50-200		1529013	07/15/15	07/15/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		85.2 %		50-150		1529012	07/14/15	07/14/15	EPA 8015D	

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Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
16-Jul-15 11:58

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1529012 - Purge and Trap EPA 5030A

Blank (1529012-BLK1)

Prepared & Analyzed: 14-Jul-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.289		"	0.320		90.3	50-150			

LCS (1529012-BS1)

Prepared & Analyzed: 14-Jul-15

Benzene	20.5	0.10	mg/kg	20.0		102	75-125			
Toluene	21.2	0.10	"	20.0		106	70-125			
Ethylbenzene	21.3	0.10	"	20.0		107	75-125			
p,m-Xylene	42.5	0.20	"	40.0		106	80-125			
o-Xylene	20.7	0.10	"	20.0		104	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.290		"	0.320		90.6	50-150			

Matrix Spike (1529012-MS1)

Source: P507021-01

Prepared & Analyzed: 14-Jul-15

Benzene	20.8	0.10	mg/kg	20.0	ND	104	75-125			
Toluene	21.6	0.10	"	20.0	ND	108	70-125			
Ethylbenzene	21.8	0.10	"	20.0	ND	109	75-125			
p,m-Xylene	43.4	0.20	"	40.0	ND	108	80-125			
o-Xylene	21.1	0.10	"	20.0	ND	106	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.291		"	0.320		90.8	50-150			

Matrix Spike Dup (1529012-MSD1)

Source: P507021-01

Prepared & Analyzed: 14-Jul-15

Benzene	16.1	0.10	mg/kg	20.0	ND	80.5	75-125	25.7	15	D1
Toluene	16.5	0.10	"	20.0	ND	82.7	70-125	26.5	15	D1
Ethylbenzene	16.6	0.10	"	20.0	ND	82.9	75-125	27.0	15	D1
p,m-Xylene	33.2	0.20	"	40.0	ND	83.0	80-125	26.6	15	D1
o-Xylene	16.4	0.10	"	20.0	ND	82.1	75-125	25.2	15	D1
Surrogate: 4-Bromochlorobenzene-PID	0.289		"	0.320		90.4	50-150			

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Project Name: Horseshoe Gallup West Pipeline Leak
Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
16-Jul-15 11:58

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1529012 - Purge and Trap EPA 5030A										
Blank (1529012-BLK1)				Prepared & Analyzed: 14-Jul-15						
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		84.9	50-150			
LCS (1529012-BS1)				Prepared & Analyzed: 14-Jul-15						
Gasoline Range Organics (C6-C10)	385	10.0	mg/kg	368		105	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		85.0	50-150			
Matrix Spike (1529012-MS1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Gasoline Range Organics (C6-C10)	393	10.0	mg/kg	368	ND	107	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		85.1	50-150			
Matrix Spike Dup (1529012-MSD1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Gasoline Range Organics (C6-C10)	304	10.0	mg/kg	368	ND	82.6	75-125	25.6	15	D1
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.320		85.4	50-150			

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Reported:
16-Jul-15 11:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1529013 - DRO Extraction EPA 3550M										
Blank (1529013-BLK1)				Prepared & Analyzed: 14-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	47.7		"	40.0		119	50-200			
LCS (1529013-BS1)				Prepared & Analyzed: 14-Jul-15						
Diesel Range Organics (C10-C28)	542	25.0	mg/kg	500		108	38-132			
Surrogate: o-Terphenyl	49.9		"	40.0		125	50-200			
Matrix Spike (1529013-MS1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Diesel Range Organics (C10-C28)	545	35.0	mg/kg	500	ND	109	38-132			
Surrogate: o-Terphenyl	46.5		"	40.0		116	50-200			
Matrix Spike Dup (1529013-MSD1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Diesel Range Organics (C10-C28)	533	35.0	mg/kg	500	ND	107	38-132	2.25	20	
Surrogate: o-Terphenyl	48.0		"	40.0		120	50-200			

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CCI, San Juan LLC
PO Box 70
Kirtland NM, 87417

Project Name: Horseshoe Gallup West Pipeline Leak
Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
16-Jul-15 11:58

Notes and Definitions

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference is outside of control limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Client: CCI
 Project: Horseshoe Gallup West pipeline leak
 Sampler: T. Garcia
 Phone: _____
 Email(s): T. Garcia
 Project Manager: Greg Crabtree

RUSH?

☒ 1d
☐ 3d

Lab Use Only		Analysis and Method										Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Sulfide						Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number													
P507025													
14038-0015													

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Sulfide										
S. Wall	7/14/15	11:21	S	1-4oz/G / cool	X	X			X									1	✓
E. Wall		11:27			X	X												2	✓
W. Wall		11:34			X	X												3	✓
N. Wall		11:42			X	X												4	✓
Soil pile					X	X												5	✓

Relinquished by: (Signature) 	Date 7/14/15	Time 15:39	Received by: (Signature) 	Date 7/14/15	Time 1539	Lab Use Only							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice Y / N T1 <u>14.9</u> T2 <u>16.6</u> T3 <u>16.8</u> AVG Temp °C _____							

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing Info:



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Analytical Report

Report Summary

Client: CCI, San Juan LLC

Chain Of Custody Number:

Samples Received: 7/27/2015 2:52:00PM

Job Number: 14038-0015

Work Order: P507075

Project Name/Location: Horseshoe Gallup West
Pipeline Leak

Entire Report Reviewed By:

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

Date: 7/29/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



CCI, San Juan LLC
PO Box 70
Kirtland NM, 87417

Project Name: Horseshoe Gallup West Pipeline Leak
Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
29-Jul-15 08:50

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom Comp	P507075-01A	Soil	07/27/15	07/27/15	Glass Jar, 4 oz.

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Project Name: Horseshoe Gallup West Pipeline Leak
Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
29-Jul-15 08:50

Bottom Comp
P507075-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1531006	07/28/15	07/28/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1531006	07/28/15	07/28/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1531006	07/28/15	07/28/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1531006	07/28/15	07/28/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1531006	07/28/15	07/28/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1531006	07/28/15	07/28/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1531006	07/28/15	07/28/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1531006	07/28/15	07/28/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1531006	07/28/15	07/28/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	45.0	mg/kg	2	1531005	07/28/15	07/28/15	EPA 8015D	
Surrogate: o-Terphenyl		107 %		50-200	1531005	07/28/15	07/28/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		98.2 %		50-150	1531006	07/28/15	07/28/15	EPA 8015D	
Water Chemistry									
Sulfide	ND	1.00	mg/L	1	1531010	07/28/15	07/28/15	Hach Method 8131	

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Project Name: Horseshoe Gallup West Pipeline Leak
Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
29-Jul-15 08:50

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1531006 - Purge and Trap EPA 5030A										
Blank (1531006-BLK1)				Prepared: 27-Jul-15 Analyzed: 28-Jul-15						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.320		"	0.320		100	50-150			
LCS (1531006-BS1)				Prepared: 27-Jul-15 Analyzed: 28-Jul-15						
Benzene	21.7	0.10	mg/kg	20.0		108	75-125			
Toluene	21.7	0.10	"	20.0		109	70-125			
Ethylbenzene	22.0	0.10	"	20.0		110	75-125			
p,m-Xylene	44.2	0.20	"	40.0		110	80-125			
o-Xylene	21.6	0.10	"	20.0		108	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.321		"	0.320		100	50-150			
Matrix Spike (1531006-MS1)				Source: P507073-01	Prepared: 27-Jul-15 Analyzed: 28-Jul-15					
Benzene	21.6	0.10	mg/kg	20.0	ND	108	75-125			
Toluene	21.7	0.10	"	20.0	ND	109	70-125			
Ethylbenzene	22.1	0.10	"	20.0	ND	111	75-125			
p,m-Xylene	44.2	0.20	"	39.9	ND	111	80-125			
o-Xylene	21.7	0.10	"	20.0	ND	108	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.321		"	0.320		101	50-150			
Matrix Spike Dup (1531006-MSD1)				Source: P507073-01	Prepared: 27-Jul-15 Analyzed: 28-Jul-15					
Benzene	21.3	0.10	mg/kg	20.0	ND	107	75-125	1.51	15	
Toluene	21.4	0.10	"	20.0	ND	107	70-125	1.59	15	
Ethylbenzene	21.7	0.10	"	20.0	ND	109	75-125	1.59	15	
p,m-Xylene	43.5	0.20	"	40.0	ND	109	80-125	1.59	15	
o-Xylene	21.3	0.10	"	20.0	ND	107	75-125	1.61	15	
Surrogate: 4-Bromochlorobenzene-PID	0.323		"	0.320		101	50-150			

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Project Name: Horseshoe Gallup West Pipeline Leak
Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
29-Jul-15 08:50

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1531005 - DRO Extraction EPA 3550M										
Blank (1531005-BLK1)				Prepared: 27-Jul-15 Analyzed: 28-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	42.7		"	40.0		107	50-200			
LCS (1531005-BS1)				Prepared: 27-Jul-15 Analyzed: 28-Jul-15						
Diesel Range Organics (C10-C28)	528	25.0	mg/kg	500		106	38-132			
Surrogate: o-Terphenyl	43.3		"	40.0		108	50-200			
Matrix Spike (1531005-MS1)				Source: P507073-01		Prepared: 27-Jul-15 Analyzed: 28-Jul-15				
Diesel Range Organics (C10-C28)	397	25.0	mg/kg	500	ND	79.4	38-132			
Surrogate: o-Terphenyl	31.6		"	40.0		79.0	50-200			
Matrix Spike Dup (1531005-MSD1)				Source: P507073-01		Prepared: 27-Jul-15 Analyzed: 28-Jul-15				
Diesel Range Organics (C10-C28)	396	25.0	mg/kg	500	ND	79.2	38-132	0.184	20	
Surrogate: o-Terphenyl	32.0		"	40.0		79.9	50-200			

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Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
29-Jul-15 08:50

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1531006 - Purge and Trap EPA 5030A									
Blank (1531006-BLK1)				Prepared: 27-Jul-15 Analyzed: 28-Jul-15					
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg						
Surrogate: 4-Bromochlorobenzene-FID	0.312		"	0.320		97.4	50-150		
LCS (1531006-BS1)				Prepared: 27-Jul-15 Analyzed: 28-Jul-15					
Gasoline Range Organics (C6-C10)	471	20.0	mg/kg	449		105	80-120		
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.7	50-150		
Matrix Spike (1531006-MS1)				Source: P507073-01		Prepared: 27-Jul-15 Analyzed: 28-Jul-15			
Gasoline Range Organics (C6-C10)	472	20.0	mg/kg	449	ND	105	75-125		
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.9	50-150		
Matrix Spike Dup (1531006-MSD1)				Source: P507073-01		Prepared: 27-Jul-15 Analyzed: 28-Jul-15			
Gasoline Range Organics (C6-C10)	464	20.0	mg/kg	449	ND	103	75-125	1.74	15
Surrogate: 4-Bromochlorobenzene-FID	0.314		"	0.320		98.1	50-150		

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Project Number: 14038-0015
Project Manager: Greg Crabtree

Reported:
29-Jul-15 08:50

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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