

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

19

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

30-045-29724

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company ConocoPhillips Company	Contact Shelly Cook-Cowden
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-324-5140
Facility Name Douthit #4R	Facility Type: Gas Well API#3004529724

Surface Owner: Federal	Mineral Owner: Federal	Lease No. NMSF - 078092
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LOCATION OF RELEASE

Unit Letter B	Section 26	Township 027N	Range 011W	Feet from the 790'	North/South Line North	Feet from the 1850'	East/West Line East	County San Juan
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Latitude 36.55111° N Longitude -107.97006° 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 - September 19, 2011
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>Shelly Cook-Cowden</i>		OIL CONSERVATION DIVISION	
Printed Name Shelly Cook-Cowden		Approved by District Supervisor <i>Bob Fall</i>	
Title Field Environmental Specialist		Approval Date. 10/26/11	Expiration Date.
E-mail Address Shelly.g Cook-Cowden@ConocoPhillips.com		Conditions of Approval	Attached ☐
Date October 21, 2011 Phone 505-324-5140			

* Attach Additional Sheets If Necessary

NJK1129955294

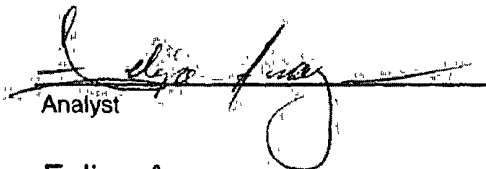


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 19-Sep-11

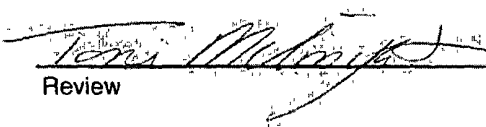
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	191
	500	
	1000	

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


Analyst

Felipe Aragon

Print Name


Review

Toni McKnight, EIT

Print Name

9/26/2011

Date

9/26/2011

Date



October 13, 2011

Project Number 92115-1958

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

Phone: (505) 599-3403

RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE DOUTHIT #4R (hBr) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

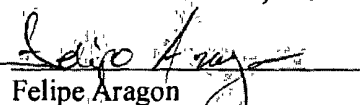
Dear Ms. Cook-Cowden,

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities performed at the Douthit #4R (hBr) well site located in Section 26, Township 27 North, Range 11 West, San Juan County, New Mexico. Prior to Envirotech's arrival on September 19, 2011, the BGT had been removed. 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 TPH using USEPA Method 8015, 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 the regulatory standard of 100 parts per million (ppm) TPH using USEPA Method 418.1, confirming a release did occur.

A brief site assessment was conducted and the regulatory standards were determined to be 5000 ppm TPH and 100 ppm organic vapors due to horizontal distance to surface water between 200 feet 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 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.


Felipe Aragon
Environmental Field Technician
faragon@envirotech-inc.com

Enclosures: Analytical Results
Field Notes

Cc: Client File 92115

5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 | Fr (800) 362-1879 | Fx (505) 632-1865 | info@envirotech-inc.com | envirotech-inc.com





envirotech
Analytical Laboratory

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

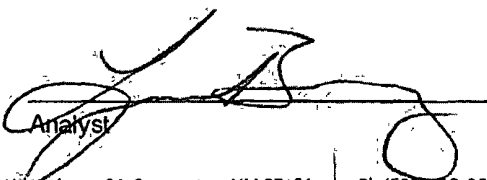
Client:	ConocoPhillips	Project #:	92115-1958
Sample ID:	BGT Comp.	Date Reported:	09-20-11
Laboratory Number:	59692	Date Sampled:	09-19-11
Chain of Custody No:	12598	Date Received:	09-19-11
Sample Matrix:	Soil	Date Extracted:	09-19-11
Preservative:	Cool	Date Analyzed:	09-20-11
Condition:	Intact	Analysis Requested:	8015 TPH

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

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: **BGT Closure / Douthit #4R.**


Analyst


Review

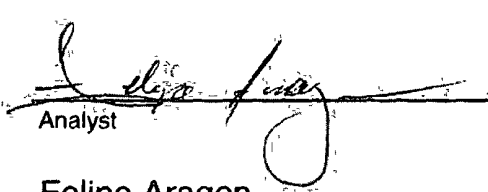


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 19-Sep-11

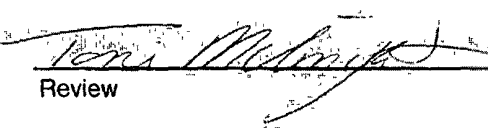
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	191
	200	
	500	
	1000	

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


Analyst

Felipe Aragon

Print Name


Review

Toni McKnight, EIT

Print Name

9/26/2011

Date

9/26/2011

Date



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	92115-1958
Sample ID:	BGT Comp.	Date Reported:	09-20-11
Laboratory Number:	59692	Date Sampled:	09-19-11
Chain of Custody:	12598	Date Received:	09-19-11
Sample Matrix:	Soil	Date Analyzed:	09-20-11
Preservative:	Cool	Date Extracted:	09-19-11
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	

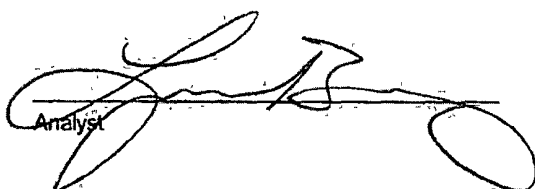
ND - Parameter not detected at the stated detection limit.

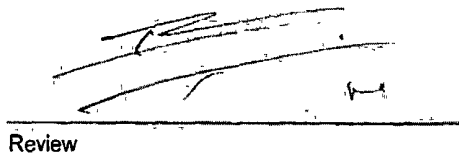
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	89.8 %
	1,4-difluorobenzene	89.1 %
	Bromochlorobenzene	88.9 %

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: BGT Closure / Douthit #4R.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	0920BLK QA/QC	Date Reported:	09-20-11
Laboratory Number:	59692	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-20-11
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	3.0399E+006	3.0460E+006	0.2%	ND	0.1
Toluene	3.1134E+006	3.1197E+006	0.2%	ND	0.1
Ethylbenzene	2.7343E+006	2.7398E+006	0.2%	ND	0.1
p,m-Xylene	7.3197E+006	7.3344E+006	0.2%	ND	0.1
o-Xylene	2.4903E+006	2.4953E+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

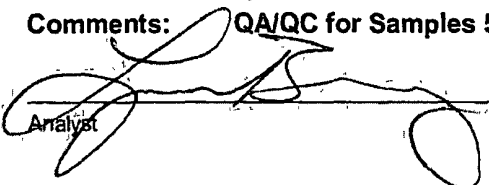
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	504	101%	39 - 150
Toluene	ND	500	505	101%	46 - 148
Ethylbenzene	ND	500	501	100%	32 - 160
p,m-Xylene	ND	1000	1,010	101%	46 - 148
o-Xylene	ND	500	502	100%	46 - 148

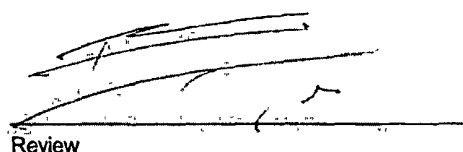
ND - Parameter not detected at the stated detection limit.

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 Photolionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 59692.

Analyst 

Review 



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-20-11 QA/QC	Date Reported:	09-20-11
Laboratory Number:	59692	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-20-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	40806	1.001E+03	1.002E+03	0.04%	0 - 15%
Diesel Range C10 - C28	40806	9.996E+02	1.000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	6.41	0.2
Diesel Range C10 - C28	0.80	0.1

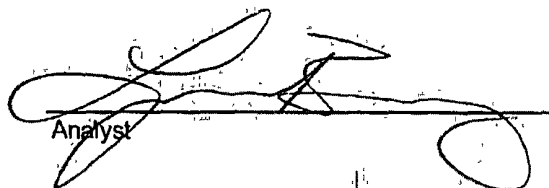
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.00%	0 - 30%

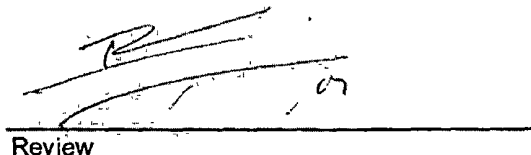
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	99.8%	75 - 125%
Diesel Range C10 - C28	ND	250	253	101%	75 - 125%

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 59692, 59448-59452, 59693-59697.


Analyst

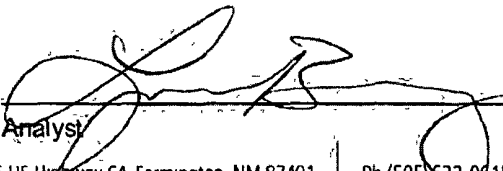
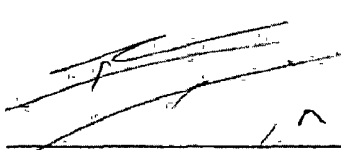

Review

Chloride

Client:	ConocoPhillips	Project #:	92115-1958
Sample ID:	BGT Comp	Date Reported:	09/20/11
Lab ID#:	59692	Date Sampled:	09/19/11
Sample Matrix:	Soil	Date Received:	09/19/11
Preservative:	Cool	Date Analyzed:	09/20/11
Condition:	Intact	Chain of Custody:	12598

Parameter**Concentration (mg/Kg)****Total Chloride****220****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:**BGT Closure / Douthit #4R.**
Analyst
Review

* Rush

CHAIN OF CUSTODY RECORD

12598

Client: Conoco Phillips			Project Name / Location: BGT Closure / Dought #4R			ANALYSIS / PARAMETERS														
Client Address:			Sampler Name: F. Aragon			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCL	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Client Phone No.:			Client No.: 92115-1958																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl Ca														
BGT Comp.	7-19	9:55	59692	Soil Solid	Sludge Aqueous	1/4GZ			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															
Relinquished by: (Signature)			Date		Time		Received by: (Signature)			Date		Time								
			7/19/11		15:00					7/19/11		15:00								
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

PAGE NO: <u>1</u> OF <u>1</u>	 (505) 632-0615 (800) 362-1879 5706 U.S. Hwy 84, Farmington, NM 87401	ENVIRONMENTAL SPECIALIST: <u>DA</u>
DATE STARTED: <u>9-17-11</u>		LAT: <u>36°33'5.06</u>
DATE FINISHED:		LONG: <u>107°58'13.32"</u>

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>Dogath #</u>	WELL #: <u>72</u>	TEMP PIT: <u>PERMANENT PIT:</u>	BGT: <u>X</u>
LEGAL ADD: UNIT: <u>B</u>	SEC: <u>26</u>	TWP: <u>27N</u>	RNG: <u>11W</u> PM: <u></u>
QTR/FOOTAGE: <u></u>	CNTY: <u>SD</u>	ST: <u>NM</u>	
EXCAVATION APPROX: <u>20</u> FT. X <u>20</u> FT. X <u>4</u> FT. DEEP	CUBIC YARDAGE: <u></u>		
DISPOSAL FACILITY: <u></u>	REMEDATION METHOD: <u></u>		
LAND OWNER: <u></u>	API: <u></u>	BGT / PIT VOLUME: <u>120 bbl</u>	
CONSTRUCTION MATERIAL: <u>Single wall</u> DOUBLE-WALLED, WITH LEAK DETECTION: <u></u>			

LOCATION APPROXIMATELY: <u>10</u> FT. <u>75'</u> FROM WELLHEAD
DEPTH TO GROUNDWATER: <u>556</u> S.W. <u>1220'</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

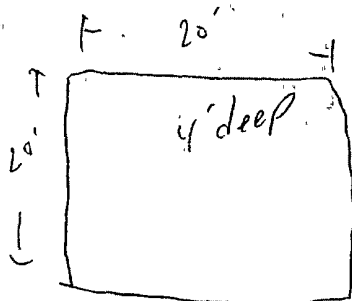
☒ PERMANENT PIT OR BGT

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)
9:50	260 STD					191	
9:55	BGT CAMP	1				34	136
		2					
		3					
		4					
		5					
		6					

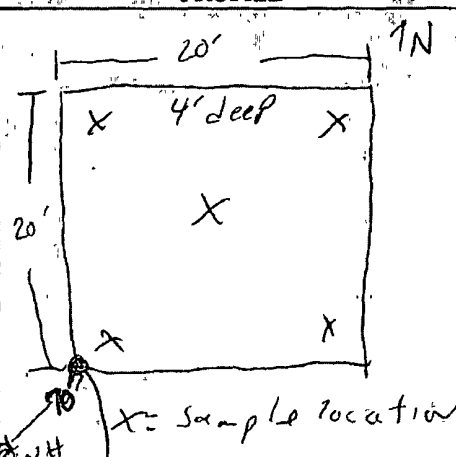
PERIMETER



FIELD CHLORIDES RESULTS

SAMPLE ID	READING	CALC. (mg/kg)
1	0.0	
2	4.2	191
3		
4		
5		
6		

PROFILE



PID RESULTS

SAMPLE ID	RESULTS (mg/kg)
1	0.0
2	
3	
4	
5	
6	

LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

NOTES:

36°33'5.18" N
107°58'13.26" W

Ranking:

WORKORDER #

WHO ORDERED

Client: ConocoPhillips	 (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 84, Farmington, NM 87401	Location No: <i>Docket # 42</i> C.O.C. No.: <i>12598</i>						
FIELD REPORT: SPILL CLOSURE VERIFICATION		PAGE NO: <i>1 OF 1</i>						
LOCATION: NAME: <i>Docket # 4</i> WELL #: <i>4R</i>		DATE STARTED: <i>9-19-11</i>						
QUAD/UNIT: <i>B</i> SEC: <i>26</i> TWP: <i>27N</i> RNG: <i>11W PM</i> CNTY: <i>SS ST-NM</i>		DATE FINISHED:						
QTR/FOOTAGE: CONTRACTOR:		SPECIALIST: <i>F. Aragon</i>						
EXCAVATION APPROX: FT. X FT. X FT. DEEP CUBIC YARDAGE:								
DISPOSAL FACILITY: REMEDIATION METHOD:								
LAND USE: <i>Cropland</i> LEASE: LAND OWNER:								
CAUSE OF RELEASE: MATERIAL RELEASED:								
SPILL LOCATED APPROXIMATELY: <i>70</i> FT. FROM <i>well head</i>								
DEPTH TO GROUNDWATER: NEAREST WATER SOURCE: NEAREST SURFACE WATER:								
NMOCD RANKING SCORE: NMOCD TPH CLOSURE STD: <i>5000 PPM</i>								
SOIL AND EXCAVATION DESCRIPTION:								
SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<i>200 STD</i>	<i>9:50</i>	-	-	-	-	-	<i>P1</i>	-
<i>BGT</i>	<i>Consp</i>	<i>1</i>	-	<i>5</i>	<i>20</i>	<i>4</i>	<i>34</i>	<i>136</i>

SPILL PERIMETER	OVM RESULTS	SPILL PROFILE																									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> <tr> <td><i>1</i></td> <td><i>0.0</i></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> <tr><td> </td><td> </td></tr> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	<i>1</i>	<i>0.0</i>																	<i>[Hand-drawn diagram showing a square spill area measuring 20' by 20'. Inside the square are four 'x' marks representing sample locations. One corner is labeled 'well head' with a circled cross symbol.]</i> <i>x = Sample location</i>					
	SAMPLE ID	FIELD HEADSPACE PID (ppm)																									
	<i>1</i>	<i>0.0</i>																									
LAB SAMPLES																											
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