District.1 '1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 R10 Brazos Road, Aztec, NM 87410 District IV

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

1220 S. St. Francis Dr., Santa Fe, NM 8	37505	Santa	Fe, NM 8750	05	•	•	side of form
30-045-33813 Release Notification and Corrective Action OPERATOR ☐ Initial Report ☐ Final Report							
Name of Company Burling			Contact	Kelsi H	arrington	Сероп	M That Report
Owned Subsidiary of Con	ocoPhillips Co	mpany					
	St., Farmingto	on, NM 87402	Telephone N				
Facility Name Culpepper M	artin 111S	T	Facility Type	·		API #3004	533813
Surface Owner Private		Mineral Owner	Private		Leas	e No.	
			ON OF REL				
Unit Letter Section Townsh		eet from the No	orth/South Line South	Feet from the 1600 '	East/West Li West	ine Count	y San Juan
<u> </u>		tude <u>36.9383° N</u>		l			
	Dati	-	E OF RELE	*****	<u>*</u>		
Type of Release - Produced	Water	NATOR		lease – 26.4 BB	L	Volume Re	covered - 1 BBL
Source of Release: Pit Tank			Date and Hour	of Occurrence		Date and H	our of Discovery
Was Immediate Notice Given?			10/4/10 10:			10/7/10 9	9:35 a.m.
	Yes No [Not Required		owell (NMOCI	D): Verbal a	nd follow	-up email
By Whom? Gwen Frost				- 10/7/10 2:	-		
Was a Watercourse Reached?				ne Impacting the			
If a Watercourse was Impacted, D	Yes No)					
Describe Cause of Problem and R as a result of Multi-Skilled							
in and a vacuum truck wa			THE WISO W	as terminated	i. Opon dis	covery, tr	ie weii was snut
Describe Area Affected and Clear cribbing. Approximately a below the regulatory stand however due to surface st standards set forth in the action is needed.	1 BBL of fluid v dards set forth taining the area	was recovered in the NMOCI a was hydro-ex	. Confirmation OGuidelines Cavated. Th	on sampling of for Remediati e final analyti	occurred. A on of Leak cal results	Analytical s, Spills a were belo	results were nd Releases; ow the regulatory
I hereby certify that the information regulations all operators are required public health or the environment. Should their operations have failed or the environment. In addition, Nederal, state, or local laws and/or	red to report and/or The acceptance of I to adequately involved NMOCD acceptance regulations.	file certain release a C-141 report by estigate and remedi	notifications and the NMOCD ma ate contamination	d perform correction rked as "Final Reson that pose a three	ive actions for port" does not at to ground wa	releases whi relieve the o ater, surface	ch may endanger perator of liability water, human health
Signature: Kelon Harring	gton			OIL CONS	ERVATIO	N DIVIS	<u>ION</u>
Printed Name: Kelsi Har	rington		Approved by I	District Supervisor	r. Jana	HO.	Koll.
Title: Environme	ntal Consultar	nt	Approval Date		Expirati	on Date:	1400
E-mail Address: kelsi.g.harrin	gton@conoco	phillips.com	Conditions of	Approval:		Attack	
Date: 12/1/10		-599-3403		m-12346	>	Attach	ed 🗌
* Attach Additional Sheets If New	cessary		1374 15262728	PECENE NU 2010 NL CONS. DIV. DIST	7000121314 SS	K11334	35 721 22



November 8, 2010

Project Number 92115-1469

Phone: (505) 599-3403

Fax: (505) 599-4005

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

RE: SPILL ASSESSMENT DOCUMENTATION FOR THE CULPEPPER MARTIN #111S (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 Culpepper Martin #111S (hBr) well site located in Section 33, Township 32 North, Range 12 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on October 18, 2010, a brief site assessment was conducted. Because depth to groundwater was less than 50 feet, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

A spill assessment was conducted in order to find the extents of the spilled area. Seven (7) samples were collected from the area below the below-grade tank (BGT) pit where a BGT had overflowed produced water; see enclosed Field Notes. Prior to Envirotech personnel's arrival, the BGT had been removed. One (1) five (5)-point composite sample was collected from the surface of the bottom of the BGT pit. One (1) sample was collected at three (3) feet below the bottom of the pit in each of the northwest, southeast, southwest, northeast and center areas of the pit. One (1) sample was collected from the northwest area of the pit at five (5) feet below the bottom of the pit. All of the samples were screened in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID); see enclosed Analytical Results and Summary of Analytical Results. The extents of the area of the release were determined to be approximately 15 feet by 15 feet by 3 feet below the surface of the pit. The sample collected from the surface of the bottom of the BGT pit was also analyzed for chlorides and returned results of 122 ppm chlorides. Additionally, the sample collected from the surface of the bottom of the BGT pit was placed into a four (4)-ounce glass jar, capped head space 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 below regulatory standards for all constituents analyzed; see enclosed Analytical Results

On October 28, 2010, Envirotech personnel returned to the site for spill closure activities. Due to the surface staining and odor of the contaminated area, the spill was hydro-excavated by Polaris hydro-excavators. The contaminated area was hydro-excavated to the extents of

ConocoPhillips Culpepper Martin #111S (hBr) Project Number 92115-1469 Spill Assessment Page 2

approximately 15 feet by 15 feet by 3 feet deep. A five (5)-point composite sample was collected from the excavated area and screened in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID); see enclosed *Field Notes*. The sample returned results below regulatory standards for all constituents analyzed; see enclosed *Analytical Results*. Therefore, 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.

Scott Gonzales

Senior Environmental Field Technician sgonzales@envirotech=inc.com

Enclosure(s): Summary of Analytical Results

Analytical Results

Field Notes

Cc: Client File 92115

Table 1, Summary of Analytical Results

ConocoPhillips
Culpepper Martin #111S (hBr)
Confirmation Sampling Report
Project Number 92115-1469

						USEPA Me	thod 8021
		Sample	PID	USEPA Method 418.1	USEPA Method 8015	Benzene	BTEX
Date	Sample Description	Number	OV (ppm)	TPH (ppm)	TPH (ppm)	(ppm)	(ppm)
	New Mexico Oil Conservation				(基本资本人的基本)。		
NA -	Division Standards	NA -	100	100	- 1	10	50
10/18/2010	5-pt, Surface Composite	1	495	1940	23,1	ND	0.386
10/18/2010	Northwest 3 Feet Deep	2	309	1244	NS	NS	NS
10/18/2010	Northwest 5 Feet Deep	3	238	1140	NS	NS	NS
10/18/2010		4	9.3	72	NS	NS	NS
10/18/2010	·	5	35.2	48	NS	NS	NS
10/18/2010		6	13.2	84	NS	NS	NS
10/18/2010	*	7	27.7	80	NS	NS _	NS
10/28/2010	5-pt. Composite 3 Feet Deep	1	21.1	.72	NS	NS -	NS .

^{*}Values in **BOLD** above regulatory limits

Closure Samples Highlighted

^{*}NS - Parameter not sampled

^{*}ND - Parameter not detected



Client:

ConocoPhillips

Project #:

92115-1469

Sample No.:

- 1

Date Reported:

10/22/2010

Sample ID:

5-pt. Surface Composite

Date Sampled:

10/18/2010

Sample Matrix:

Soil

Date Analyzed: Analysis Needed:

10/18/2010 TPH-418.1

Preservative: Condition:

Parameter

Cool and Intact

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

Total Petroleum Hydrocarbons

1,940

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:

Culpepper Martin #111S (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Allalyst

Scott Gonzales

Printed

Sarah Rowland, EIT



Client:

ConocoPhillips

Sample No.: Sample ID:

Northwest 3 Feet Deep

Sample Matrix: Preservative:

Soil

Condition:

Cool

Cool and Intact

Project #:

92115-1469

Date Reported:

10/28/2010

Date Sampled: Date Analyzed:

10/18/2010

Analysis Needed:

10/18/2010

Needed: TPH-418.1

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

Total Petroleum Hydrocarbons

1,240

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:

Culpepper Martin #111S (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

__AllalySt

Scott Gonzales

Printed

Review

Sarah Rowland, EIT



Client:

ConocoPhillips

92115-1469

Sample No.:

Project #: Date Reported:

10/28/2010

Sample ID:

Northwest 5 Feet Deep

10/18/2010

Sample Matrix:

Soil

Date Sampled:

10/18/2010

Preservative:

Cool

Date Analyzed: Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

1,140

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:

Culpepper Martin #111S (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Scott Gonzales

Printed

Sarah Rowland, EIT



Client:

ConocoPhillips

Sample No.:

Sample ID:

Southeast 3 Feet Deep

Sample Matrix: Preservative:

Soil

Condition:

Cool

Cool and Intact

Project #:

Date Reported:

10/18/2010

Date Sampled: Date Analyzed:

10/18/2010

92115-1469

10/28/2010

Analysis Needed: TPH-418.1

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

Total Petroleum Hydrocarbons

72

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:

Culpepper Martin #111S (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Scott Gonzales

Printed

Sarah Rowland, EIT



Client:

ConocoPhillips

92115-1469

Sample No.:

5

Project #: Date Reported:

10/28/2010

Sample ID:

Southwest 3 Feet Deep

10/18/2010

Sample Matrix:

Soil

Date Sampled:

Preservative:

Cool

Date Analyzed: Analysis Needed:

10/18/2010 TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

48

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:

Culpepper Martin #111S (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Scott Gonzales

Printed

Sarah Rowland, EIT



Client:

ConocoPhillips

Project #:

92115-1469

Sample No.:

6

Date Reported:

10/22/2010

Sample ID:

Northeast 3 Feet Deep

Date Sampled:

10/18/2010

Sample Matrix:

Soil

Date Analyzed:

10/18/2010

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

80

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:

Culpepper Martin #111S (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Scott Gonzales

Printed

Sarah Rowland, EIT



Client:

ConocoPhillips

Center 3 Feet Deep

Project #:

92115-1469

Sample No.:

Date Reported:

10/22/2010

Sample ID:

Soil

Date Sampled:

10/18/2010

Sample Matrix:

Date Analyzed:

10/18/2010

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

84

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:

Culpepper Martin #111S (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Scott Gonzales

Printed

Sarah Rowland, EIT



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

	-
Cal	Date.

18-Oct-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
TPH	100		
	200	203	
	500		
	1000		

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

2011 (A) C	10/22/2010
Analyst	Date
Scott Gonzales	
Print Name	
Sah Qall	10/22/2010
Review /	Date

Sarah Rowland, EIT

Print Name



Field Chloride

Client:

ConocoPhillips

92115-1469

Sample No.:

Project #:

10/22/2010

Sample ID:

5-pt. Surface Composite

Date Reported:

Sample Matrix:

Soil

Date Sampled: Date Analyzed: 10/18/2010 10/18/2010

Preservative:

Cool

Analysis Needed:

Chloride

Condition:

Cool and Intact

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

Field Chloride

122

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:

Cülpepper Martin #111S (hBr)

Scott Gonzales

Printed

Sarah Rowland, EIT



Client:

ConocoPhillips

1

Sample No.: Sample ID:

5 pt. Comp

Sample Matrix: Preservative:

Soil

Condition:

Cool

Cool and Intact

Project #:

92115-1469

Date Reported:

10/28/2010

Date Sampled:

10/28/2010

Date Analyzed:

Analysis Needed:

10/28/2010

TPH-418.1

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

Total Petroleum Hydrocarbons

72

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:

Culpepper Martin #111S (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Scott Gonzales

Printed

Sarah Rowland, EIT



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

28-Oct-10

Parameter	Standard Concentration mg/L	Concentration Réading mg/L	
TPH	100	,	
	180	184	
	500		
	1000		

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

South Coll	10/28/2010
Analyst	Date
Scott Gonzales	
Print Name	
Sh RII	10/28/2010
Review	Date

Print Name



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ConocoPhillips (hBr)	Project #:	92115-1469
Sample ID:	5 Pt Surface Composite	Date Reported:	10-20-10
Laboratory Number:	56247	Date Sampled:	10-18-10
Chain of Custody No:	10553	Date Received:	10-19-10
Sample Matrix:	Soil	Date Extracted:	10-19-10
Preservative:	Cool	Date Analyzed:	10-20-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	
Gasoline Range (C5 - C10)	15.7	0.2	
Diesel Range (C10 - C28)	7.4	0.1	
Total Petroleum Hydrocarbons	23.1		

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: Culpepper 1:11S

Analyst

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



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

Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	10-20-10 QA/0	QC	Date Reported:		10-20-10
Laboratory Number:	56247		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ide	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		10-20-10
Condition:	N/A		Analysis Reques	ted:	TPH
The same of the sa				A. M.	
	. (FCal/Date)	VI:CaliRF	CECALIRE:	% Difference	/ Accept Range
Gasoline Range C5 - C10	10-20-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	10-20-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
		260.20			*****
Blank Conc. (mg/L = mg/K	g)	Concentration		Detection Lin	il .
Gasoline Range C5 - C10	•• ′	ND		0.2	
Diesel Range C10 - C28		ND		0.1	
2.5 55 55 55 55 55 55 55 55 55 55 55 55 5			4.4.4.		. 14
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Differences	Accept Range	
Gasoline Range C5 - C10	15.7	15.6	0.6%	0 - 30%	••
Diesel Range C10 - C28	7.4	7.5	1.4%	0 - 30%	
				· · ·	
Spike@onc::(mg/Kg)	Sampie:	"Spike Added"	Spike Result	%.Recovery.	Accept Range
Gasoline Range C5 - C10	15.7	250	273	103%	75 - 125%
Diesel Range C10 - C28	7.4	250	260	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 56247, 56250, 56254

Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips (hBr)	Project #:	92115-1469
Sample ID:	5 Pt Surface Composite	Date Reported:	10-20-10
Laboratory Number:	56247	Date Sampled:	10-18-10
Chain of Custody:	10553	Date Received:	10-19-10
Sample Matrix:	Soil	Date Analyzed:	10-20-10
Preservative:	Cool	Date Extracted:	10-19-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

	Dilution:	10
Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.0
Toluene	2.1	0.9 1.0
Ethylbenzene	11.4	1.0
p,m-Xylene	287	1.2
o-Xylene	85.7	0.9
Total BTEX	386	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery		
	Fluorobenzene	100 %		
	1,4-difluorobenzene	100 %		
	Bromochlorobenzene	101 %		

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:

Culpepper 111S



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A		Project #:		N/A	
Sample ID:	1020BBLK QA/Q	1020BBLK QA/QC		Date Reported:		
Laboratory Number:	56247		Date Sampled:		N/A	
Sample Matrix:	Soil		Date Received:		N/A	
Preservative:	N/A		Date Analyzed:		10-20-10	
Condition:	N/A		Analysis:		BTEX	
	ends		Dilution:	a 5%	10	
Calibration and Detection Limits (ug/L)	Pealine >	G-CaliRE Accept Rand		Blank, II Conc	Detect:" (460)	
					<u>lalmit</u>	
Detection Limits (ug/E)	Andrew Comments	Accept Rang	ge:0;::15%; <u> </u>	Concil	s salabin	
Detection Limits (ug/L) Benzene	5.2116E+005	Accept Rand 5.2220E+005	ge:0 ≥ 15%. 0.2%	Conc !!	<u>(Limit</u> 0.1	
Detection Limits (ug/L) Benzene Toluene	5.2116E+005 6.0182E+005	Accept Rand 5.2220E+005 6.0302E+005	ge:0,≥15%: 0.2% 0.2%	Concy! ND ND	0.1 0.1 0.1	

Duplicate/Conc.(ug/kg)	Sample):	uplicate a rive	%DIff	Accept Range	Detectatimit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	2.1	2.0	4.8%	0 - 30%	1.0
Ethylbenzene	11. 4	12.4	8.8%	0 - 30%	1.0
p,m-Xylene	287	291	1.3%	0 - 30%	1.2
o-Xylene	85.7	82.6	3.6%	0 - 30%	0.9

Spike Conc. (ug/Kg)		ount Spiked Spi	ked Sample) %	Recovery	Accept(Range)
Benzene	ND	500	502	100%	39 - 150
Toluene	2.1	500	508	101%	46 - 148
Ethylbenzene	11.4	500	513	100%	32 - 160
p,m-Xylene	287	1000	1,270	98.7%	46 - 148
o-Xylene	85.7	500	573	97.9%	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 56247, 56250 and 56254

Analyst

Review

CHAIN OF CUSTODY RECORD 10553

Client: [NBr	Project Name / Location: [NIP(PPTV III S											ANAL	YSIS	/ PAR	AME	TERS	 	-				
Client Address:		5	Sampler Name: Scott	onz	ales				8015)	BTEX (Method 8021)	8260)	S			0.					•		
Client Phone No.:		C	Client No.: 92115 -	ML					TPH (Method 8015)	(Metho	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	!	ample Matrix	No./Volume of Containers			TPH (ВТЕХ	VOC	HCR/	Cation	NG NG	10년 -	PA H	H-H	SHC			Samp	Samp
5-Pt. Surface composite	10-18-10	17:00	56247	Solid	Sludge Aqueous	1 4-0Z			X	X		,									X	×
				Soil Solid	Sludge Aqueous							٠.										
				Soil Solid	Sludge Aqueous																	
		*		Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous							_						,				
		-		Soil Solid	Sludge Aqueous							જા. આ પ્રા ા					-					
				Soil Solid	Sludge Aqueous																	•
-				Soil Solid	Sludge Aqueous										_							
Relinquished by: (Signa	iture) /M T	MA			Date	Time 9:52	R	eceive	d by:	(Signa	ature)	1			3		_		 l 1	ete 9/12		me 52
Relinquished by: (Signa	ture)					,	R	eceive	ed by:	(S tgn:	ature)						O					
Relinquished by: (Signa	ture)						Re	eceive	d by:	(Signa	ature)				S-1			•				
RUS	H		· 5796 U:	S Highwa	y 64 • Farming		aly	tica	l La	boro	atory	/ `	h-inc.o	om:		•						

PAGE NO: OF DATE STARTED: 10-16-16-16 OCATION: NAME: C_1	lient:		otech (800) 362-1879 armington, NM 87401	Location N	
OCATION: NAME Colorate Model WELL #-1115 DATE STARTED: 0-15-16 PUADUNIT: N SEC 33 TWP: 325, RNG: 125, PM: NAME (COLORADO) PUADUNIT: N SEC 33 TWP: 325, RNG: 125, PM: NAME (COLORADO) PUADUNIT: N SEC 33 TWP: 325, RNG: 125, PM: NAME (COLORADO) PUADUNIT: N SEC 33 TWP: 325, RNG: 125, PM: NAME (COLORADO) PUADUNIT: N SEC 33 TWP: 325, RNG: 125, PM: NAME (COLORADO) PUADUNIT: N SEC 33 TWP: 325, RNG: 125, PM: NAME (COLORADO) PUADUNIT: N SEC 33 TWP: 325, RNG: 125, PM: NAME (COLORADO) PUADUNIT: N SEC 35, RNG: 125, PM	TELD REPORT: SPILL CL	OSURE VERIFICATION	and the second s	PAGE NO	: OF
NADDUNIT: A SEC 33 TWP: 32-1 RNG: 12N PM: ANPWED CNTY: \$3 \$T. Nm. ENVIRONMENTAL TREPORTOGE TILE OF FELL BED FACE CONTRACTOR: SPECIALIST: SEC 1110 FASC 1110	EED KEI OKI: SI IEE CE	OBORE VEXUE TO THE		DATE STA	ARTED: 10-18-16
TREPOOTAGE: 1110 FSE + 1000 FAUL CONTRACTOR: SPECIALIST: 56 XCAVATION APPROX: FT X FT X FT DEEP CUBIC YARDAGE INSPOSAL FACILITY: REMEDIATION METHOD: AND USE: LEASE FO: LAND OWNER: 120-144 AUSE OF RELEASE: DAT ALL OF MATERIAL RELEASED: 1000 MINE 120-144 AUSE OF RELEASE: DAT ALL OF MATERIAL RELEASED: 1000 MINE 120-144 AUSE OF RELEASE: DAT ALL OF MATERIAL RELEASED: 1000 MINE 120-144 BETTH TO GROUNDWATER: 750' NEARBEST WATER SOURCE: 7/00 NEARBEST SURFACE WATER 7/000 MOCD RANKING SCORE: 2 NMOCD THY CLOSURE STD. 7/00 PPM OUL AND EXCAVATION DESCRIPTION: GIS 2-10 BG 3 U. 1938-3240 LOS AND 12 1938-3240 LOS	OCATION: NAME: Colorege M.	actin WELL#IIIS			
XCAVATION APPROX. FI X FI X ET X ET DEEP CUBIC VARDAGE: INSPOSAL FACILITY: REMIEDIATION METHOD: AND USE: LEASE: LEASE: MATERIAL RELEASED COMMENT To CALC. MATERIAL RELEASED COMMENT TO CALC. MATERIAL RELEASED COMMENT COMMENT TO CALC. PRIJLICATED APPROXIMATELY: (c) FI 3 (5) FROM CALC. PROMICAL RANGES SURGES TO THE CONTROL STO. NEAD TO GROUNDWATER: (c) NAME SAMPLE DESCRIPTION: CALC. CAL	UAD/UNIT: AJ SEC: 33 TR/FOOTAGE: 1/120 FSE + 10	TWP: 32N RNG: 12N PM: NMP!	CNTY: \$7 ST: NM		and a first on the state of the contract of th
AND USE AUSE OF RELEASE BAT OWN HOLD PILL LOCATED APPROXIMATELY: Q FT. 3(5° FROM Dell'Ace) BETH TO GROUNDWATER: C 50° NEAREST WATER SOURCE: 7/00° NEAREST SURFACE WATER COOC MOCD RANKING SCORE: 20° NMOCD TPH CLOSURE STD. 70° PPM OUT AND EXCAVATION DESCRIPTION: G S G C BAT C BAT 30° 938 520° LOS 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°			PT DEE		
AND USE AUSE OF RELEASE BAT OWN HOLD PILL LOCATED APPROXIMATELY: Q FT. 3(5° FROM Dell'Ace) BETH TO GROUNDWATER: C 50° NEAREST WATER SOURCE: 7/00° NEAREST SURFACE WATER COOC MOCD RANKING SCORE: 20° NMOCD TPH CLOSURE STD. 70° PPM OUT AND EXCAVATION DESCRIPTION: G S G C BAT C BAT 30° 938 520° LOS 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	ISPOSAL FACILITY:	REMEDIA	TION METHOD:	P CUBIC 17	KDAUE:
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MOCD RANKING SCORE 26 NAME	NUSE OF RELEASE: BOT OVER PL	MATERIA MATERIA	L RELEASED: produce.	l Weter	Carrier Carrie
MOCO TANKING SCORE 26 NMOCO TPH CLOSURE STD: 100 PPM	PILL LOCATED APPROXIMATELY:	(9 FT. 315°	FROMwellhead	ji yaren ko	The State of the Control of the Cont
OIL AND EXCAVATION DESCRIPTION: GREAT OU 90 8520" ELOS 194 32 0 9 98 520" SAMPLE DESCRIPTION TIME SAMPLE LD. LAB NO. WEIGHT (2) mL FREON DILUTION READING. CALC. ppm 200 814" 12:65 20 544 12:65 20 544 3:466 Main ward from 15:35 3:466 May 2 5 20 4 311 12:444 VOLUE 6 16:20 11:35 58 13:60 4 5 20 4 311 12:444 VOLUE 6 16:20 11:35 58 3:466 May 3 5 20 4 28 5 14/0 SEQ 3:466 Main ward from 15:35 3:466 May 3 5 20 4 13 72 WE 0 3:466 Main ward from 15:35 36 3:466 May 5 5 20 4 13 72 WE 0 3:466 Main ward from 15:35 38 3:466 May 5 5 20 4 13 72 WE 0 3:466 Main ward from 15:35 38 3:466 May 15:55 20 4 12 43 72 WE 0 3:466 Main ward from 15:35 38 3:466 May 15:55 20 4 12 43 72 WE 0 3:466 Main ward from 15:35 38 3:466 May 15:55 20 4 12 43 72 SPILL PERIMETER SPILL PERIMETER RESULTS Control 15:466 3:469 May 15:25 20 4 12 4 12 4 15 10 10 10 10 10 10 10 10 10 10 10 10 10	EPTH TO GROUNDWATER: 650	NEAREST WATER SOURCE:	oo NEARES	r SURFACE	WATER: 1000
Cherist Samele 3.4 122970 SAMPLE DESCRIPTION TIME SAMPLE ID. LAB NO. WEIGHT (g) mL FREON DILUTION READING. CALC. ppm 200 544 12.50 200 sid. 504 0.000 12.15 504 800 2 5 200 44 485 1940 3 deer distinguish for 12.35 504 800 2 5 20 44 485 1940 3 deer distinguish for 12.35 504 800 2 5 20 44 185 172 VILLO 6 (1000 10.30 580 2000 2 5 20 44 12 245 VILLO 6 (1000 10.35 580 2000 2 5 20 44 12 45 VILLO 7 (1000 10.35 580 2000 2 5 20 44 12 45		NMOCD TPH CLOSU	RESID: 100	PPM	r Hasari yazar wasa
SAMPLE DESCRIPTION TIME SAMPLE I.D. LAB NO. WEIGHT (g) mL FREON DILUTION READING CALC. ppm 200 St. 12:60 200 st. 200	(08,104.72)		,		:
200. St. 12:00 200 st. Sol. Open 12:15 Spl. Sp.	SAMPLE DESCRIPTION TIME	ISAMPLE LD LIAR NO LWEIGHT	m FREON DICUTTO	NIREADING	CALC nnm
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VE @ 3 dree VE 9 dree G S Z e Q Z e S e	E @ 3 /010 16:35	303 den 19			7.72 F. C.
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RESULTS SAMPLE FIELD HEADSPACE PID (ppm) Solver 195 Solver 2233 SES Map 93 Solver 235 2 NES MAPLE LAB SAMPLES SAMPLE ANALYSIS TIME	enter of Batiles door lives		40 / 40 /		84
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and the second of the second o			(50) 5796 U	I.S. Hwy 64, Fare	800) 362-187 nington, NM 87	79 7401	C.O.C. No	: Antes	
FIELD REPORT: SI	PILL CL	OSURE V	ERIFIC	ATION		Marine Committee of the	PAGE NO		
			5 5V, 3.	.0. 50.1	N A A A A A A A A A A A A A A A A A A A			ARTED: 10-28-10	
LOCATION: NAME: C.	1 perse	Martin TWP:32N	WELL #:-	IVS.			DATE FIN		
QUAD/UNIT:		MENTAL,							
QTR/FOOTAGE: 1110 FS		3 FAIL	CONTRAC	TOR: Toky	S. L. Conoli		SPECIAL	st: БВ	
EXCAVATION APPROX: 15 FT. X 15 FT. X 3 FT. DEEP CUBIC YARDAGE:									
DISPOSAL FACILITY: IL			` \	REMEDIATI					
LAND USE:	and the second		LEASE: 万			LAND OW	NER: Pri	iği Ç	
CAUSE OF RELEASE: **BC	T look	Annual Contraction	Company of the	MATERIAL I	RELEASED	Produced	doker in	Lentel ort	
SPILL LOCATED APPROXI	MATELY:	49	FT. 30	5 ⁺ *``	FROM we/	her l	420		
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SOIL AND EXCAVATION I				- 1 %			····	· . · .	
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SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION		CALC. ppm	
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			SAMPLE	FIELD HEAD					
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			SAMPLE	ANALYSIS	TIME	-		(c.	
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