

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office 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: Walker Koch 2C	Facility Type: Gas Well
Surface Owner Federal	Mineral Owner Federal (NM-014110)
API No. 30-045-30746	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	10	31N	10W	885	South	1740	West	San Juan

Latitude 36.90803 Longitude -107.8723

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 33 BBLS	Volume Recovered 0 BBLS
Source of Release Production Pit	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 12/17/2013 at 10:20 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM (Shari Ketcham) & NMOCD (Jonathan Kelly)	
By Whom? Crystal Tafoya	Date and Hour 12/17/13 at 3:34 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.*
N/A

**RCUD MAR 11 '14
OIL CONS. DIV.
DIST. 3**

Describe Cause of Problem and Remedial Action Taken.*
MSO discovered a leak coming from the production pit allowing 33bbbls of Produced Water to be released. The leak was stopped and a water truck was contacted to pull the rest of the pit. The location was shut-in and the release remained on location.

Describe Area Affected and Cleanup Action Taken.*
NMOCD action levels for releases 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 are below applicable NMOCD action levels. No further work will be performed. 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: 4/25/14	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3/10/14 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

Incident #: **NCS 1411556685**



March 4, 2014

Project Number 92115-2539

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

Phone: (505) 215-4361
Fax: (505) 599-4005

**RE: SPILL ASSESSMENT DOCUMENTATION FOR THE WALKER KOCH #2C (HBR) WELL SITE,
SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Tafoya,

Enclosed please find the field notes and analytical results for spill assessment activities performed at the Walker Koch #2C well site located in Section 10, Township 31 North, Range 10 West, San Juan County, New Mexico. An above-ground storage tank (AST) at the above referenced well site overflowed, releasing approximately 33 barrels (bbls) of produced water into the surrounding area; see enclosed *Field Notes*. Upon Envirotech personnel's arrival on December 23, 2013, a brief site assessment was conducted. Because depth to groundwater was between 50 and 100 feet, nearest surface water was between 200 and 1000 feet, and the well site was not located within a well head 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.

The area between the berms was divided into two (2) sections: the north section and the south section. One (1) five (5)-point composite sample was collected from each of the two (2) sections; see enclosed *Field Notes*. Both samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The north composite sample returned a result above the regulatory standard for TPH but below the regulatory standard for organic vapor; see enclosed *Field Notes*, *Analytical Results* and *Summary of Analytical Results*. The south composite sample returned a result below the regulatory standard for TPH and organic vapor; see enclosed *Field Notes*, *Analytical Results* and *Summary of Analytical Results*.

Additionally, both samples were placed into four (4)-ounce glass jars, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 300. The north composite sample was also submitted for laboratory analysis of TPH using USEPA Method 8015. Both samples returned results that were non-detect for chlorides; see enclosed *Analytical Results* and *Summary of Analytical Results*. The north composite sample returned a result below the regulatory standard

for TPH; see enclosed *Analytical Results* and *Summary of Analytical Results*. Therefore, Envirotech, Inc. recommends no further action.

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

Respectfully submitted,
ENVIROTECH, INC.


Tiffany McIntosh
Staff Scientist
tmcintosh@envirotech-inc.com

Enclosure(s): Summary of Analytical Results
Analytical Results
Field Notes

Cc: Client File 92115

Table 1, Summary of Analytical Results
 ConocoPhillips
 Walker Koch #2C (hBr)
 Spill Assessment Report
 San Juan County, New Mexico
 Project Number 92115-2539

Sample Description	Sample Number	Date	TPH USEPA Method 418.1 (ppm)	TPH USEPA Method 8015 (ppm)	Chloride USEPA Method 300 (ppm)	OVM (ppm)
NMOCD/RCRA Standards	NA	NA	100	100	NA	100
North Composite	1	12/23/2013	104	33.1	ND	2.0
South Composite	2	12/23/2013	64	NS	ND	3.1

NS = Not Sampled

ND = Non-Detect at Stated Method's Detection Limit

* Values in **BOLD** above regulatory standards



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-2539
Sample No.: 1 Date Reported: 1/6/2014
Sample ID: North Composite Date Sampled: 12/23/2013
Sample Matrix: Soil Date Analyzed: 12/23/2013
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	104	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: Walker Koch #2C (hBr)

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


Analyst

Tiffany McIntosh
Printed


Review

Toni McKnight, EIT
Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: ConocoPhillips Project #: 92115-2539
Sample No.: 2 Date Reported: 1/6/2014
Sample ID: South Composite Date Sampled: 12/23/2013
Sample Matrix: Soil Date Analyzed: 12/23/2013
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.

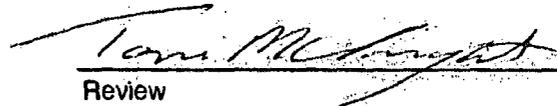
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Walker Koch #2C (hBr)**

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


Analyst

Tiffany McIntosh
Printed


Review

Toni McKnight, EIT
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 23-Dec-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	201
	200	
	500	
	1000	

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

Tiffany McIntosh
Analyst

1/6/2014

Date

Tiffany McIntosh

Print Name

Toni McKnight
Review

1/6/2014

Date

Toni McKnight, EIT

Print Name



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number: 16292

Samples Received: 12/23/2013 1:00:00PM

Job Number: 92115-2539

Work Order: P312110

Project Name/Location: Walker Koch #2C

Entire Report Reviewed By:

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

Date: 1/3/14

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: Walker Koch #2C Project Number: 92115-2539 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 17:04
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North Composite	P312110-01A	Soil	12/23/13	12/23/13	Glass Jar, 4 oz.
South Composite	P312110-02A	Soil	12/23/13	12/23/13	Glass Jar, 4 oz.

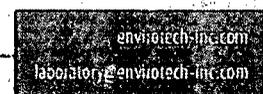
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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Walker Koch #2C Project Number: 92115-2539 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 17:04
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**North Composite
P312110-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8015D	
Diesel Range Organics (C10-C28)	33.1	30.0	mg/kg	1	1353008	12/30/13	01/01/14	EPA 8015D	
GRO and DRO Combined Fractions	33.1	4.98	mg/kg		[CALC]	12/30/13	01/03/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.82	mg/kg	1	1353012	12/30/13	12/31/13	EPA 300.0	

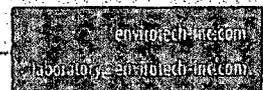
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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Walker Koch #2C Project Number: 92115-2539 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 17:04
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**South Composite
P312110-02 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cation/Anion Analysis										
Chloride	ND	9.97		mg/kg	1	1353012	12/30/13	12/31/13	EPA 300.0	

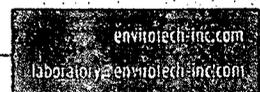
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ConocoPhillips PO Box 2200 Bartlesville, OK, 74005	Project Name: Walker Koch #2C Project Number: 92115-2539 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 17:04
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Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1353008 - DRO Extraction: EPA 3550C										
Blank (1353008-BLK1)										
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							Prepared: 30-Dec-13 Analyzed: 01-Jan-14
Duplicate (1353008-DUP1)										
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	Source: P312107-01 Prepared: 30-Dec-13 Analyzed: 01-Jan-14
Matrix Spike (1353008-MS1)										
Diesel Range Organics (C10-C28)	230		mg/L	250	7.35	88.9	75-125			Source: P312107-01 Prepared: 30-Dec-13 Analyzed: 01-Jan-14

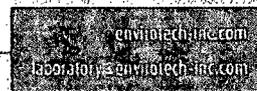
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ConocoPhillips PO Box 2200 Bartlesville OK; 74005	Project Name: Walker Koch #2C Project Number: 92115-2539 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 17:04
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Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1353009 - Purge and Trap EPA 5030A										
Blank (1353009-BLK1)										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							Prepared: 30-Dec-13 Analyzed: 31-Dec-13
Duplicate (1353009-DUPI)										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	Source: P312107-01 Prepared: 30-Dec-13 Analyzed: 31-Dec-13
Matrix Spike (1353009-MS1)										
Gasoline Range Organics (C6-C10)	0.47		mg/L	0.450	0.04	95.1	75-125			Source: P312107-01 Prepared: 30-Dec-13 Analyzed: 31-Dec-13

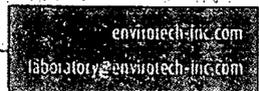
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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Walker Koch #2C Project Number: 92115-2539 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 17:04
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Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1353012 - Anion Extraction EPA 300.0										
Blank (1353012-BLK1)										
Chloride	ND	9.98	mg/kg							Prepared: 30-Dec-13 Analyzed: 31-Dec-13
LCS (1353012-BS1)										
Chloride	506	9.96	mg/kg	498		102	90-110			Prepared: 30-Dec-13 Analyzed: 31-Dec-13
Matrix Spike (1353012-MS1)										
Chloride	488	9.78	mg/kg	489	ND	99.9	80-120			Source: P312110-01 Prepared: 30-Dec-13 Analyzed: 31-Dec-13
Matrix Spike Dup (1353012-MSD1)										
Chloride	502	9.92	mg/kg	496	ND	101	80-120	2.82	20	Source: P312110-01 Prepared: 30-Dec-13 Analyzed: 31-Dec-13

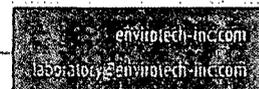
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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Walker Koch #2C Project Number: 92115-2539 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 17:04
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Notes and Definitions

- 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

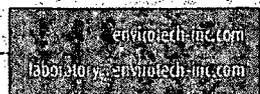
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CHAIN OF CUSTODY RECORD

16292

Page 9 of 9

Client: COPC (hBr)			Project Name / Location: Walker Koch #2C			ANALYSIS / PARAMETERS															
Email results to: T. McIntosh			Sampler Name: T. McIntosh			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.: 505-215-4361			Client No.: 92115-2539																		
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	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HNO ₃	HCl	COOL														
North composite	12/23/13	10:22	P3210-01	1-4oz jar			X	X									X			Y	Y
South composite	12/23/13	10:24	P3210-02	1			1										X			Y	Y
Relinquished by: (Signature) <i>Liffany McIntosh</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time										
Relinquished by: (Signature)				12/23/13	13:00	Received by: (Signature)				12/23/13	13:00										
Sample Matrix																					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																					
																					
5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com																					

Client: **COPC (hBr)**

envirotech
 (800) 632-0615 (800) 362-1879
 5706 U.S. Hwy 64, Farmington, NM 87401

Project No: **92115-2539**
 COC No: **16292**

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

LOCATION: NAME: Walker Koch WELL#: 2C

QUAD/UNIT: N SEC: 10 TWP: 3N RNG: 10W PM: NA CNTY: SJ ST: NM

QTR/FOOTAGE: NA CONTRACTOR: NA

DATE STARTED: 12/23/13
 DATE FINISHED: 12/23/13

ENVIRONMENTAL SPECIALIST: T. McIntosh

EXCAVATION APPROX: 50 FT. X 70 FT. X NA FT. DEEP CUBIC YARDAGE: NA

DISPOSAL FACILITY: NA REMEDIATION METHOD: NA

LAND USE: NA LEASE: NA LAND OWNER: NA

CAUSE OF RELEASE: Tank overflow MATERIAL RELEASED: ~33 BBLs of produced water

SPILL LOCATED APPROXIMATELY: 107 FT. 306° FROM well head

DEPTH TO GROUNDWATER: 50-99' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: 260'

NMOC D RANKING SCORE: 20 NMOC D 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
200 standard	10:07	—	—	—	—	—	201	—
North composite	10:22	1	—	5	20	4	26	104
South composite	10:24	2	—	5	20	4	16	64

SPILL PERIMETER OVM RESULTS SPILL PROFILE

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	3.0
2	3.1

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME
1	8015, Cl-	
2	Cl-	

~50'

~70'

2-5-pt. composite samples (surface)

TRAVEL NOTES: _____ CALLED OUT: _____ ONSITE: _____