

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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report

☒ Final Report

Name of Company	ConocoPhillips Company	Contact	Kelsi Harrington
Address	3401 E. 30th St., Farmington, NM 87402	Telephone No.	505-599-3403
Facility Name	Bruington 15E	Facility Type	Gas Well API#3004524140
Surface Owner	Private	Mineral Owner	Private
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	15	30N	11W	1650'	North	1740'	West	San Juan

Latitude **36.814998° N** Longitude **-107.981° W**

NATURE OF RELEASE

Type of Release – Unknown	Volume of Release – Unknown	Volume Recovered –
Source of Release: Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 12/16/2010
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour –	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.* **Below grade tank closure activities.**

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: <i>Kelsi Harrington</i>	OIL CONSERVATION DIVISION	
Printed Name: Kelsi Harrington	Approved by District Supervisor: <i>[Signature]</i>	
Title: Environmental Consultant	Approval Date: <i>5/4/11</i>	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached ☐
Date: 4/27/2011	Phone: 505-599-3403	

* Attach Additional Sheets If Necessary

nJK1122356474





February 3, 2011

Project Number 96052-1838

Ms. Kelsi Harrington
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87401

Phone: (505) 599-3403

**RE: BELOW GRADE TANK CLOSURE DOCUMENTATION FOR THE BRUINGTON #15E
WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Harrington:

Enclosed please find the field notes and analytical results for below grade tank (BGT) closure activities performed at the Bruington #15E well site located in Section 15, Township 30 North, Range 11 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on December 16, 2010, 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. The sample returned results above the regulatory standards for TPH and organic vapors, confirming a release had occurred. 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 TPH using USEPA Method 8015, for benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500.

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 1000 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. The sample returned results below the regulatory standards for all constituents analyzed; see attached *Analytical Results*. Envirotech, Inc. recommends no further action in regards to this incident.

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.


Barian Williamson
Senior Environmental Technician
bwilliamson@envirotech-inc.com

Enclosures: Analytical Results
Field Notes

Cc: Client File 96052

AGE NO: <u>1</u> OF <u>1</u> DATE STARTED: <u>12-16-10</u> DATE FINISHED: <u>12-16-10</u>	ENVIROTECH INC ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 - 3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	ENVIRONMENTAL SPECIALIST: <u>BWW</u> LAT: <u>36.814880</u> LONG: <u>-107.981617</u>
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FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION:	NAME: <u>Brevinham</u>	WELL #: <u>15E</u>	TEMP PIT:	PERMANENT PIT:	BGT: <u>X</u>
LEGAL ADD:	UNIT:	SEC: <u>15</u>	TWP: <u>30N</u>	RNG: <u>11W</u>	PM:
TR/FOOTAGE:		CNTY: <u>SJ</u>		ST: <u>NM</u>	

XCAVATION APPROX:	<u>15</u>	FT.	X	<u>15</u>	FT.	X	<u>4</u>	FT. DEEP	CUBIC YARDAGE:
ISPOSAL FACILITY:	<u>N/A</u>		REMEDICATION METHOD:		<u>N/A</u>				
AND OWNER:			API: <u>3004524140</u>		BGT / PIT VOLUME: <u>120 BBL</u>				
CONSTRUCTION MATERIAL:	<u>Steel</u>		DOUBLE-WALLED, WITH LEAK DETECTION: <u>Single wall / single bottom</u>						

LOCATION APPROXIMATELY:	FT.	FROM WELLHEAD
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DEPTH TO GROUNDWATER: <u>189 Feet</u>

- ☐ TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP
 BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg
- ☐ TEMPORARY PIT - GROUNDWATER ≥ 100 FEET DEEP
 BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg
- ☒ PERMANENT PIT OR BGT
 BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

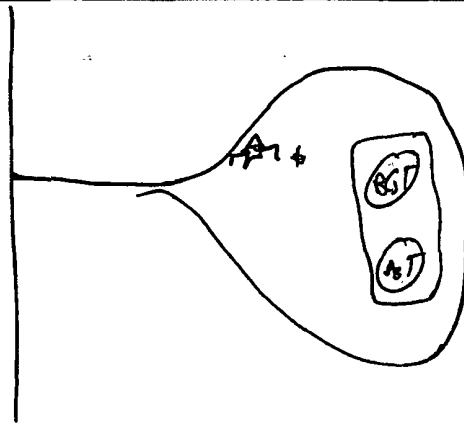
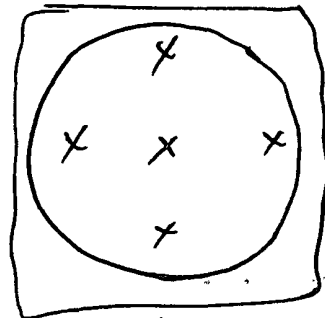
FIELD 418.1 ANALYSIS

TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
11:00	200 STD					200	
11:02	①	1	5	20	4	84	336
		2					
		3					
		4					
		5					
		6					

PERIMETER

FIELD CHLORIDES RESULTS

PROFILE

	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>READING</th> <th>CALC. (mg/kg)</th> </tr> <tr> <td>①</td> <td>2.8</td> <td>90</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> </table>	SAMPLE ID	READING	CALC. (mg/kg)	①	2.8	90																												 PID RESULTS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>RESULTS (mg/kg)</th> </tr> <tr> <td>①</td> <td>110.1</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> BGT Pit 5pt Collected for lab	SAMPLE ID	RESULTS (mg/kg)	①	110.1														
SAMPLE ID	READING	CALC. (mg/kg)																																																			
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LAB SAMPLES <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>RESULTS</th> </tr> <tr><td> </td><td>BENZENE</td><td> </td></tr> <tr><td> </td><td>BTEX</td><td> </td></tr> <tr><td> </td><td>GRO & DRO</td><td> </td></tr> <tr><td> </td><td>CHLORIDES</td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	SAMPLE ID	ANALYSIS	RESULTS		BENZENE			BTEX			GRO & DRO			CHLORIDES								NOTES: <u>arrived @ 9:45</u> <u>BGT coord - 36.814880</u> <u>-107.981617</u> WORKORDER # _____ WHO ORDERED _____
SAMPLE ID	ANALYSIS	RESULTS																				
	BENZENE																					
	BTEX																					
	GRO & DRO																					
	CHLORIDES																					



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-1838
Sample No.:	1	Date Reported:	12/23/2010
Sample ID:	BGT Sample	Date Sampled:	12/16/2010
Sample Matrix:	Soil	Date Analyzed:	12/16/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

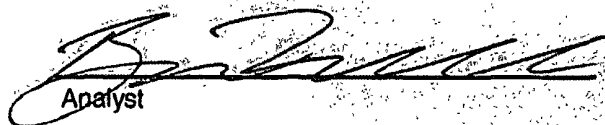
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	336	5.0

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: Bruington #15E

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson, FT
Printed


Review

Toni McKnight, EIT
Printed

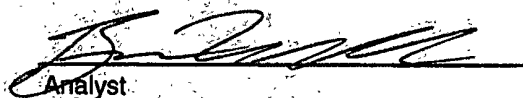


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 16-Dec-10

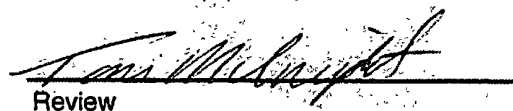
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	200
	500	
	1000	

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


Analyst

Barian Williamson, FT

Print Name


Review

Toni McKnight, EIT

Print Name

12/23/2010
Date

12/23/2010
Date



Field Chloride

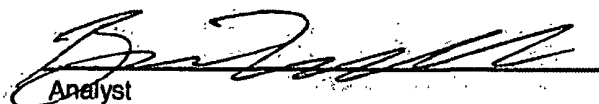
Client:	ConocoPhillips	Project #:	96052-1838
Sample No.:	1	Date Reported:	12/23/2010
Sample ID:	BGT Sample	Date Sampled:	12/16/2010
Sample Matrix:	Soil	Date Analyzed:	12/16/2010
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	90	33.0

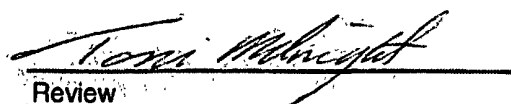
ND = Parameter not detected at the stated detection limit.

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

Comments: Bruington #15E


Analyst

Barian Williamson, FT
Printed


Review

Toni McKnight, EIT
Printed

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	ConocoPhillips	Project #:	96052-1838
Sample ID:	BGT Composite	Date Reported:	12-17-10
Laboratory Number:	56803	Date Sampled:	12-16-10
Chain of Custody No:	10929	Date Received:	12-16-10
Sample Matrix:	Soil	Date Extracted:	12-16-10
Preservative:	Cool	Date Analyzed:	12-17-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	81.3	0.2
Diesel Range (C10 - C28)	0.5	0.1
Total Petroleum Hydrocarbons	81.8	

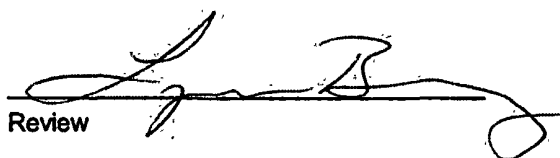
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Bruington 15E**



Analyst



Review

**EPA Method 8015 Modified
 Nonhalogenated Volatile Organics
 Total Petroleum Hydrocarbons**

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-17-10 QA/QC	Date Reported:	12-17-10
Laboratory Number:	56798	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-17-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	12-17-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	12-17-10	1.0006E+003	1.0010E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	253	101%	75 - 125%
Diesel Range C10 - C28	ND	250	258	103%	75 - 125%

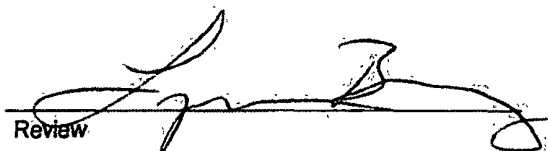
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 56798-56799, 56803, 56805-56806, 56815



Analyst



Review



envirotech

Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1838
Sample ID:	BGT Composite	Date Reported:	12-17-10
Laboratory Number:	56803	Date Sampled:	12-16-10
Chain of Custody:	10929	Date Received:	12-16-10
Sample Matrix:	Soil	Date Analyzed:	12-17-10
Preservative:	Cool	Date Extracted:	12-16-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	21.8	0.9
Toluene	390	1.0
Ethylbenzene	102	1.0
p,m-Xylene	1,380	1.2
o-Xylene	130	0.9
Total BTEX	2,020	

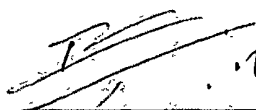
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.1 %
	1,4-difluorobenzene	97.9 %
	Bromochlorobenzene	99.2 %

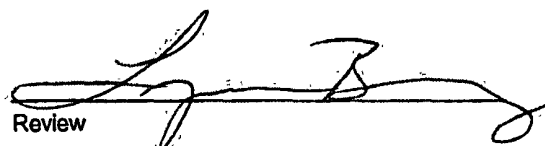
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Bruington 15E



Analyst



Review

Client:	N/A	Project #:	N/A
Sample ID:	1217BBLK QA/QC	Date Reported:	12-17-10
Laboratory Number:	56799	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-17-10
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	3.7796E+006	3.7871E+006	0.2%	ND	0.1
Toluene	1.1096E+006	1.1119E+006	0.2%	ND	0.1
Ethylbenzene	8.1544E+005	8.1708E+005	0.2%	ND	0.1
p,m-Xylene	1.7497E+006	1.7532E+006	0.2%	ND	0.1
o-Xylene	6.3272E+005	6.3399E+005	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	505	101%	39 - 150
Toluene	ND	500	536	107%	46 - 148
Ethylbenzene	ND	500	516	103%	32 - 160
p,m-Xylene	ND	1000	995	99.5%	46 - 148
o-Xylene	ND	500	492	98.3%	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 Photolization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 56798-56799, 56803, 56805-56806, 56798, 56815, 56778-56783

Analyst

Review

Client:	ConocoPhillips	Project #:	96052-1838
Sample ID:	BGT Composite	Date Reported:	12-17-10
Lab ID#:	56803	Date Sampled:	12-16-10
Sample Matrix:	Soil	Date Received:	12-16-10
Preservative:	Cool	Date Analyzed:	12-17-10
Condition:	Intact	Chain of Custody:	10929

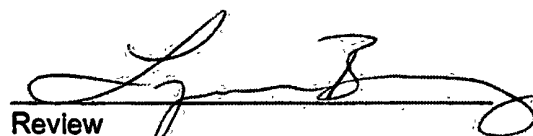
Parameter	Concentration (mg/Kg)
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Total Chloride**45**

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: **Bruington 15E**

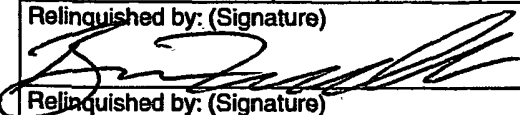
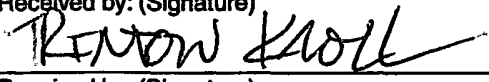


Analyst

Review

CHAIN OF CUSTODY RECORD

KVXT 10929

Client: COPC			Project Name / Location: Brvington 15E			ANALYSIS / PARAMETERS																
Client Address:			Sampler Name: BARIAN WILLIAMSON			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.: 96052-1838																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative			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
BGT Composite	12/14/10	11:02	56803	Soil Solid	Sludge Aqueous	1-402				X	X							X			Y	Y
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
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				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
Relinquished by: (Signature) 				Date	Time	Received by: (Signature) 				Date	Time											
Relinquished by: (Signature)				12/16/10	13:54	Received by: (Signature)				12/16/10	13:54											
Relinquished by: (Signature)						Received by: (Signature)																

RUSH



envirotech
Analytical Laboratory

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