

District I
1525 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 Burlington Resources, A Wholly Owned Subsidiary of ConocoPhillips Company	Contact Kelsi Harrington
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-599-3403
Facility Name San Juan 10	Facility Type Gas Well API #3004509612
Surface Owner Federal	Mineral Owner Federal Lease No. NMNM-03202

LOCATION OF RELEASE

Unit Letter M	Section 10	Township 30N	Range 10W	Feet from the 760'	North/South Line South	Feet from the 1050'	East/West Line West	County San Juan
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Latitude 36.82167° N Longitude -107.87643° W

NATURE OF RELEASE

Type of Release – Unknown	Volume of Release – Unknown	Volume Recovered –
Source of Release: Above Ground Storage Tank	Date and Hour of Occurrence	Date and Hour of Discovery 10/26/2010
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.*		

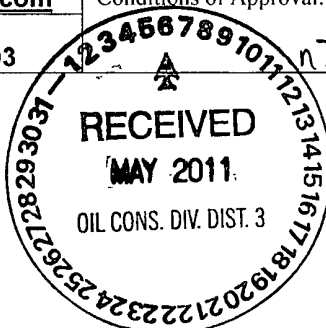
Describe Cause of Problem and Remedial Action Taken.* **Historic staining was observed during replacement of the manway gasket on the above ground storage tank. Upon discovery, a spill assessment was completed.**

Describe Area Affected and Cleanup Action Taken.* **Excavation and confirmation sampling occurred. The area was excavated to extents of approximately 58 feet by 48 feet by 12 to 24 feet deep. The bottom of the excavation sloped down from the east wall toward the west wall due to encountering sandstone. Analytical results for the walls were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; however the bottom on sandstone returned results above the regulatory standards for total petroleum hydrocarbons. As maximum extent was reached due to sandstone being encountered, and with the approval of Aztec NMCOD & BLM, the excavation was backfilled; 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>Bob Bell</i>	
Title: Environmental Consultant	Approval Date: 5/6/11	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1/25/11 Phone: 505-599-3403	<i>nJK1122143137</i>	

* Attach Additional Sheets If Necessary





January 13, 2011

Project No. 92115-1476

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

Phone: (505) 599-3403
Fax: (505) 599-4005

RE: SPILL ASSESSMENT AND CONFIRMATION SAMPLING DOCUMENTATION FOR THE SAN JUAN #10 (hBr) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for spill assessment activities performed at the San Juan #10 (hBr) well site located in Section 10, Township 30 North, Range 10 West, San Juan County, New Mexico. Envirotech, Inc. personnel arrived on site on October 25, 2010 to delineate the affected area.

Upon Envirotech's arrival, a brief site assessment was conducted. Because distance to surface water was less than 200 feet from the well site, the regulatory standard for the site was 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 leak was from an above-ground storage tank's drain valve. One (1) composite sample was collected from the surface of the stained area around the valve, one (1) composite sample was collected from seven (7) feet below ground surface (BGS) from the impacted area immediately beneath the tank's drain valve and one (1) four (4) point composite sample was collected from the surface of the non visually contaminated soil surrounding the stained area; see attached *Site Map*. Both surface samples collected from inside and outside the visually stained area were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The sample collected from outside the stained area returned results below the regulatory limits for all constituents analyzed; see attached *Field Notes*. The sample collected from the surface of the stained area around the tank's drain valve returned results below the regulatory standard for organic vapors but above the 100 ppm TPH regulatory standard. Additionally, the sample collected from seven (7) feet BGS under the drain valve 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 and for benzene and BTEX using USEPA Method 8021. The sample returned results above the regulatory standards for TPH but below the regulatory standard for organic vapors; see attached *Analytical Results*. Envirotech, Inc. personnel determined the volume of soil impacted was approximately 20 feet by 20 feet around the above-ground storage tank (AST) and greater than seven (7) feet deep; see attached *Site Map*. Envirotech, Inc. recommended excavating the spill area and performing confirmation sampling.

Envirotech, Inc. personnel returned to the site on December 21, 2010, to perform confirmation sampling activities. Prior Envirotech's arrival, the affected area had been excavated to extents of approximately 58 feet by 48 feet by 12 to 24 feet deep. The bottom of the excavation sloped down from the east wall toward the west wall due to the encountered sandstone; see attached *Field Notes*. Five (5) composite samples were collected from each of the north wall, south wall, east wall, west wall and bottom of the excavation. The samples were analyzed on the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. Samples collected from the walls of the excavation returned results below the regulatory standards for all constituents analyzed; see attached *Field Notes* and *Analytical Results*. In addition, two (2) samples were collected from the bottom and the north wall of the excavation and were placed into a four (4)-ounce glass jars, 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. Additionally, the sample collected from the bottom of the excavation was also analyzed in Envirotech's Analytical Laboratory for benzene and BTEX using USEPA Method 8021. The sample collected from the bottom of the excavation returned results above the regulatory standards for all constituents analyzed; see attached *Field Notes* and *Analytical Results*. Approval was given to backfill from both Mr. Brandon Powell, with the NMOCD, and Ms. Shelly Landon with the Bureau of Land Management (BLM). Maximum reasonable extent was reached due to sandstone being encountered; Envirotech, Inc. recommends no further action in regards to this incident.

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

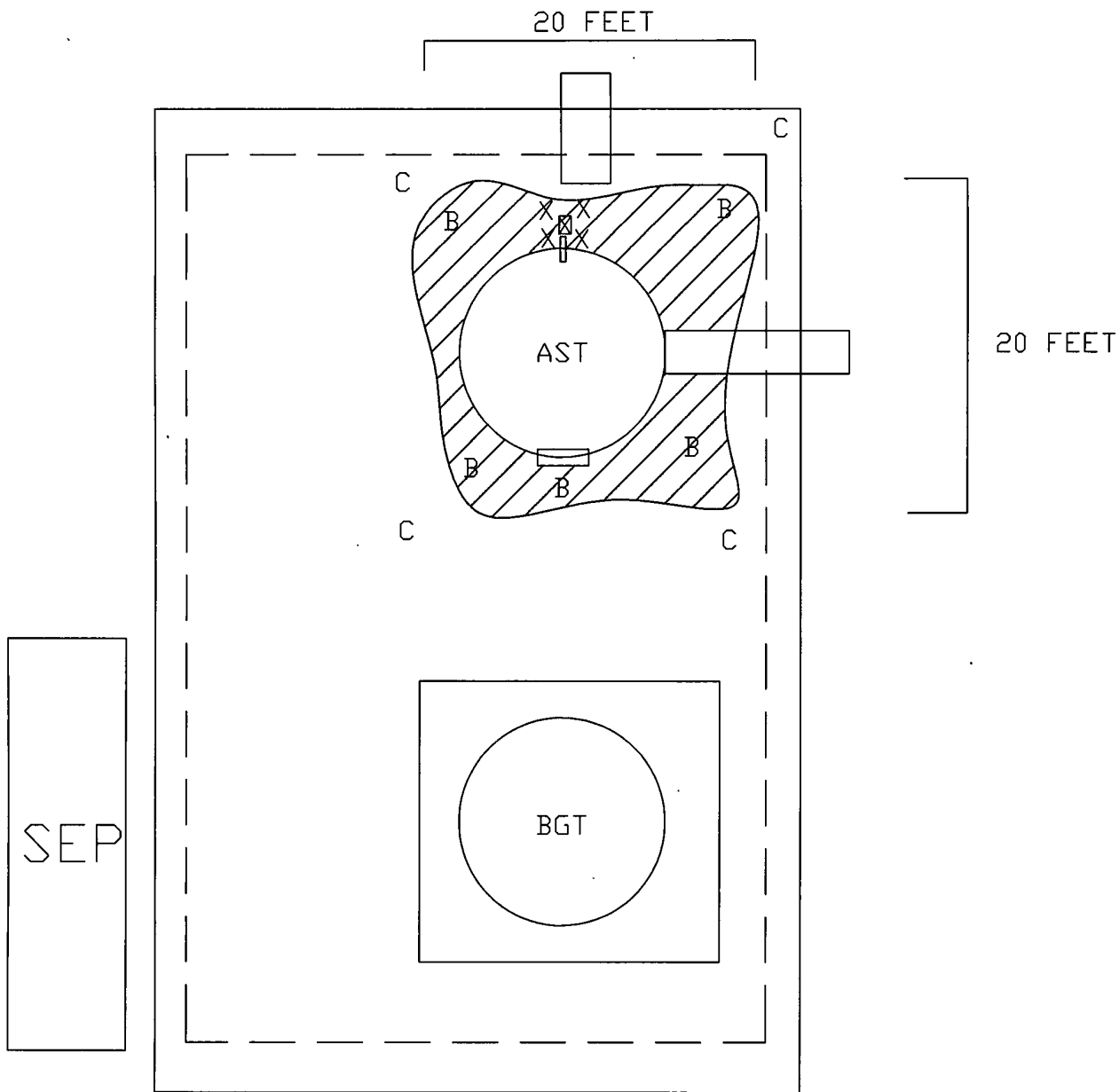
Respectfully Submitted,
ENVIROTECH, INC.



Rene Garcia Reyes
Senior Environmental Field Technician
rgarcia@envirotech-inc.com

Enclosure(s): Analytical Results
Field Notes
Site Map

Cc: Client File 92115



APPROXIMATE AREA OF CONTAMINATION

X - SURFACE COMPOSITE SAMPLE - 944 PPM TPH

□ - 7 FEET DEEP SAMPLE - COLLECTED FOR LAB ANALYSIS

C - CLEAN SAMPLE COMPOSITE - 60 PPM TPH - 0.0 ORGANIC VAPOR

B - AUGER HIT BLACK SOIL WITHIN 1 FOOT DEEP

SITE MAP CONOCO PHILLIPS

SAN JUAN #10

SECTION 10 TOWNSHIP 30N RANGE 10W
SPILL ASSESSMENT

SCALE: NTS

PROJECT NO92115-1476

FIGURE NO. 1

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	BWW	10-26-10	BASE DRWN



envirotech

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

nt: *Conoco Phillips*



Location No: *92115-1476*

C.O.C. No:

ELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: *1* OF *1*

ATION: NAME: *San Juan* WELL #: *#10*
AD/UNIT: *M* SEC: *10* TWP: *30N* RNG: *10W* PM: CNTY: *SJ* ST: *NM*
FOOTAGE: CONTRACTOR: *N/A*

DATE STARTED: *10-25-10*

DATE FINISHED: *10-25-10*

ENVIRONMENTAL

SPECIALIST: *B.W.W*

AVATION APPROX: *N/A* FT. X FT. X FT. DEEP CUBIC YARDAGE:

POSAL FACILITY:

REMEDICATION METHOD: *Removal*

ID USE: *Grazing*

LEASE: *3004509612*

LAND OWNER: *Federal*

USE OF RELEASE: *Leaking drain valve*

MATERIAL RELEASED: *Condensate*

EL LOCATED APPROXIMATELY: FT. FROM

TH TO GROUNDWATER: *165'* NEAREST WATER SOURCE: *>1000'* NEAREST SURFACE WATER: *<100'*

DOD RANKING SCORE: *20*

NMOC D TPH CLOSURE STD: *100*

PPM

AND EXCAVATION DESCRIPTION:

*collected 1 5-pt Composite from under drain valve
served down to 7' Black soil (OVR) or to at least 7' observed under tank black soil
resent, delineated spill. Spoke with Kelsi Newington and she requested 7' sample
and surface sample collected 7' -> 8015 8021, surface (T80)*

AMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<i>180 STD</i>	<i>10:09</i>	<i>STD</i>					<i>191</i>	
<i>1st under valve</i>	<i>10:20</i>	<i>(1)</i>		<i>5</i>	<i>20</i>	<i>4</i>	<i>236</i>	<i>944</i>
<i>5th/6th clean</i>	<i>10:11:18</i>	<i>(2)</i>		<i>5</i>	<i>20</i>	<i>4</i>	<i>15</i>	<i>60</i>

SPILL PERIMETER

OVM RESULTS

SPILL PROFILE

RESULTS		
SAMPLE ID	FIELD HEADSPACE PID (ppm)	
(1)	1.1	
2' BGS	OVR	
(2)	0.0	

VEL NOTES: CALLED OUT: ONSITE: @ *9:45* Left site @ *11:45*



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Conoco Phillips Project #: 92115-1476
Sample No.: 1 Date Reported: 1/6/2011
Sample ID: Under Drain Valve Composite Date Sampled: 10/25/2010
Sample Matrix: Soil Date Analyzed: 10/25/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	944	5.0

ND = Parameter not detected at the stated detection limit.

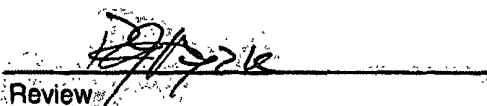
References: Method 418.1, Petroleum Hydrocarbons; Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: San Juan #10

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson, FT
Printed


Review

Rene Garcia Reyes, FT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Conoco Phillips
Sample No.: 2
Sample ID: Clean Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1476
Date Reported: 1/6/2011
Date Sampled: 10/25/2010
Date Analyzed: 10/25/2010
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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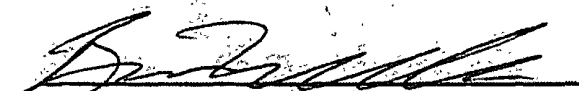
Total Petroleum Hydrocarbons	60	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: San Juan #10

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson, FT
Printed


Review

Rene Garcia Reyes, FT
Printed

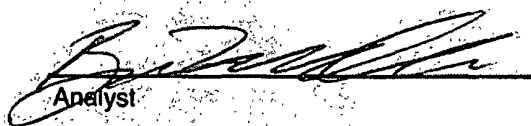


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 25-Oct-10

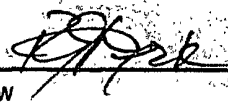
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	191
	180	
	500	
	1000	

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


Analyst

1/6/2011
Date

Barian Williamson, FT
Print Name


Review

1/6/2011
Date

Rene Garcia Reyes, FT
Print Name



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Analytical Laboratory

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


Client:	ConocoPhillips	Project #:	92115-1476
Sample ID:	7' BGS	Date Reported:	10-26-10
Laboratory Number:	56298	Date Sampled:	10-25-10
Chain of Custody No:	10610	Date Received:	10-26-10
Sample Matrix:	Soil	Date Extracted:	10-26-10
Preservative:	Cool	Date Analyzed:	10-26-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	524	0.2
Diesel Range (C10 - C28)	47.6	0.1
Total Petroleum Hydrocarbons	572	

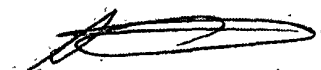
ND - Parameter not detected at the stated detection limit.

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

Comments: **San Juan #10**



Analyst



Review



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Analytical Laboratory

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-26-10 QA/QC	Date Reported:	10-26-10
Laboratory Number:	56291	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-26-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	10-26-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	10-26-10	9.9960E+002	1.0000E+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	154	154	0.0%	0 - 30%
Diesel Range C10 - C28	5,300	5,290	0.2%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	154	250	416	103%	75 - 125%
Diesel Range C10 - C28	5,300	250	5,510	99.3%	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 56291, 56295-56302


Analyst


Review



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Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-1476
Sample ID:	7' BGS	Date Reported:	10-26-10
Laboratory Number:	56298	Date Sampled:	10-25-10
Chain of Custody:	10610	Date Received:	10-26-10
Sample Matrix:	Soil	Date Analyzed:	10-26-10
Preservative:	Cool	Date Extracted:	10-26-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	228	0.9
Toluene	479	1.0
Ethylbenzene	1,620	1.0
p,m-Xylene	16,000	1.2
o-Xylene	398	0.9
Total BTEX	18,700	


ND - Parameter not detected at the stated detection limit.

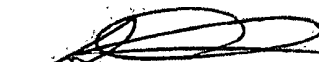
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	93.6 %
	Bromochlorobenzene	92.9 %

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: San Juan #10



Analyst

Review



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Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	1026BBLK QA/QC	Date Reported:	10-26-10
Laboratory Number:	56291	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-26-10
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	5.3347E+005	5.3454E+005	0.2%	ND	0.1
Toluene	6.0597E+005	6.0719E+005	0.2%	ND	0.1
Ethylbenzene	5.4740E+005	5.4850E+005	0.2%	ND	0.1
p,m-Xylene	1.3052E+006	1.3078E+006	0.2%	ND	0.1
o-Xylene	4.9582E+005	4.9682E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	3.2	3.3	3.1%	0 - 30%	0.9
Toluene	52.9	53.6	1.3%	0 - 30%	1.0
Ethylbenzene	101	98.5	2.1%	0 - 30%	1.0
p,m-Xylene	129	129	0.0%	0 - 30%	1.2
o-Xylene	26.8	26.5	1.1%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	3.2	500	510	101%	39 - 150
Toluene	52.9	500	557	101%	46 - 148
Ethylbenzene	101	500	608	101%	32 - 160
p,m-Xylene	129	1000	1,130	100%	46 - 148
o-Xylene	26.8	500	526	100%	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 56291-56293, 56295-56296, 56298-56302

Analyst

Review

CHAIN OF CUSTODY RECORD Kush 10610

Client: Conao Phillips			Project Name / Location: San Juan # 10				ANALYSIS / PARAMETERS																		
Client Address:			Sampler Name: BARIAN WILLIAMSON																						
Client Phone No.:			Client No.: 92115-1476																						
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	
7' BGS	10/25/10	11:28	56298	Soil Solid	Sludge Aqueous	1-4oz			X	X	X													✓	✓
Surface Composite	10/25/10	10:20		Soil Solid	Sludge Aqueous	1-4oz			X																
				Soil Solid	Sludge Aqueous																				
				Soil Solid	Sludge Aqueous																				
				Soil Solid	Sludge Aqueous																				
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				Soil Solid	Sludge Aqueous																				
Relinquished by: (Signature) 				Date	10/26/10	Time	6:55	Received by: (Signature) 										Date	10/26/10	Time	6:55				
Relinquished by: (Signature)								Received by: (Signature)																	
Relinquished by: (Signature)								Received by: (Signature)																	

Rush



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Analytical Laboratory

Client: CORCLocation No: 3004S05612
36.82158404
COC No: -107.876867118

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 2 OF 2LOCATION: NAME: Sandwich WELL #: 10
QUAD/UNIT: SEC: 10 TWP: 30N RNG: 16W PM: NH CNTY: ST. NM
OIR/FOOTAGE: 1050 W & 760' S CONTRACTOR: M&MDATE STARTED: 12/21/10

DATE FINISHED:

ENVIRONMENTAL

SPECIALIST: RoweEXCAVATION APPROX: 48 FT. X 58 FT. X 12-24 FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: REMEDIATION METHOD:

LAND USE: LEASE: LAND OWNER: Federal

CAUSE OF RELEASE: MATERIAL RELEASED:

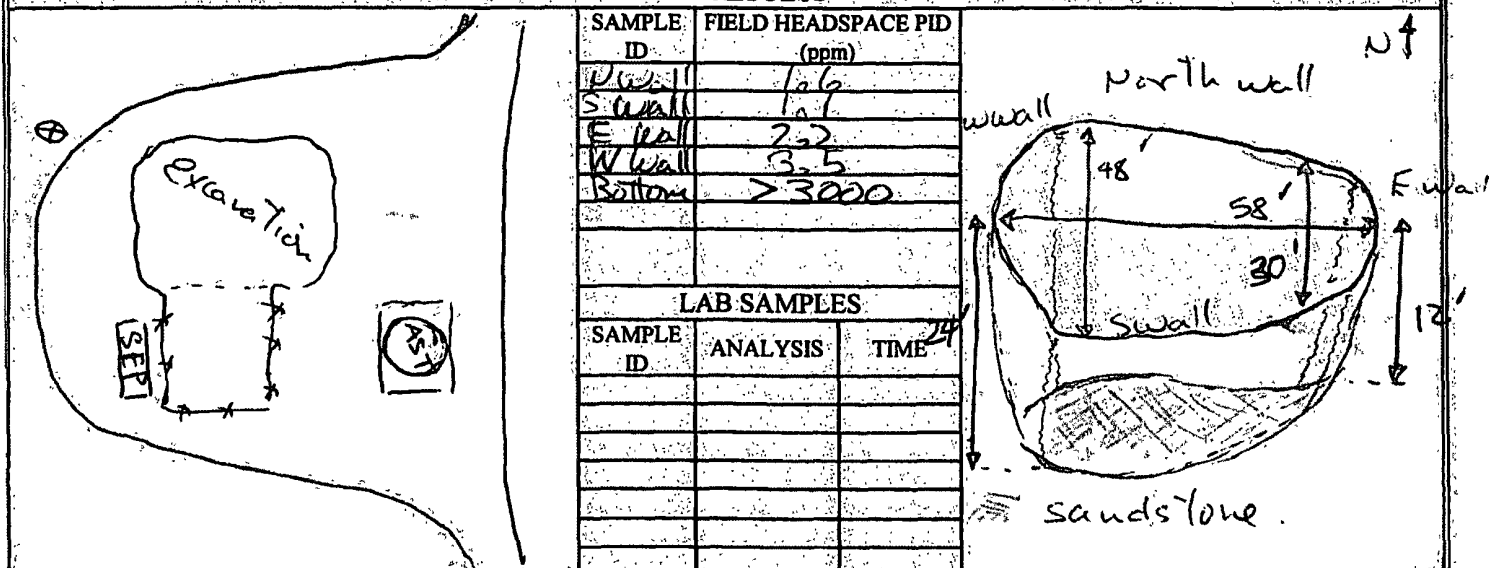
SPILL LOCATED APPROXIMATELY: 20 FT. FROM: WellheadDEPTH TO GROUNDWATER: NEAREST WATER SOURCE: NEAREST SURFACE WATER: <200'NMOCD RANKING SCORE: 30 NMOCD TPH CLOSURE STD: 100 PPMSOIL AND EXCAVATION DESCRIPTION: OVClosure std = 100 PPM

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>746 ppm</u>	<u>14:00</u>	<u>200 STD</u>					<u>246</u>	
<u>Spl camp</u>	<u>14:40</u>	<u>N wall</u>		<u>5</u>	<u>20</u>	<u>x4</u>	<u>23</u>	<u>92</u>
	<u>14:43</u>	<u>S wall</u>					<u>19</u>	<u>76</u>
	<u>14:46</u>	<u>E wall</u>					<u>19</u>	<u>76</u>
	<u>14:48</u>	<u>W wall</u>					<u>20</u>	<u>80</u>
<u>on sandstone</u>	<u>14:51</u>	<u>Bottom</u>		<u>2</u>	<u>2</u>	<u>2</u>	<u>647</u>	<u>2788</u>

SPILL PERIMETER

OVM
RESULTS

SPILL PROFILE



TRAVEL NOTES:

CALLED OUT:

ONSITE:

55816 (12:30)
cc or s for me



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Conoco Phillips
Sample No.: 3
Sample ID: North Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1476
Date Reported: 1/6/2011
Date Sampled: 12/21/2010
Date Analyzed: 12/21/2010
Analysis Needed: TPH-418.1

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

Total Petroleum Hydrocarbons	92	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: San Juan #10

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes, FT

Printed

Review

Barian Williamson, FT

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Conoco Phillips
Sample No.: 4
Sample ID: South Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1476
Date Reported: 1/6/2011
Date Sampled: 12/21/2010
Date Analyzed: 12/21/2010
Analysis Needed: TPH-418.1

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

Total Petroleum Hydrocarbons

76

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: **San Juan #10**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes, FT

Printed

Review

Barian Williamson, FT

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Conoco Phillips
Sample No.: 5
Sample ID: East Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1476
Date Reported: 1/6/2011
Date Sampled: 12/21/2010
Date Analyzed: 12/21/2010
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	76	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: San Juan #10

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes, FT
Printed

Review

Barian Williamson, FT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Conoco Phillips
Sample No.: 6
Sample ID: West Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1476
Date Reported: 1/6/2011
Date Sampled: 12/21/2010
Date Analyzed: 12/21/2010
Analysis Needed: TPH-418.1

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

Total Petroleum Hydrocarbons	80	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: San Juan #10

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes, FT

Printed

Review

Barian Williamson, FT

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Conoco Phillips
Sample No.: 127
Sample ID: Bottom
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1476
Date Reported: 1/6/2011
Date Sampled: 12/21/2010
Date Analyzed: 12/21/2010
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	2,790	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: San Juan #10

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes, FT
Printed

Review

Barian Williamson, FT
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 21-Dec-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	246	246
	500	
	1000	

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

Analyst

1/6/2011

Date

Rene Garcia Reyes, FT

Print Name

Review

1/6/2011

Date

Barian Williamson, FT

Print Name



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

Client:	ConocoPhillips	Project #:	92115-1476
Sample ID:	N Wall	Date Reported:	12-22-10
Laboratory Number:	56882	Date Sampled:	12-21-10
Chain of Custody No:	10963	Date Received:	12-21-10
Sample Matrix:	Soil	Date Extracted:	12-21-10
Preservative:	Cool	Date Analyzed:	12-22-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.4	

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: **San Juan #10/Confirmation Sampling**


Analyst


Review

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

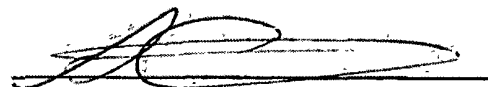
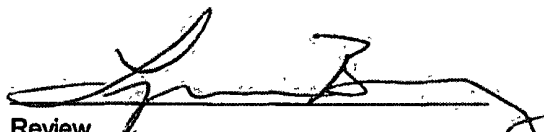
Client:	ConocoPhillips	Project #:	92115-1476
Sample ID:	Bottom	Date Reported:	12-22-10
Laboratory Number:	56883	Date Sampled:	12-21-10
Chain of Custody No:	10963	Date Received:	12-21-10
Sample Matrix:	Soil	Date Extracted:	12-21-10
Preservative:	Cool	Date Analyzed:	12-22-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	916	0.2
Diesel Range (C10 - C28)	200	0.1
Total Petroleum Hydrocarbons	1,120	

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: **San Juan #10/Confirmation Sampling**


Analyst
Review



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EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-22-10 QA/QC	Date Reported:	12-22-10
Laboratory Number:	56877	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-22-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	12-22-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	12-22-10	9.9960E+002	1.0000E+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

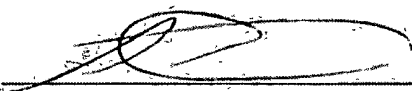
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	41.0	40.5	1.2%	0 - 30%
Diesel Range C10 - C28	2.7	2.5	7.4%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	41.0	250	293	101%	75 - 125%
Diesel Range C10 - C28	2.7	250	258	102%	75 - 125%

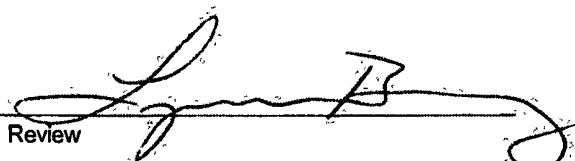
ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 56877-56886



Analyst



Review



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-1476
Sample ID:	Bottom	Date Reported:	12-22-10
Laboratory Number:	56883	Date Sampled:	12-21-10
Chain of Custody:	10963	Date Received:	12-21-10
Sample Matrix:	Soil	Date Analyzed:	12-22-10
Preservative:	Cool	Date Extracted:	12-21-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	331	0.9
Toluene	730	1.0
Ethylbenzene	1,220	1.0
p,m-Xylene	12,700	1.2
o-Xylene	181	0.9
Total BTEX	15,200	

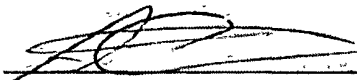
ND - Parameter not detected at the stated detection limit.

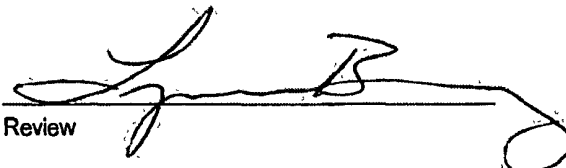
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.2 %
	1,4-difluorobenzene	101 %
	Bromochlorobenzene	97.5 %

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: San Juan #10/Confirmation Sampling


Analyst


Review



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	1222BBLK QA/QC	Date Reported:	12-22-10
Laboratory Number:	56877	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-22-10
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	1.3546E+005	1.3573E+005	0.2%	ND	0.1
Toluene	1.4276E+005	1.4305E+005	0.2%	ND	0.1
Ethylbenzene	1.3146E+005	1.3172E+005	0.2%	ND	0.1
p,m-Xylene	3.0322E+005	3.0382E+005	0.2%	ND	0.1
o-Xylene	1.2931E+005	1.2957E+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	1.4	1.2	14.3%	0 - 30%	1.0
p,m-Xylene	10.8	11.1	2.8%	0 - 30%	1.2
o-Xylene	3.9	4.4	12.8%	0 - 30%	0.9

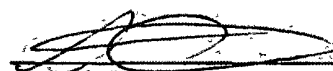
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	507	101%	39 - 150
Toluene	ND	500	507	101%	46 - 148
Ethylbenzene	1.4	500	511	102%	32 - 160
p,m-Xylene	10.8	1000	1,020	101%	46 - 148
o-Xylene	3.9	500	494	98.0%	46 - 148

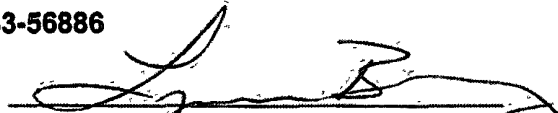
ND - Parameter not detected at the stated detection limit.

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 56877-56881, 56883-56886


Analyst


Review

CHAIN OF CUSTODY RECORD

10963

Client: COPC			Project Name / Location: San Juan #10/Confirm Sampling			ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: Crystal Delgado/Rene G.																
Client Phone No.:			Client No.: 96052-1869 9215-1471																
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	
N Wall	12/1/10	15:00	50882	Soil Solid	Sludge Aqueous	4 oz	X	X										X	X
Bottom	12/1/10	15:00	50883	Soil Solid	Sludge Aqueous	4 oz	X	X	X									X	X
				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)				Date		Time		Received by: (Signature)								Date		Time	
<i>Crystal Delgado</i>				12/1/10		15:47		<i>Brandy J. Hume</i>								12/1/10		1547	
Relinquished by: (Signature)								Received by: (Signature)											
Relinquished by: (Signature)								Received by: (Signature)											

RUSH



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