

# **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

OIL CONS. DIV DIST. 3

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 AUG 2 3 2016 Revised August 8, 2011

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

						OPERA'	TOR		☐ Initia	al Report	X	Final Repo		
Name of Co	ompany – (	CCI San Juan	n LLC			Contact - Jo				- Ittpoil		- mai repe		
				uston, TX 77002		Telephone No. – (435) 686 – 7610								
		uan River G					e - Natural Ga			-		N		
				1.0										
Surface Ow	ner – Nava	ajo Nation	(40	Mineral C	wner	er API No. – None								
				LOCA	TIO	OF RE	LEASE							
Unit Letter	Section 16	Township 31N	Range 17W	Feet from the	North	South Line	Feet from the	East/V	East/West Line County San Juan					
				Latitude – N36		Longitude	_	6°		9				
Type of Rele	ase - Gathe	ring Pipeline		NAI	UKE	-	Release - None	(Iron	Volume F	Recovered -	None			
Source of Release - Hole in pipeline							Hour of Occurren	ce –	Date and 6:00 PM	Hour of Dis	scovery	- 7/6/15 at		
Was Immedi	ate Notice (		Yes 🗆	No Not Re	equired	If YES, To	Whom? Cory Si	nith						
By Whom? J						Date and I	Hour - 7/7/15 at 4	:00 pm						
Was a Water	course Read		Yes 🗵			If YES, Vo	olume Impacting	the Wate	crcourse.					
None  Describe Ca	use of Prob	pacted, Descri	ibe Fully.	on Taken.* Follo										
Describe Car the line was Pipeline clar discharge ha pot samplin Describe Ar excavated for even comple even sample been sample been sample sipe clamp h with berns a hereby cert egulations a sublic health hould their o	use of Prob depressure nps were pl s been horiz g has also b ea Affected or remediatie ted on the e d (attached) as been inst re in place. If that the i ll operators or the environment	lem and Remaid and a crew aced on the stontally and veen completed and Cleanupon and dispost acavated soil to ensure clealled on the a information giare required to ronment. The ave failed to a	edial Action began exception required and spot sand spot sand plevel effected pip twen above or report an acceptance acce	on Taken.* Follocavation activity to puring repair to perceived area to de Taken.* The Soil containing the ampling has also is in accordance where the excavated is true and computed of a C-141 repositivestigate and research in the containing the	orevent a ediation etermine alt Cree pipe dis- been co with NM hole ha lete to the elease no ort by the emediate	we contamina additional lea and disposal. cleanup leve k Wash area charge has b impleted on t lOCD reques is been backfi the best of my otifications are e NMOCD me contaminati	ted soil which apiks and future en. Composite samples.  was exposed to een horizontally he excavated are ted requirements illed according to knowledge and und perform correcarked as "Final Roon that pose a thr	peared to vironme bling has been considered to determine the second considered to the considered to th	to have iro ntal damag been com contaminate ically exca rmine clear in there wer nagement in that purs ons for rele oes not reli ound water	n sulfide por ge. All soil pleted on the ed soil that twated. Com- nup levels, 're non-detect practices an suant to NM eases which leve the ope r, surface wa	thas be the excavate that he excavate th	rom the pipe, ning the pipe, vated soil and een promptly sampling has ected site has ataminants. A es for erosion ales and idanger liability man health		
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Describe Car The line was Pipeline clar discharge ha spot samplin Describe Ar excavated fo been comple been sample pipe clamp h with berms a I hereby cert regulations a public health should their or the enviro federal, state  Signature: Printed Name Title: ES&H	use of Probited depressure in place. If the end of the	lem and Remark and and a crew aced on the secontally and veen completed and Cleanup on and dispose accavated soil to ensure clearled on the anterior and comment. The ave failed to addition, NMC was and/or regulated.	edial Action began exception requestion requestion requestion requestion and spot sanup level and spot sanup level and spot so and spot so and spot so and spot so report and acceptance adequately DCD acceptance adequately DCD acceptance adequately DCD acceptance and spot spot spot spot spot spot spot spot	on Taken.* Follocavation activity to puring repair to perceived area to de Taken.* The Soil containing the ampling has also is in accordance where the excavated is true and computed of a C-141 repositivestigate and research in the containing the	to remove the second of the se	we contamina additional lea and disposal. cleanup leve k Wash area charge has b impleted on t lOCD reques is been backfi the best of my ortifications are contaminations not relieve	ted soil which apuls and future en. Composite samples.  was exposed to een horizontally he excavated are ted requirements illed according to knowledge and und perform correarked as "Final Roon that pose a three the operator of OIL CON Environmental Ste: 9/29///	peared to vironme oling has o some of and verta to deter of which best ma understantitive actities actities actities actities actities active actities active active active active active pecialist services active	contaminatically excarmine clear in there were magement of that pursons for relicous not relicous not relicous not relicous at the contamination of that pursons for relicous not relicous not relicous not relicous at the contamination of that pursons for relicous not relicous not relicous not relicous at the contamination of the contamination o	n sulfide po ge. All soil pleted on the ed soil that twated. Com- nup levels. re non-detect practices an suant to NM eases which leve the ope r, surface we compliance v	t has be in posite. The affected cord wattle local may ererator of ater, hur with any	rom the pipe ning the pipe vated soil and een promptly sampling has ected site has ataminants. A es for erosion ales and idanger liability man health		

21)



# **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:

11 10

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.



PO Box 70

Kirtland NM, 87417

Project Name:

Horseshoe Gallup West Pipeline Leak

Project Number: Project Manager: 14038-0015

Greg Crabtree

Reported:

16-Jul-15 11:58

# **Analyical 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.



Project Name:

Horseshoe Gallup West Pipeline Leak

PO Box 70

Project Number: Kirtland NM, 87417 Project Manager:

14038-0015

Greg Crabtree

Reported: 16-Jul-15 11:58

# S. Wall

#### P507025-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	4	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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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

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

Ph (970) 259-0615 Fr (800) 362-1879



Project Name:

Horseshoe Gallup West Pipeline Leak

PO Box 70

Project Number:

14038-0015

Reported:

Kirtland NM, 87417

Project Manager:

Greg Crabtree

16-Jul-15 11:58

# E. Wall P507025-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								19	
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						11			
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	



PO Box 70

Project Name:

Project Manager:

Horseshoe Gallup West Pipeline Leak

Project Number: Kirtland NM, 87417

14038-0015

Greg Crabtree

Reported:

16-Jul-15 11:58

W. Wall P507025-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	



PO Box 70

Kirtland NM, 87417

Project Name:

Horseshoe Gallup West Pipeline Leak

Project Number: Project Manager: 14038-0015

Greg Crabtree

Reported:

16-Jul-15 11:58

# N. Wall P507025-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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			16			4		1	
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 %	50-2	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	



Project Name:

Horseshoe Gallup West Pipeline Leak

PO Box 70

Project Number:

14038-0015

Reported:

Kirtland NM, 87417

Project Manager:

Greg Crabtree

16-Jul-15 11:58

# Soil Pile P507025-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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				20 0			41	20	
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	



PO Box 70

Kirtland NM, 87417

Project Name:

Horseshoe Gallup West Pipeline Leak

Source

Project Number:

14038-0015

Reported:

RPD

%REC

Project Manager:

Reporting

Greg Crabtree

Spike

16-Jul-15 11:58

#### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1529012 - Purge and Trap EPA 5030	)A							-		
Blank (1529012-BLK1)				Prepared &	Analyzed:	14-Jul-15				
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	**							
Ethylbenzene	ND	0.10								
o,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)	Sou	rce: P507021-	01	Prepared &	: Analyzed:	14-Jul-15				
Benzene	20.8	0.10	mg/kg	20.0	ND	104	75-125	201000		
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	16	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		9	
Matrix Spike Dup (1529012-MSD1)	Sou	rce: P507021-	01	Prepared &	Analyzed:	14-Jul-15				
Benzene	16.1	0.10	mg/kg	20.0	ND	80.5	75-125	25.7	15	DI
Foluene	16.5	0.10		20.0	ND	82.7	70-125	26.5	15	DI
Ethylbenzene	16.6	0.10		20.0	ND	82.9	75-125	27.0	15	D1
o,m-Xylene	33.2	0.20		40.0	ND	83.0	80-125	26.6	15	D1
-Xylene	16.4	0.10	*	20.0	ND	82.1	75-125	25.2	15	DI
Surrogate: 4-Bromochlorobenzene-PID	0.289			0.320		90.4	50-150			

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Page 8 of 12



PO Box 70

Kirtland NM, 87417

Project Name:

Horseshoe Gallup West Pipeline Leak

Project Number: Project Manager:

Reporting

14038-0015

Spike

Greg Crabtree

Reported:

16-Jul-15 11:58

RPD

%REC

#### Nonhalogenated Organics by 8015 - Quality Control

# **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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-F1D	0.272		*	0.320		85.0	50-150			
Matrix Spike (1529012-MS1)	Sour	rce: P507021-	01	Prepared &	Analyzed	14-Jul-15	2.			
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)	Sour	rce: 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	DI
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.320		85.4	50-150			



Project Name:

Horseshoe Gallup West Pipeline Leak

PO Box 70

Kirtland NM, 87417

Project Number: Project Manager:

Reporting

14038-0015

Greg Crabtree

Spike

Reported: 16-Jul-15 11:58

RPD

%REC

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1529013 - DRO Extraction EPA 3	550M					(				
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	e: 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	e: 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			



Project Name:

Horseshoe Gallup West Pipeline Leak

PO Box 70

Project Number:

14038-0015

Reported: 16-Jul-15 11:58

Kirtland NM, 87417

Project Manager:

Greg Crabtree

#### **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

RPD

dry Sample results reported on a dry weight basis

Relative Percent Difference

ient: CCI				La	b Use Only			Ana	alysis	s and	Met	hod		lab C	Only
Project: Horse skoz Gallup West pipe line 1. Sampler: A. Garu'a Phone:	cak		✓ 1d 3d	P50	1 0 25 b Number	115			07					nber	Correct Cont/Prsrv (s) Y/N
Email(s): T. Garaiq				14038	8-0015	by 80	171	17.	y 300	2				Lab Number	ont/P
Project Manager: Grey Cubfree			Pag		1	8	oy 80	y 418	de b	Fie				Lab	ct Cc
Sample ID	Sample Date	Sample Time	Matrix	,,,,,,	ontainers TYPE/Preservative	GRO/DRO by 8015	BTEX	TPH by 418.1	Chlori	Sulfide					Corre
S. Wall	7/14/15	11:21	5	1-402/	6 /cool	X	X			X				)	V
E. Wall	1	11:27	1		1	Х	X							2	7
W. Wall		11:34				X	X							3	-
N. Wall		11:42				X	X							4	١
Soil Pila	7		T	<	_	×	X							5	-
				٠											
			,												
Relinquished by: (Signature) Date Time  Page 15:39	d		<b>£</b>	7/14/15		Rece			ce Y	/ N		nly			
Relinquished by: (Signature) Date Time	Received	d by: (Signa	ture)	Date	Time T1	14. G Te	g mp°	c	T2_	16.	4		T3_	16.	r
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other					Container Type: g		_	_		stic,	ag - a	mber g	lass, v	-VOA	



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Page 12 of 12



# **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:

1 1

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.



PO Box 70

Kirtland NM, 87417

Project Name:

Horseshoe Gallup West Pipeline Leak

Project Number: Project Manager: 14038-0015 Greg Crabtree

Reported:

29-Jul-15 08:50

# **Analyical 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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المر مهاده



Project Name:

Horseshoe Gallup West Pipeline Leak

PO Box 70 Kirtland NM, 87417 Project Number: Project Manager: 14038-0015

Greg Crabtree

Reported:

29-Jul-15 08:50

#### Bottom Comp P507075-01 (Solid)

		Reporting							
Analyte	Result	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	14
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	



Project Name:

Horseshoe Gallup West Pipeline Leak

PO Box 70

Project Number:

14038-0015

Reported:

Kirtland NM, 87417

Project Manager: Greg Crabtree

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	
rampe	Result	Limit	Units	Level	Result	70REC	Limits	KFD	Limit	Notes	
Batch 1531006 - Purge and Trap EPA 5030A											
Blank (1531006-BLK1)				Prepared: 2	27-Jul-15 A	nalyzed: 2	8-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: 2	7-Jul-15 A	nalyzed: 28	3-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				
o,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)	Sour	rce: P507073-	01	Prepared: 2	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				
o,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)	Sour	ce: P507073-0	01	Prepared: 2	7-Jul-15 Ar	nalyzed: 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		
o,m-Xylene	43.5	0.20		40.0	ND	109	80-125	1.59	15		
-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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Kirtland NM, 87417

Project Name:

Horseshoe Gallup West Pipeline Leak

Source

Project Number: Project Manager:

Reporting

14038-0015

Greg Crabtree

Spike

Reported:

29-Jul-15 08:50

RPD

%REC

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1531005 - DRO Extraction EPA 3	550M									
Blank (1531005-BLK1)				Prepared: 2	27-Jul-15 A	nalyzed: 2	8-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: 2	27-Jul-15 A	nalyzed: 2	8-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	e: P507073-	01	Prepared: 2	7-Jul-15 A	nalyzed: 2				
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	e: P507073-	01	Prepared: 2	7-Jul-15 A	nalyzed: 28	8-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		er	40.0		79.9	50-200	8 10000	-	



PO Box 70

Project Name:

Horseshoe Gallup West Pipeline Leak

Source

Project Number:

Reporting

14038-0015

Spike

Reported:

Kirtland NM, 87417

Project Manager: Greg Crabtree

29-Jul-15 08:50

RPD

%REC

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1531006 - Purge and Trap EPA 50	30A									
Blank (1531006-BLK1)				Prepared: 2	7-Jul-15 A	Analyzed: 2	8-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: 2	7-Jul-15 A	nalyzed: 2	8-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	e: 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	e: P507073-	01	Prepared: 2	7-Jul-15 A	nalyzed: 28	8-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			



Kirtland NM, 87417

Project Name:

Horseshoe Gallup West Pipeline Leak

PO Box 70

Project Number: Project Manager: 14038-0015

Reported:

Greg Crabtree

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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laboratory@envirotech-inc.com

Client: CCI				La	b Use Only				Ana	alysis	od	lab				
Project: Horseshoe Gallup west Ripeline leak			7 1d		Lab WO#											N/N
Sampler: R. Garcia			3d	P 50	7075-1	OIA									_	(s)
Phone:					b Number		015			0.0	١,			1 1	mbe	Prsn
Email(s): Rocac G. Project Manager: Grey Crabtice				140	38-0015	-	by 8	021	8.1	y 30	1				Lab Number	ont/
Project Manager: Grey Crabtree			Pag				ORO	by 8(	y 41	de b	2				Lat	CTC
Sample ID	Sample Date	Sample Time	Matrix		ntainers YPE/Preservati	ive	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Sulfide					Correct Cont/Prsrv (s) Y/N
Bottom Comp 7127115			5	1-402/	6/1001		х				X				1	Y
					+							Ц		Ш		
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Relinquished by: (Signature) Date Time	Received	by Signa	iture)	Date	Time	T1	Ter	mp °	_	_				T3_		
Sample Matrix: 5 - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other					Container Ty		_	_	_		stic, a	ag - ar	nber gla	ss, v -	VOA	
**Samples requiring thermal preservation must be received on ice the c	ay they are sampled		f Custody			han 6C o	on su	bsequ	ent da	ays.					_	
Sample(s) dropped off after hours to a secure drop off area.		Chain 0	Custody	inotes/billin	- B miles											
Canvirotech						-							minm	COR SU		NICHOLD IN



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