

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

OCT 13 2015

Form C-141  
Revised August 8, 2011

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

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

## Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Burlington Resources Oil & Gas Co.	Contact Lindsay Dumas
Address 3401 East 30 <sup>th</sup> St, Farmington, NM	Telephone No. (505) 258-1643
Facility Name: Douthit 3	Facility Type: Gas

Surface Owner: Private	Mineral Owner: SF-078092	API No. 3004506213
------------------------	--------------------------	--------------------

## LOCATION OF RELEASE

Unit Letter <b>P</b>	Section <b>26</b>	Township <b>27N</b>	Range <b>11W</b>	Feet from the <b>990'</b>	North/South Line <b>FSL</b>	Feet from the <b>990'</b>	East/West Line <b>FEL</b>	County <b>San Juan</b>
-------------------------	----------------------	------------------------	---------------------	------------------------------	--------------------------------	------------------------------	------------------------------	---------------------------

Latitude 36.54161 Longitude -107.96712

## NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Unknown	Volume Recovered 0
Source of Release BGT	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>7/22/2011</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

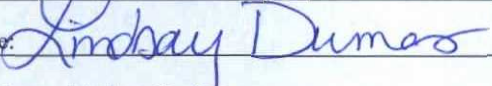

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Describe Area Affected and Cleanup Action Taken.\*

The below grade tank sample results were above regulatory standard by USEPA method 418.1 for TPH and Organic Vapors, confirming a release. The sample was then transported to the lab and analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required.

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: Lindsay Dumas	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: <u>12/1/2015</u>	Expiration Date:
E-mail Address: Lindsay.Dumas@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/8/2015	Phone: (505) 258-1643	

\* Attach Additional Sheets If Necessary

NCS1533530738



August 24, 2011

Project Number 92115-1856

Ms. Shelly Cook-Cowden  
Conoco Phillips  
3401 East 30<sup>th</sup> Street  
Farmington, New Mexico 87401

Phone: (505) 324-5140

**RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE DOUTHIT #3 (hBr)  
WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Cook-Cowden,

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities performed at the Douthit #3 (hBr) well site located in Section 26, Township 27 North, Range 11 West, San Juan County, New Mexico. Prior to Envirotech's arrival on July 22, 2011, the BGT had been removed. A brief site assessment was conducted and the regulatory standards were determined to be 1000 ppm TPH and 100 ppm organic vapors due to horizontal distance to surface water being between 200 and 1,000 feet and depth to groundwater greater than 100 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. The sample from beneath the former BGT returned results below the regulatory standards for TPH; see attached *Analytical Results*. Envirotech, Inc. recommends no further action in regards to this assessment.

One (1) five (5)-point composite sample was collected from beneath the former BGT. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a photoionization detector (PID), and for chlorides. Additionally, the sample 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 BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for benzene, BTEX and chlorides, but above regulation standards for TPH.

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.

Conoco Phillips  
Douthit #3 (hBr)  
BGT Closure Sampling  
Project Number 92115-1856  
Page 2

Respectfully submitted,  
**ENVIROTECH, INC.**

*DBZK For Crystal Delgai*  
Crystal Delgai / Environmental Field Technician  
[cdelgai@envirotech-inc.com](mailto:cdelgai@envirotech-inc.com)

Enclosures: Analytical Results  
Field Notes

Cc: Client File 92115

# ENVIROTECH INC

ENVIRONMENTAL SCIENTISTS & ENGINEERS  
5796 U.S. HIGHWAY 64  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

ENVIRONMENTAL SPECIALIST:

C. Delgai

LAT: 36.54161

LONG: -107.96712

PAGE NO: 1 OF 1

DATE STARTED: 7/22/11

DATE FINISHED: 7/22/11

## FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: Douglas WELL #: 3 TEMP PIT: PERMANENT PIT: BGT: ☒  
LEGAL ADD: UNIT: P SEC: 26 TWP: 27N RNG: 11W PM: NM  
QTR/FOOTAGE: 990 E 990S CNTY: San Juan ST: New Mexico

EXCAVATION APPROX: NA FT. X NA FT. X NA FT. DEEP CUBIC YARDAGE: NA  
DISPOSAL FACILITY: NA REMEDIATION METHOD: NA  
LAND OWNER: API: 3004506213 BGT / PIT VOLUME:  
CONSTRUCTION MATERIAL: DOUBLE-WALLED, WITH LEAK DETECTION:

LOCATION APPROXIMATELY: 192 FT. 195-150 FROM WELLHEAD

DEPTH TO GROUNDWATER: 160'

TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP

BENZENE  $\leq 0.2$  mg/kg, BTEX  $\leq 50$  mg/kg, GRO & DRO FRACTION (8015)  $\leq 500$  mg/kg, TPH (418.1)  $\leq 2500$  mg/kg, CHLORIDES  $\leq 500$  mg/kg

TEMPORARY PIT - GROUNDWATER  $\geq 100$  FEET DEEP

BENZENE  $\leq 0.2$  mg/kg, BTEX  $\leq 50$  mg/kg, GRO & DRO FRACTION (8015)  $\leq 500$  mg/kg, TPH (418.1)  $\leq 2500$  mg/kg, CHLORIDES  $\leq 1000$  mg/kg

☒ PERMANENT PIT OR BGT

BENZENE  $\leq 0.2$  mg/kg, BTEX  $\leq 50$  mg/kg, TPH (418.1)  $\leq 100$  mg/kg, CHLORIDES  $\leq 250$  mg/kg

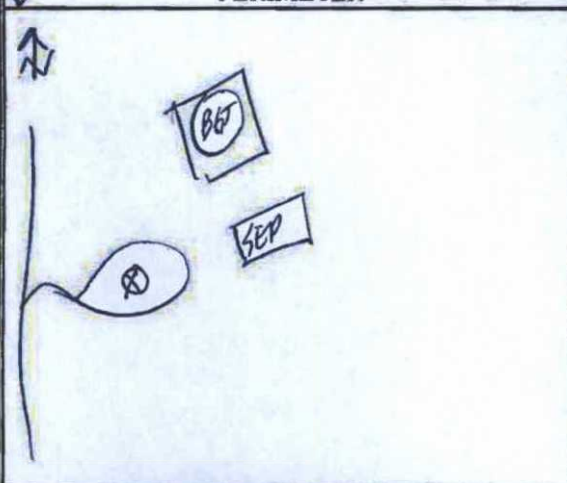
### FIELD 418.1 ANALYSIS

TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
11:00	500 STD		-	-	-	458	-
11:04	BGT Comp	1	5	20	4	715	300
		2					
		3					
		4					
		5					
		6					

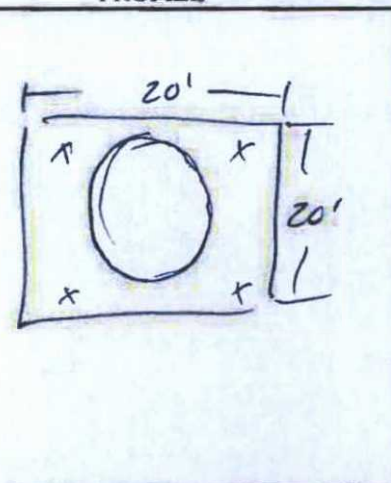
### PERIMETER

### FIELD CHLORIDES RESULTS

### PROFILE



SAMPLE ID	READING	CALC. (mg/kg)
CL STD	1.0	28
1	1.2	34



### PID RESULTS

SAMPLE ID	RESULTS (mg/kg)
1: BGT	20

### LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
1	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

### NOTES:

WORKORDER #

WHO ORDERED

Client: <div style="font-size: 1.5em; font-family: cursive;">ConocoPhillips</div>	 <b>envirotech</b> <small>(505) 632-0615 (800) 362-1879          5796 U.S. Hwy 64, Farmington, NM 87401</small>	Project No: <u>92115-1856</u> COC No: <u>12236</u>
--	---	---

## FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: <u>1</u> OF <u>1</u>
DATE STARTED: <u>7/22/11</u>
DATE FINISHED: <u>7/22/11</u>
ENVIRONMENTAL SPECIALIST: <u>C. Delgait</u>

LOCATION: NAME: <u>Douthett</u> WELL #: <u>3</u>
QUAD/UNIT: <u>P</u> SEC: <u>26</u> TWP: <u>21N</u> RNG: <u>11W</u> PM: <u>NM</u> CNTY: <u>S</u> ST: <u>NM</u>
QTR/FOOTAGE: <u>990 FEL 990 FSL</u> CONTRACTOR:

EXCAVATION APPROX: <u>N/A</u> FT. X <u>N/A</u> FT. X <u>N/A</u> FT. DEEP CUBIC YARDAGE: <u>N/A</u>
DISPOSAL FACILITY: <u>N/A</u> REMEDIATION METHOD: <u>N/A</u>
LAND USE: LEASE: <u>NMSE-078092</u> LAND OWNER:
CAUSE OF RELEASE: <u>BGT removal</u> MATERIAL RELEASED: <u>Produced water</u>
SPILL LOCATED APPROXIMATELY: <u>192</u> FT. <u>15°</u> FROM <u>WH</u>
DEPTH TO GROUNDWATER: <u>160'</u> NEAREST WATER SOURCE: <u>&gt;1600'</u> NEAREST SURFACE WATER: <u>502'</u>
NMOC D RANKING SCORE: <u>10</u> NMOC D TPH CLOSURE STD: <u>1000</u> PPM

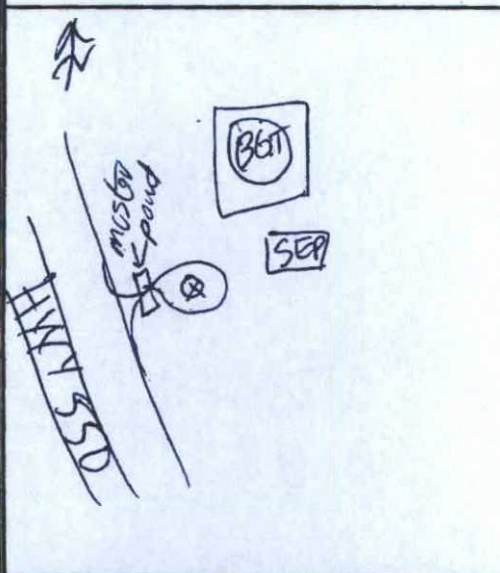
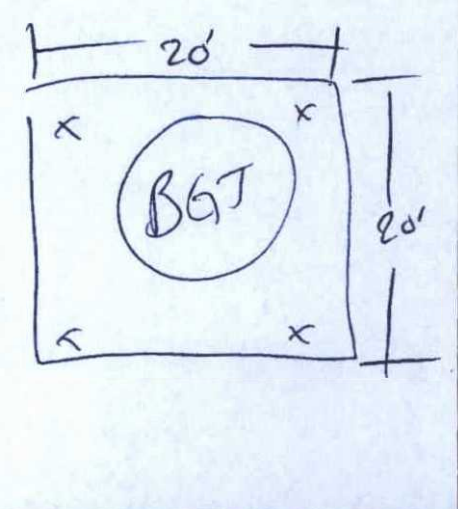
### SOIL AND EXCAVATION DESCRIPTION:

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>SDO STD</u>	<u>11:00</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>458</u>	<u>—</u>
<u>BGT Comp</u>	<u>11:04</u>	<u>1</u>		<u>5</u>	<u>70</u>	<u>4</u>	<u>75</u>	<u>300</u>

### SPILL PERIMETER

### OVM RESULTS

### SPILL PROFILE

	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%">SAMPLE ID</th> <th style="width:15%">FIELD HEADSPACE</th> <th style="width:15%">PID (ppm)</th> </tr> </thead> <tbody> <tr> <td><u>100 STD</u></td> <td></td> <td><u>100</u></td> </tr> <tr> <td><u>1</u></td> <td></td> <td><u>0.0</u></td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%">SAMPLE ID</th> <th style="width:15%">ANALYSIS</th> <th style="width:15%">TIME</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE	PID (ppm)	<u>100 STD</u>		<u>100</u>	<u>1</u>		<u>0.0</u>																												SAMPLE ID	ANALYSIS	TIME																									
SAMPLE ID	FIELD HEADSPACE	PID (ppm)																																																															
<u>100 STD</u>		<u>100</u>																																																															
<u>1</u>		<u>0.0</u>																																																															
SAMPLE ID	ANALYSIS	TIME																																																															

TRAVEL NOTES: _____	CALLED OUT: _____	ONSITE: _____
---------------------	-------------------	---------------



CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 22-Jul-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	458
	200	
	500	
	1000	

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

*Crystal Delgai*  
Analyst

7/29/2011  
Date

Crystal Delgai  
Print Name

*Toni McKnight*  
Review

7/29/2011  
Date

Toni McKnight EIT  
Print Name



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client: ConocoPhillips  
Sample No.: 1  
Sample ID: BGT Composit  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 92115-1856  
Date Reported: 8/2/2011  
Date Sampled: 7/22/2011  
Date Analyzed: 7/25/2011  
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	300	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: Douthit #3 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

B. Delgai for Crystal Delgai  
Analyst

Crystal Delgai  
Printed

Toni McKnight  
Review

Toni McKnight EIT  
Printed



## Field Chloride

Client: ConocoPhillips  
Sample No.: 1  
Sample ID: BGT Composite  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 92115-1856  
Date Reported: 8/2/2011  
Date Sampled: 7/22/2011  
Date Analyzed: 7/22/2011  
Analysis Needed: Chloride

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

Field Chloride

34

28.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992  
Hach Company Quantab Titrators for Chloride

Comments: Douthit #3 (hBr)

Analyst

Crystal Delgai

Printed

Review

Toni McKnight EIT

Printed



**EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	92115-1856
Sample ID:	BGT Composite	Date Reported:	07-25-11
Laboratory Number:	59043	Date Sampled:	07-22-11
Chain of Custody:	12236	Date Received:	07-22-11
Sample Matrix:	Soil	Date Analyzed:	07-25-11
Preservative:	Cool	Date Extracted:	07-25-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

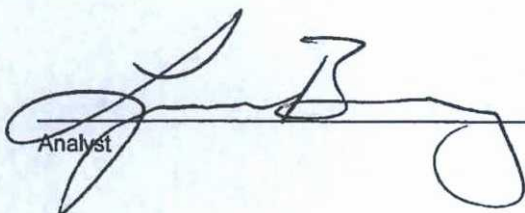
ND - Parameter not detected at the stated detection limit.

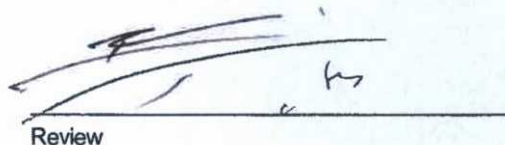
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	85.6 %
	1,4-difluorobenzene	87.1 %
	Bromochlorobenzene	87.1 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Douthit #3 (hBr)

  
Analyst

  
Review

**EPA METHOD 8021  
 AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	0725BBLK QA/QC	Date Reported:	07-25-11
Laboratory Number:	59043	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-25-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	3.1217E+006	3.1279E+006	0.2%	ND	0.1
Toluene	3.1338E+006	3.1400E+006	0.2%	ND	0.1
Ethylbenzene	2.7656E+006	2.7712E+006	0.2%	ND	0.1
p,m-Xylene	7.6705E+006	7.6859E+006	0.2%	ND	0.1
o-Xylene	2.5476E+006	2.5527E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	467	93.5%	39 - 150
Toluene	ND	500	455	91.0%	46 - 148
Ethylbenzene	ND	500	503	101%	32 - 160
p,m-Xylene	ND	1000	946	94.6%	46 - 148
o-Xylene	ND	500	462	92.4%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

**Comments:** QA/QC for Samples 59042-59043, 59052-59053

Analyst

Review



**envirotech**

Analytical Laboratory

**Chloride**

Client:	ConocoPhillips	Project #:	92115-1856
Sample ID:	BGT Composite	Date Reported:	07/25/11
Lab ID#:	59043	Date Sampled:	07/22/11
Sample Matrix:	Soil	Date Received:	07/22/11
Preservative:	Cool	Date Analyzed:	07/25/11
Condition:	Intact	Chain of Custody:	12236

**Parameter**

**Concentration (mg/Kg)**

**Total Chloride**

**ND**

**Reference:**

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

**Comments:**

**Douthit #3 (hBr)**

Analyst

Review

# CHAIN OF CUSTODY RECORD

12236 RUSH

Client: <b>Conoco Phillips</b>			Project Name / Location: <b>Douthit #3 (hBr)</b>			ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: <b>Crystal Delgari</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <b>92115-1856</b>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H <sub>2</sub> O <sub>2</sub> HCl													
BET composite	7/22/11	11:04	59043	Soil Solid	1-4oz													✓	✓
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
Relinquished by: (Signature) <i>Crystal Delgari</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
Relinquished by: (Signature)						Received by: (Signature)													
Relinquished by: (Signature)						Received by: (Signature)													

RUSH



**envirotech**  
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com

ACCREDITED BY: EPA 8160