

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 to
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: Hare 14A	Facility Type: Gas
Surface Owner BLM	Mineral Owner BLM (SF-076958)
API No. 30-045-29527	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	10	29N	10W	1175	North	1710	West	San Juan

Latitude **36.74496** Longitude **107.87481**

NATURE OF RELEASE

Type of Release Produced Water / Hydrocarbon	Volume of Release 11bbls / 35bbls	Volume Recovered None
Source of Release Oil Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 6/10/2013 at 7:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM - Mark Kelly & NMOCD - Jonathan Kelly	
By Whom? Crystal Tafoya	Date and Hour 6/12/2013 at 7:00 AM	RCUD AUG 8 '13
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.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
1/4" hole discovered on the weld near the bottom of the oil production tank due to suspected corrosion allowing 35bbls Hydrocarbon (crude oil) and 11bbls Produced Water to be released. No fluid was recovered and the well was immediately shut-in. The release did not leave location. Impacted soil was treated with Simple Green immediately.

Describe Area Affected and Cleanup Action Taken.*
NMOCD action levels for release are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 20. Samples were collected and analytical results were above regulatory standards. Excavation and confirmation sampling occurred. The excavation was 30' X 33' X 15' and 600 cubic yards of soil was transported to a third party landfarm. Analytical results were below regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is required. The final report is attached for review.

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: Crystal Tafoya	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 8/19/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/12/2013	Phone: (505) 326-9837	

* Attach Additional Sheets If Necessary

nJK 1323127218



July 31, 2013

Project Number 92115-2452

Ms. Crystal Tafoya
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87402

Phone: (505) 326-9837
Cell: (505) 215-4361

RE: SPILL ASSESSMENT AND CLOSURE REPORT FOR THE HARE #14A (hBR), SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Tafoya:

Enclosed please find the *Spill Assessment and Closure Report* detailing assessment and closure activities conducted at the Hare #14A (hBr) located in Section 10, Township 29 North, Range 10 West, San Juan County, New Mexico.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.


Toni McKnight, EIT
Environmental Project Manager
tmcknight@envirotech-inc.com

Enclosures: *Spill Assessment Report*

Cc: Client File Number 92115

SPILL ASSESSMENT AND CLOSURE REPORT

**LOCATION:
CONOCOPHILLIPS
HARE #14A (HBR)
SECTION 10, TOWNSHIP 29 NORTH, RANGE 10 WEST
SAN JUAN COUNTY, NEW MEXICO**

**CONTRACTED BY:
CONOCOPHILLIPS
MS. CRYSTAL TAFOYA
3401 EAST 30TH STREET
FARMINGTON, NEW MEXICO 87402**

**PROJECT NUMBER 92115-2452
JUNE 2013**

CONOCOPHILLIPS
SPILL ASSESSMENT AND CLOSURE REPORT
HARE #14A WELL SITE (HBR)
SECTION 20, TOWNSHIP 29 NORTH, RANGE 10 WEST
SAN JUAN COUNTY, NEW MEXICO

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INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by ConocoPhillips to provide spill assessment and Closure activities for a leaking above-ground storage tank (AST) at the Hare #14A (hBr) well site located in Section 20, Township 29 North, Range 10 West, San Juan County, New Mexico; see *Figure 1, Vicinity Map*. The release covered an area of approximately 30 feet by 30 feet by greater than 15 feet deep see *Figure 2, Spill Assessment Map* and *Appendix B, Field Notes*. Activities included sample collection and analysis, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on June 12, 2013, with a request to respond to a release from an above-ground storage tank (AST) that occurred at the above referenced location. Upon arrival, a brief site assessment was conducted. Because depth to groundwater was less than 50 feet, the nearest surface water was between 200 and 1000 feet, and the release area was not located within a wellhead protection area, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

A total of six (6) composite samples were collected from within the release area; one (1) from the surface, one (1) at 2.5 feet below ground surface (BGS), one (1) at 5 feet BGS, one (1) at 7.5 feet BGS, one (1) at 10 feet BGS, and one (1) at 15 feet BGS. In addition, one (1) sample was collected approximately five (5) feet outside of the release area at 10 feet BGS. Three (3) of the samples (Surface Spill Composite, 15' BGS Stain, and 5' Outside Stain) were analyzed in the field for TPH using USEPA Method 418.1 All three (3) samples returned results above regulatory standards for TPH; see *Table 1, Summary of Analytical Results, Appendix A, Analytical Results* and *Appendix B, Field Notes*.

All seven (7) samples collected were screened in the field for organic vapors using a photoionization detector (PID). The six (6) samples within the release area returned results above regulatory standards for organic vapors. The sample collected outside of the release area returned results below regulatory standards; see *Table 1, Summary of Analytical Results* and *Appendix B, Field Notes*. The surface composite sample collected within the release area was placed into a four (4) ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for benzene and total BTEX using USEPA Method 8021, TPH using USEPA Method 8015 and Chloride. The samples returned results above regulatory standards for TPH and total BTEX and above 250 ppm for Chlorides; see *Table 1, Summary of Analytical Results* and *Appendix A, Analytical Results*.

Envirotech personnel returned to the site on July 10, 2013 to perform closure activities. ConocoPhillips had excavated the contaminated area approximately 33 feet by 30 feet by approximately 15 feet BGS. Five (5) samples of the excavation were collected; one (1) from the North wall, one (1) from the South wall, one (1) from the East wall, one (1) from the West wall and one (1) from the bottom of the excavation. The samples were analyzed in the field for Total Petroleum Hydrocarbons (TPH) using USEPA method 418.1 and for organic vapors using a photo ionization detector (PID). All samples, except the sample taken from the North wall, returned results below the regulatory standards for all constituents analyzed; see *Table 1, Summary of Analytical Results, Appendix A, Analytical Results* and *Appendix B, Field Notes*. The ConocoPhillips personnel on site removed approximately three (3) additional feet of contaminated soil from the North wall and Envirotech personnel collected one (1) sample from the newly excavated area. The sample was analyzed in the field for TPH using USEPA method 418.1 and for organic vapors using a PID. The sample returned results below the regulatory standards for all constituents analyzed; see *Table 1, Summary of Analytical Results, Appendix A, Analytical Results* and *Appendix B, Field Notes*.

SUMMARY AND CONCLUSIONS

Spill assessment and confirmation activities were performed for a release of condensate from the Hare #14A (hBr) well site located in Section 20, Township 29 North, Range 10 West, San Juan County, New Mexico. Envirotech, Inc., recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill assessment and confirmation sampling activities at the Hare #14A (hBr) well site located in Section 20, Township 29 North, Range 10 West, San Juan County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the New Mexico Oil Conservation Division (NMOCD) and the United States Environmental Protection Agency (USEPA) standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

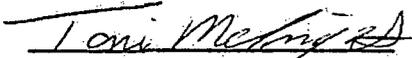
The undersigned has conducted this service at the above referenced site; this work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

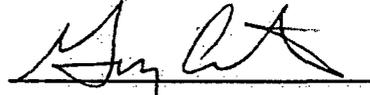
Respectfully Submitted,

ENVIROTECH, INC.

Reviewed by:



Toni McKnight, E.I.T.
Environmental Project Manager
tmcknight@envirotech-inc.com

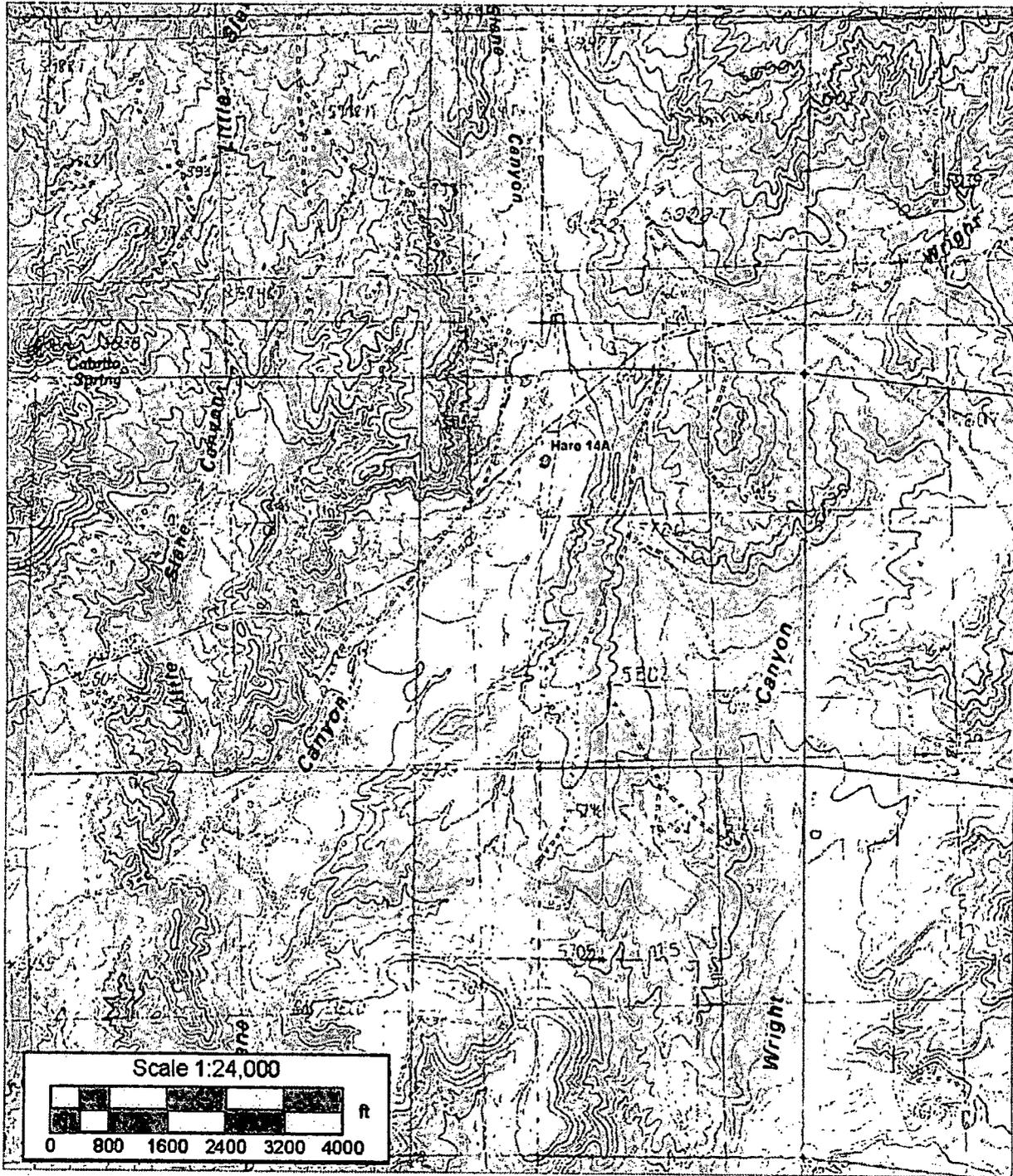


Greg Crabtree, PE
Environmental Manager
gcrabtree@envirotech-inc.com

FIGURES

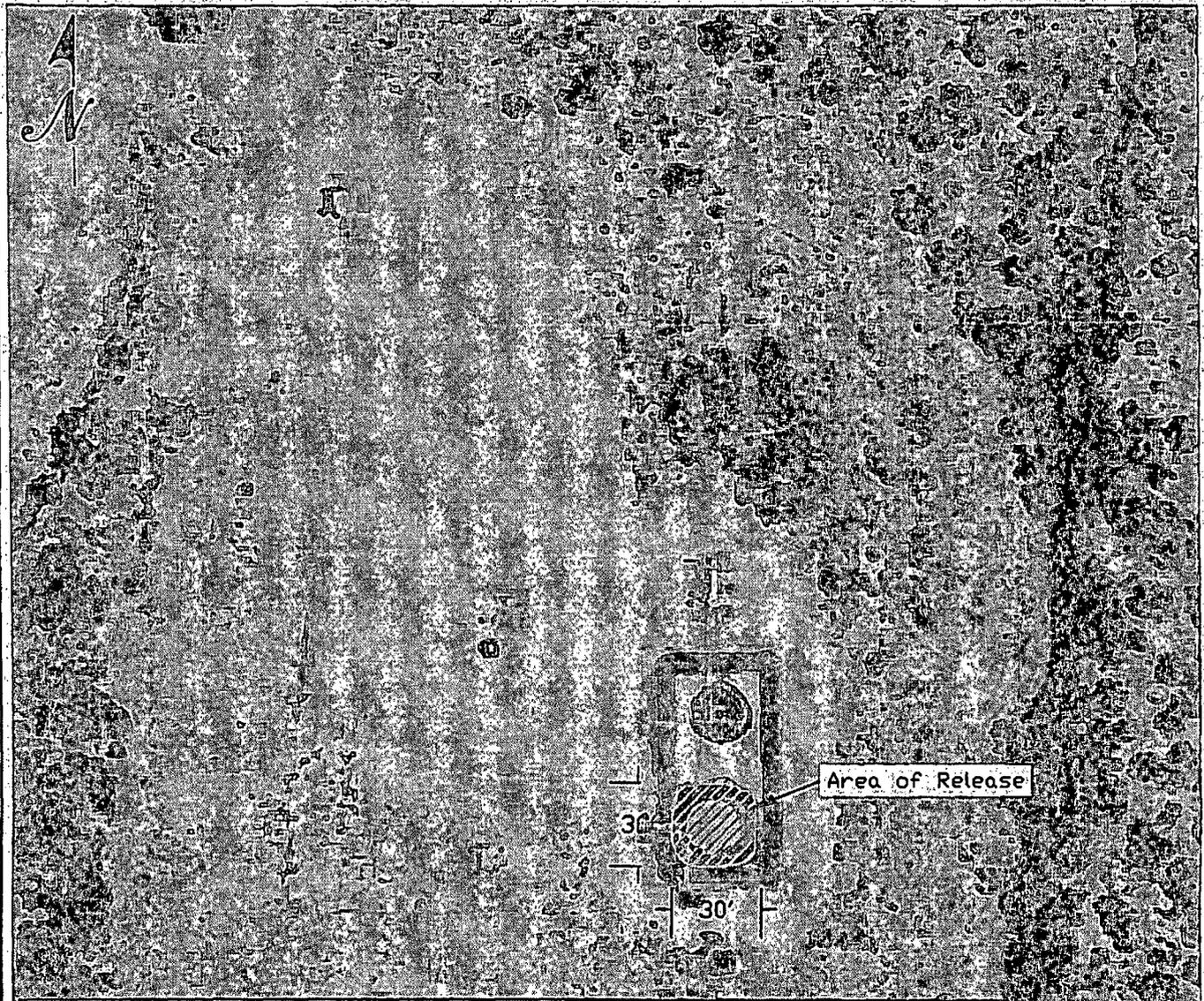
Figure 1, Vicinity Map

Figure 2, Spill Assessment Map

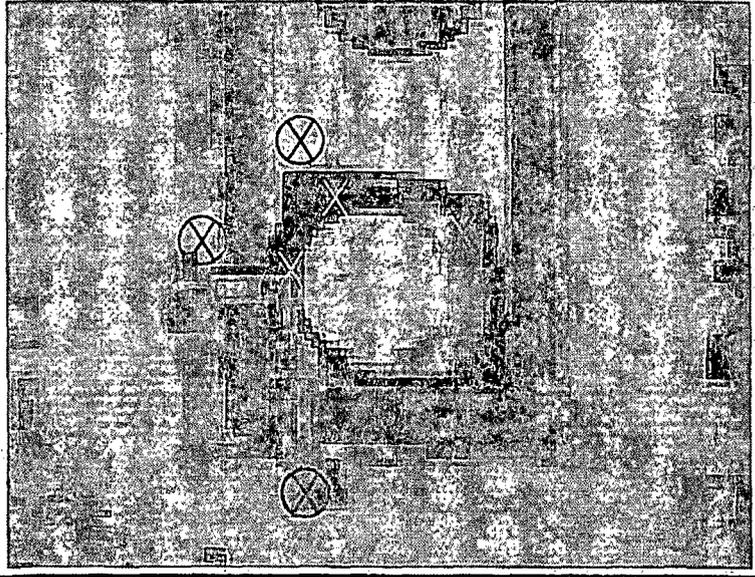


Source: 7.5 Minute Blanco, New Mexico U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2000'

<p>ConocoPhillips Hare #14A (hBr) Well Site Section 10, Township 29N, Range 10W San Juan County, New Mexico</p>	 <p>envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS</p> <p>5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615</p>	<p>Vicinity Map</p>	
<p>PROJECT Number: 92115-2452 Date Drawn: 7/8/2013</p>		<p>Figure #1</p>	
		<p>DRAWN BY: Toni McKnight</p>	<p>PROJECT MANAGER: Greg Crabtree</p>



LEGEND
 Stained Area (Composite) Samples = X
 Outside Stained Area (Composite) Sample = ⊗



Spill Assessment Map
Conoco Phillips
 Hare #14A (hBr)
 Section 10, Township 29N, Range 10W
 San Juan County, New Mexico

SCALE:	FIGURE NO. 2	REV	
PROJECT NO92115-2452			
REVISIONS			
NO.	DATE	BY	DESCRIPTION
MAP DRWN	T.McKnight	6/17/13	BASE DRWN T.McKnight 6/17/13

ENVIROTECH
 ENVIRONMENTAL SCIENTISTS & ENGINEERS

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results

ConocoPhillips

Hare #14A (hBr)

Spill Assessment and Closure Report

Project Number 92115-2452

Date	Sample Description	Sample Number	PID OV (ppm)	USEPA Method 418.1 TPH (ppm)	USEPA Method 8015 TPH (ppm)	Chlorides (ppm)	USEPA Method 8021	
							Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	100	100	100	NA	10	50
6/14/2013	5' Outside Stain	1	83.4	136	NS	NS	NS	NS
6/14/2013	15' BGS Stain	2	313	35100	NS	NS	NS	NS
6/14/2013	Surface Spill Composite	3	1125	84600	17000	504	5.78	1270
6/14/2013	2.5' BGS	4	800	NS	NS	NS	NS	NS
6/14/2013	5' BGS	5	1222	NS	NS	NS	NS	NS
6/14/2013	7.5' BGS	6	486	NS	NS	NS	NS	NS
6/14/2013	10' BGS	7	1348	NS	NS	NS	NS	NS
7/10/2013	North Wall	1	760	12500	NS	NS	NS	NS
7/10/2013	South Wall	2	11.2	64	NS	NS	NS	NS
7/10/2013	East Wall	3	5.6	56	NS	NS	NS	NS
7/10/2013	West Wall	4	3.4	88	NS	NS	NS	NS
7/10/2013	Bottom	5	5.5	80	NS	NS	NS	NS
7/10/2013	3' North of North Wall	6	1.6	64	NS	NS	NS	NS

*Values in **BOLD** above regulatory limits

*NS - Parameter not sampled *ND - Parameter not detected

*Closure Sample

APPENDIX A

Analytical Results



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2452
Sample No.:	1	Date Reported:	7/8/2013
Sample ID:	5' Outside Stain	Date Sampled:	6/14/2013
Sample Matrix:	Soil	Date Analyzed:	6/14/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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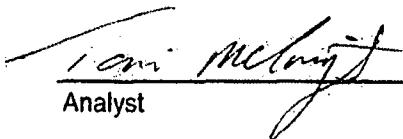
Total Petroleum Hydrocarbons	136	5.0
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ND = Parameter not detected at the stated detection limit.

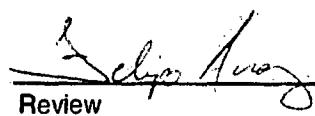
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Hare #14A**

Instrument calibrated to 200 ppm standard and zeroed before each sample.



 Analyst



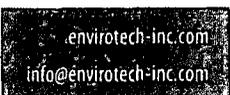
 Review

Toni McKnight, EIT

 Printed

Felipe Aragon

 Printed





**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-2452
Sample No.: 2 Date Reported: 7/8/2013
Sample ID: 15' BGS Stain Date Sampled: 6/14/2013
Sample Matrix: Soil Date Analyzed: 6/14/2013
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	35,100	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Hare #14A**

Instrument calibrated to 200 ppm standard and zeroed before each sample.


Analyst

Toni McKnight, EIT
Printed


Review

Felipe Aragon
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-2452
Sample No.: 3 Date Reported: 7/8/2013
Sample ID: Surface Spill Comp Date Sampled: 6/14/2013
Sample Matrix: Soil Date Analyzed: 6/14/2013
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	84,600	5.0

ND = Parameter not detected at the stated detection limit.

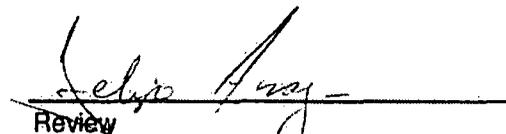
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Hare #14A**

Instrument calibrated to 200 ppm standard and zeroed before each sample.


Analyst

Toni McKnight, EIT
Printed


Review

Felipe Aragon
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 14-Jun-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	216
	200	
	500	
	1000	
	5000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.


Analyst

7/8/2013
Date

Toni McKnight, EIT
Print Name


Review

7/8/2013
Date

Felipe Aragon
Print Name





Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number: 15719

Samples Received: 6/17/2013 8:45:00AM

Job Number: 92115-2452

Work Order: P306076

Project Name/Location: Hare #14A (HBr) Spill
Assessment

Entire Report Reviewed By:

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

Date: 6/24/13

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.



ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Hare #14A (HBr) Spill Assessment Project Number: 92115-2452 Project Manager: Toni McKnight	Reported: 24-Jun-13 15:36
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Surface Spill Comp	P306076-01A	Soil	06/14/13	06/17/13	Glass Jar, 4 oz.

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

Ph (505) 632-0615 Fx (505) 632-1865
Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Hare #14A (HBr) Spill Assessment Project Number: 92115-2452 Project Manager: Toni McKnight	Reported: 24-Jun-13 15:36
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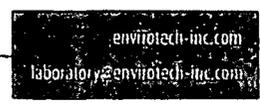
**Surface Spill Comp
P306076-01 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatil Organic by EPA 8021										
Benzene	5.78	0.50	mg/kg	10	1325007	17-Jun-13	23-Jun-13	EPA 8021B		
Toluene	169	0.50	mg/kg	10	1325007	17-Jun-13	23-Jun-13	EPA 8021B		
Ethylbenzene	85.1	0.50	mg/kg	10	1325007	17-Jun-13	23-Jun-13	EPA 8021B		
p,m-Xylene	816	0.50	mg/kg	10	1325007	17-Jun-13	23-Jun-13	EPA 8021B		
o-Xylene	199	0.50	mg/kg	10	1325007	17-Jun-13	23-Jun-13	EPA 8021B		
Total Xylenes	1020	0.50	mg/kg	10	1325007	17-Jun-13	23-Jun-13	EPA 8021B		
Total BTEX	1270	0.50	mg/kg	10	1325007	17-Jun-13	23-Jun-13	EPA 8021B		
Surrogate: Bromochlorobenzene		174 %		80-120	1325007	17-Jun-13	23-Jun-13	EPA 8021B	Surr1	
Surrogate: 1,4-Difluorobenzene		98.9 %		80-120	1325007	17-Jun-13	23-Jun-13	EPA 8021B		
Surrogate: Fluorobenzene		108 %		80-120	1325007	17-Jun-13	23-Jun-13	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	11600	4.98	mg/kg	1	1325009	17-Jun-13	23-Jun-13	EPA 8015D		
Diesel Range Organics (C10-C28)	5410	4.98	mg/kg	1	1325009	17-Jun-13	23-Jun-13	EPA 8015D		
GRO and DRO Combined Fractions	17000	4.98	mg/kg	1	1325009	17-Jun-13	23-Jun-13	EPA 8015D		
Cation/Anion Analysis										
Chloride	504	10.0	mg/kg	1	1325006	17-Jun-13	17-Jun-13	EPA 300.0		

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

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





ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Hare #14A (HBr) Spill Assessment Project Number: 92115-2452 Project Manager: Toni McKnight	Reported: 24-Jun-13 15:36
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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 1325007 - Purge and Trap EPA 5030A

Blank (1325007-BLK1)		Prepared: 17-Jun-13 Analyzed: 23-Jun-13								
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: Bromochlorobenzene	54.5		ug/L	50.0		109	80-120			
Surrogate: 1,4-Difluorobenzene	50.8		"	50.0		102	80-120			
Surrogate: Fluorobenzene	51.0		"	50.0		102	80-120			

Duplicate (1325007-DUP1)		Source: P306067-01		Prepared: 17-Jun-13 Analyzed: 23-Jun-13						
Benzene	ND	0.05	mg/kg		ND					30
Toluene	ND	0.05	"		ND					30
Ethylbenzene	ND	0.05	"		ND					30
p,m-Xylene	ND	0.05	"		ND					30
o-Xylene	ND	0.05	"		ND					30
Surrogate: Bromochlorobenzene	48.3		ug/L	50.0		96.6	80-120			
Surrogate: 1,4-Difluorobenzene	51.5		"	50.0		103	80-120			
Surrogate: Fluorobenzene	53.8		"	50.0		108	80-120			

Matrix Spike (1325007-MS1)		Source: P306067-01		Prepared: 17-Jun-13 Analyzed: 23-Jun-13						
Benzene	0.05	0.001	mg/kg	0.0498	ND	108	39-150			
Toluene	0.05	0.001	"	0.0498	ND	99.0	46-148			
Ethylbenzene	0.05	0.001	"	0.0498	ND	95.6	32-160			
p,m-Xylene	0.10	0.001	"	0.0997	ND	100	46-148			
o-Xylene	0.05	0.001	"	0.0498	ND	97.6	46-148			
Surrogate: Bromochlorobenzene	49.1		ug/L	50.0		98.2	80-120			
Surrogate: 1,4-Difluorobenzene	54.9		"	50.0		110	80-120			
Surrogate: Fluorobenzene	56.0		"	50.0		112	80-120			

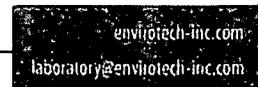
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Ph (505) 632-0615 Fx (505) 632-1865

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

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





ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Hare #14A (HBr) Spill Assessment Project Number: 92115-2452 Project Manager: Toni McKnight	Reported: 24-Jun-13 15:36
---	--	------------------------------

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
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Batch 1325009 - GRO/DRO Extraction EPA 3550C

Blank (1325009-BLK1)		Prepared: 17-Jun-13 Analyzed: 21-Jun-13								
Gasoline Range Organics (C6-C10)	ND	4.93	mg/kg							
Diesel Range Organics (C10-C28)	ND	4.93	"							
GRO and DRO Combined Fractions	ND	4.93	"							
Duplicate (1325009-DUP1)		Source: P306067-01		Prepared: 17-Jun-13 Analyzed: 21-Jun-13						
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Diesel Range Organics (C10-C28)	ND	5.00	"		ND				30	
Matrix Spike (1325009-MS1)		Source: P306067-01		Prepared: 17-Jun-13 Analyzed: 21-Jun-13						
Gasoline Range Organics (C6-C10)	109		mg/L	250	0.64	43.2	75-125			SPK1
Diesel Range Organics (C10-C28)	290		"	250	4.03	114	75-125			

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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Hare #14A (HBr) Spill Assessment Project Number: 92115-2452 Project Manager: Toni McKnight	Reported: 24-Jun-13 15:36
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Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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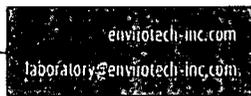
Batch 1325006 - Anion Extraction EPA 300.0

Blank (1325006-BLK1)				Prepared & Analyzed: 17-Jun-13						
Chloride	ND	10.0	mg/kg							
Duplicate (1325006-DUP1)				Source: P306075-01 Prepared & Analyzed: 17-Jun-13						
Chloride	14000	99.9	mg/kg		14000			0.272	30	

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Hare #14A (HBr) Spill Assessment
Project Number: 92115-2452
Project Manager: Toni McKnight

Reported:
24-Jun-13 15:36

Notes and Definitions

Surr1 Surrogate recovery was above acceptable limits.
SPK1 The spike recovery for this QC sample 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

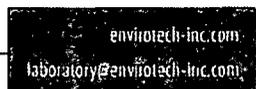
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CHAIN OF CUSTODY RECORD

15719

Page 8 of 8

Client: Conoco Phillips	Project Name / Location: HARE #14A (HRC) SPILL ASSESSMENT	ANALYSIS / PARAMETERS											
Email results to: tmcknight@envirotech-inc.com	Sampler Name: T. McKnight	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
Client Phone No.:	Client No.:												

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
					HNO ₃	HCl	Del												
Surface Spill Comp	6/14/13	16:07	P306076-01	1-4oz			✓	✓	✓								✓	✓	✓

Relinquished by: (Signature) <i>Toni McKnight</i>	Date 6/17/13	Time 8:45	Received by: (Signature) <i>[Signature]</i>	Date 6/17/13	Time 8:45
Relinquished by: (Signature)			Received by: (Signature) <i>[Signature]</i>		

Sample Matrix
 Soil
 Solid
 Sludge
 Aqueous
 Other _____

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





**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-2452
Sample No.: 1 Date Reported: 7/31/2013
Sample ID: North Wall Date Sampled: 7/10/2013
Sample Matrix: Soil Date Analyzed: 7/10/2013
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	12,500	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Hare #14A**

Instrument calibrated to 200 ppm standard and zeroed before each sample.



Analyst

Rene Garcia Reyes

Printed



Review

Toni McKnight, EIT

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-2452
Sample No.: 2 Date Reported: 7/31/2013
Sample ID: South Wall Date Sampled: 7/10/2013
Sample Matrix: Soil Date Analyzed: 7/10/2013
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

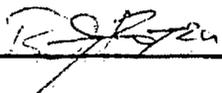
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	64	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

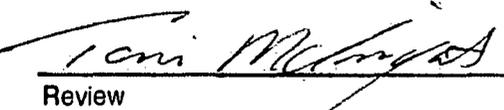
Comments: **Hare #14A**

Instrument calibrated to 200 ppm standard and zeroed before each sample.



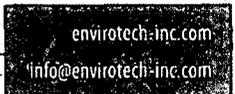
Analyst

Rene Garcia Reyes
Printed



Review

Toni McKnight, EIT
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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-2452
Sample No.: 3 Date Reported: 7/31/2013
Sample ID: East Wall Date Sampled: 7/10/2013
Sample Matrix: Soil Date Analyzed: 7/10/2013
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	56	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

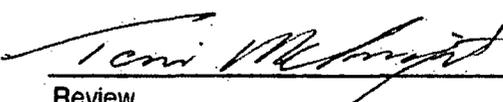
Comments: **Hare #14A**

Instrument calibrated to 200 ppm standard and zeroed before each sample.



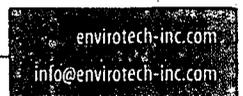
Analyst

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Printed



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Toni McKnight, EIT
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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2452
Sample No.:	4	Date Reported:	7/31/2013
Sample ID:	West Wall	Date Sampled:	7/10/2013
Sample Matrix:	Soil	Date Analyzed:	7/10/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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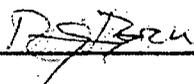
Total Petroleum Hydrocarbons	88	5.0
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ND = Parameter not detected at the stated detection limit.

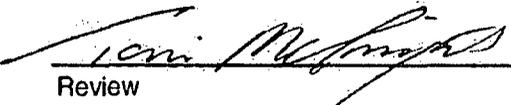
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Hare #14A**

Instrument calibrated to 200 ppm standard and zeroed before each sample.



 Analyst



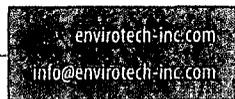
 Review

Rene Garcia Reyes

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Toni McKnight, EIT

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envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2452
Sample No.:	5	Date Reported:	7/31/2013
Sample ID:	Bottom	Date Sampled:	7/10/2013
Sample Matrix:	Soil	Date Analyzed:	7/10/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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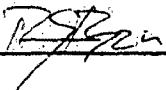
Total Petroleum Hydrocarbons	80	5.0
-------------------------------------	-----------	------------

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments Hare #14A

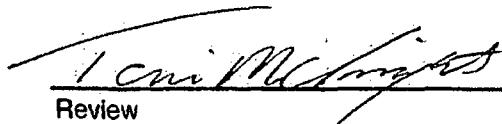
Instrument calibrated to 200 ppm standard and zeroed before each sample.



 Analyst

Rene Garcia Reyes

 Printed



 Review

Toni McKnight, EIT

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2452
Sample No.:	6	Date Reported:	7/31/2013
Sample ID:	3' North of North Wall	Date Sampled:	7/10/2013
Sample Matrix:	Soil	Date Analyzed:	7/10/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	64	5.0
-------------------------------------	-----------	------------

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments Hare #14A

Instrument calibrated to 200 ppm standard and zeroed before each sample.



Analyst

Rene Garcia Reyes

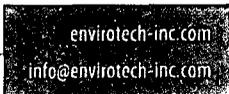
Printed



Review

Toni McKnight, EIT

Printed



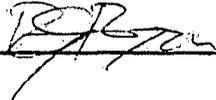


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 10-Jul-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	200
	500	
	1000	
	5000	5000

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.



Analyst

7/31/2013

Date

Rene Garcia Reyes

Print Name



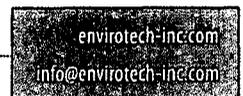
Review

7/31/2013

Date

Toni McKnight, EIT

Print Name



APPENDIX B

Field Notes

Client:
ConocoPhillips



Project No:
92115-2452
COC No:
15719

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: **1** OF **1**

LOCATION: NAME: **HARE** WELL#: **14A**
QUAD/UNIT: **C** SEC: **10** TWP: **29N** RNG: **10W** PM: **NM** CNTY: **SJ** ST: **NM**
QTR/FOOTAGE: **1175' FNL & 1710' FWL** CONTRACTOR: **Envirotech**

DATE STARTED: **June 14, 2013**
DATE FINISHED: **June 14, 2013**
ENVIRONMENTAL
SPECIALIST: **T. McKnight**

EXCAVATION APPROX: **NA FT. X NA FT. X NA FT.** DEEP CUBIC YARDAGE: **NA**
DISPOSAL FACILITY: **NA** REMEDIATION METHOD: **NA**
LAND USE: **Grazing/Recreation** LEASE: **NMSE 076958** LAND OWNER: **State/Federal**
CAUSE OF RELEASE: **Leaking AST** MATERIAL RELEASED:

SPILL LOCATED APPROXIMATELY: **75 FT. 130°** FROM Wellhead
DEPTH TO GROUNDWATER: **< 50'** NEAREST WATER SOURCE: **~4,975'** NEAREST SURFACE WATER: **~225'**
NMOCD RANKING SCORE: **20** NMOCD TPH CLOSURE STD: **100** PPM

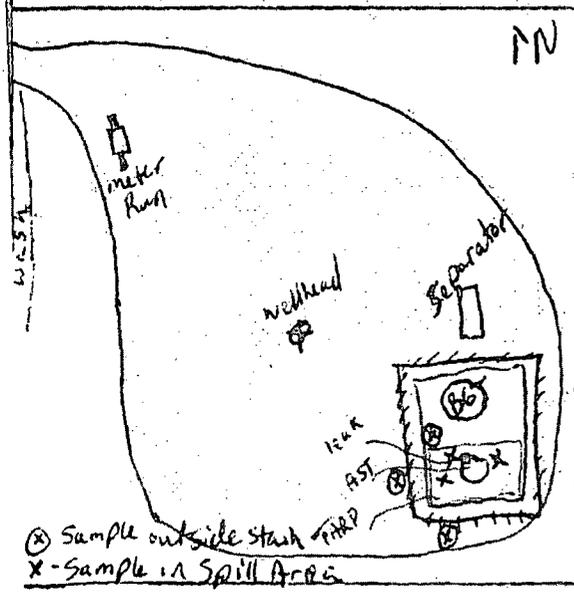
SOIL AND EXCAVATION DESCRIPTION:
API #: **3004529527**
Samples collected from within stained Area (composite) at surface, 2.5' BGS, 5' BGS, 7.5' BGS, 10' BGS, & 15' BGS.
Samples collected outside of stained Area (composite) at ~ 5' horizontal + 10' BGS.
Area ~ 30' x 30' x 7.5' deep. 15' max depth w/ hand Augers.

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	ML FREON	DILUTION	READING	CALC. ppm
200 STD	15:40	—	—	—	—	—	216	—
5' Outside Stain	15:53	1	—	5	20	4	34	136
15' BGS Stain	15:59	2	—	5	20	4	5104	above Instrument Cal
"	16:00	2	—	(1ml)	(5ml)	20	1756	35.120
Surface Spill Comp	16:04	3	1	5	20	4	7260	above Instrument Cal
"	16:07	3	1	(1ml)	(5ml)	20	4228	84560

SPILL PERIMETER

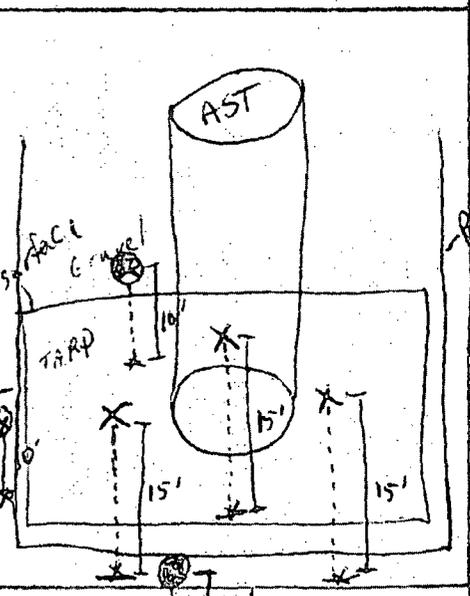
OVM RESULTS

SPILL PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	8314
2	313
3	1125
2.5' BGS	800
5' BGS	1222
7.5' BGS	486
10' BGS	1348

SAMPLE ID	ANALYSIS	TIME
3	TPH, Benzene, BTEX, C	



RAVF NO 5.

Client: COPC (LBR)



Project No: 92115-2452
COC No: 00

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

LOCATION: NAME: Hare ~~XXXX~~ WELL #: 14A
QUAD/UNIT: SEC: 10 TWP: 29N RNG: 10W PM: CNTY: SIT ST: NM
QTR/FOOTAGE: 1175'N & 1710'W CONTRACTOR: M & M Trucking

DATE STARTED: 7/10/13
DATE FINISHED: 7/10/13
ENVIRONMENTAL SPECIALIST: Dave Isaac

EXCAVATION APPROX: 33 FT. X 30 FT. X 15 FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: _____ REMEDIATION METHOD: Landfarm
LAND USE: Grazing LEASE: _____ LAND OWNER: _____
CAUSE OF RELEASE: _____ MATERIAL RELEASED: 35 bbls hydrocarbons / 11 bbls Petro

SPILL LOCATED APPROXIMATELY: 65 FT. 140° FROM Wellhead
DEPTH TO GROUNDWATER: 250' NEAREST WATER SOURCE: u500' NEAREST SURFACE WATER: u225'
NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION:

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>100, 200, 500, 1000, 5000</u>		<u>STD</u>					<u>100, 200, 500, 1000, 5000</u>	
<u>North Wall</u>	<u>13:50</u>	<u>1</u>		<u>5</u>	<u>20</u>	<u>x4</u>	<u>3018</u>	<u>12472</u>
<u>South Wall</u>	<u>13:00</u>	<u>2</u>					<u>16</u>	<u>64</u>
<u>East Wall</u>	<u>14:10</u>	<u>3</u>					<u>14</u>	<u>56</u>
<u>West Wall</u>	<u>14:20</u>	<u>4</u>					<u>22</u>	<u>88</u>
<u>Bottom</u>	<u>14:30</u>	<u>5</u>					<u>20</u>	<u>80</u>
<u>3' North of North Wall</u>	<u>15:00</u>	<u>6</u>					<u>16</u>	<u>64</u>

SPILL PERIMETER

OVM RESULTS

SPILL PROFILE

SAMPLE ID	FIELD HEADSPACE PID (ppm)	
	<u>1</u>	<u>760</u>
<u>2</u>	<u>11.2</u>	
<u>3</u>	<u>5.6</u>	
<u>4</u>	<u>3.4</u>	
<u>5</u>	<u>5.5</u>	
<u>6</u>	<u>1.6</u>	

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: _____ CALLED OUT: 11:30 ONSITE: 12:45