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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

1220 S. St. Fran	cis Dr., Santa	Fe, NM 87505	5	Sa	ınta F	e, NM 875	05					
		<u> </u>	Rele	ease Notific	catio	n and Co	rrective A	ction	1	and the second s	1 <u>12.5 (1.55 186</u>	The second of th
						OPERA'	ГOR		☐ Initia	al Report	\boxtimes	Final Repor
Name of Co	ompany Bi	urlington Res	ources O	il & Gas Compa	ny		ystal Tafoya					
							No.(505) 326-98	37				
Facility Name: San Juan 30-6 Unit 471						Facility Typ	e: Gas Well					
Surface Ow	ner BLM			Mineral C)wner	BLM (SF-08	30712-A)		API No	.30-039-24	1512	
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter K	Section 21	Township 30N	Range 6W	Feet from the 1820	Nortl	n/South Line South	Feet from the 1430	l	West Line West	County Rio Arrib	——— a	
			<u> </u>		 6.7957		le <u>107.47174</u>		.,, 0.,	1 20 1212	<u></u> -	
				-		OF REL	-					
Type of Rele	ase Proc	luced Water		1171	OILL	Volume of		s	Volume F	Recovered	None	<u> </u>
Source of Re		er Tank					our of Occurrence	e	Date and	Hour of Dis at 7:30 am		
Was Immedia	ate Notice C	Given?				If YES, To	Whom?		1 0/0/2012			
☐ Yes ☐ No ☐ Not Required							Powell (OCD) &			1)		
By Whom? Was a Water		Maxwell had?				Date and Hour 8/8/2012 at 9:15 am If YES, Volume Impacting the Watercourse.						
was a water	course Reac		Yes 🔲 1	No			tered an unname					
If a Watercou	irse was Im	pacted, Descr	be Fully.*	*						RCVD APR	2 1:	3
										DIL CONS		
										DIST.		-
Describe Cau												
The base of a	a water tan	k developed	a leak rel	ease 8bbls produ	ced wa	iter, Obbls we	re recovered. Fl	uid ren	naining in t	he tank wa	s remov	ed.
Da 31 A	A CC 4 1	1.01	1 mm 1	16		-			· \			
Describe Are				ten.* ed in NMOCD's (Guidel	ines for Leaks	s. Spills and Rele	ases at	nd the relea	se was assig	med a r	anking
				dic confirmation								
below applic	able NMO	CD action lev	els. No f	urther work will	be per	formed. The	final report is at	tached	for review	•		
				is true and comp nd/or file certain r								
				te of a C-141 repo								
should their o	perations h	avę failed to a	dequately	investigate and re	emedia	te contaminati	on that pose a thr	eat to g	round water	, surface wa	ter, hun	nan health
				tance of a C-141	report (does not reliev	e the operator of	respons	ibility for co	ompliance w	ith any	other
federal, state,	or local lav	vs and/or regu	ilations.				OIL CON	CEDI	ATION	DIVICIO	NI	
		n programme	4		1		OIL CON,	<u> </u>	ATION	V V	<u>/1N</u>	
C:-	ny ta	ca lap	oya								1	
Signature:			U			Approved by	Environmental S	pecialis	t: WONE	MILAUL	m	
Printed Name	e: Crystal	Tafoya									0_	
Title: Field I	Environma	ntal Specialis				Approval Dat	a 9/14/200	3	Expiration 1	Data:		-
TIUE. FIEIU I	environine	ntai opecialis				Approvar Dat	· yayaus		Бхриацоп	Date.		

Conditions of Approval:

Date: 4/1/2013

E-mail Address: crystal.tafoya@conocophillips.com

Phone: (505) 326-9837

Attached

^{*} Attach Additional Sheets If Necessary

SPILL ASSESSMENT REPORT

LOCATED AT:
SAN JUAN 30-6 #471 (HBR)
SECTION 21, TOWNSHIP 30 NORTH, RANGE 6 WEST
RIO ARRIBA COUNTY, NEW MEXICO

PREPARED FOR:
CONOCOPHILLIPS
MS. ASHLEY MAXWELL
3401 EAST 30TH STREET
FARMINGTON, NEW MEXICO 87402

PROJECT NUMBER 92115-2245 AUGUST 2012



March 25, 2013

Project Number 92115-2245

Phone: (505) 215-8529

Ms. Ashley Maxwell ConocoPhillips 3401 East 30th Street Farmington, New Mexico 87402

RE: SPILL ASSESSMENT REPORT FOR SAN JUAN 30-6 #471 (HBR), RIO ARRIBA COUNTY, NEW MEXICO

Dear Ms. Maxwell:

Enclosed please find the *Spill Assessment Report* detailing spill assessment activities conducted at San Juan 30-6 #471 (hBr) located in Section 21, Township 30 North, Range 6 West, Rio Arriba County, New Mexico.

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/CES

Senior Environmental Field Technician

faragon@envirotech-inc.com

Enclosures:

Spill'Assessment Report

Cc:

Client File Number 92115



CONOCOPHILLIPS SPILL ASSESSMENT REPORT SAN JUAN 30-6 #471 (HBR) SECTION 21, TOWNSHIP 30 NORTH, RANGE 6 WEST RIO ARRIBA COUNTY, NEW MEXICO

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Tables:	Table 1, Summary of Analytical Results	
Appendices:	Appendix A, Analytical Results Appendix B, Site Photography	

INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by ConocoPhillips to provide spill assessment activities for a release of produced water from an above ground storage tank (AST) located at the San Juan 30-6 #471 (hBr) well site in Rio Arriba County, New Mexico; see *Figure 1, Vicinity Map*. The release ran off location, down a rocky cliff and approximately 200 feet into an unnamed wash. Activities included sample collection and analysis, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted by ConocoPhillips on August 8, 2012, to conduct spill assessment and sampling activities due to a release of produced water at the above mentioned location. Prior to Envirotech personnel's arrival on the location, an emergency one call was performed in order to identify any underground utilities prior to excavation. Upon Envirotech personnel's arrival on August 8, 2012, a brief site assessment was conducted. Due to a distance to surface water between 200 and 1000 feet from the release, a distance to groundwater greater than 100 feet, and a distance to the nearest wellhead protection area greater than 1000 feet, the regulatory standards for the site were determined to be 1000 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.

Envirotech personnel identified the produced water impacted area to be west of the westernmost aboveground storage tank (AST); see enclosed Appendix B, Site Photography. One (1) sample was collected from the surface of the impacted area. The sample was analyzed in the field for TPH using USEPA Method 418.1, organic vapors using a photoionization detector (PID), and chlorides using a field chloride test. The sample returned results below regulatory standards for TPH and organic vapors and a result of 593 ppm chlorides. Envirotech personnel followed the visually saturated area off the location, down a rocky cliff, and approximately 200 feet into an unnamed wash. The visually saturated area of the wash was divided into four (4) sections, each approximately 50 feet in length, which were designated as Section 1, Section 2, Section 3 and Section 4; see enclosed Site Map. Four (4) composite samples were collected from the visually saturated area of the wash; one (1) sample from each section. The samples collected from Section 1 and Section 2 were analyzed in the field for TPH using USEPA Method 418.1, organic vapors using a PID, and chlorides using a field chloride test. The samples returned results below regulatory standards for TPH and organic vapors and a result of greater than 639 ppm chlorides; see enclosed Summary of Analytical Results and Analytical Results. The samples collected from Section 1, Section 2, Section 3 and Section 4 were then collected into four (4)-ounce glass jars, 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, benzene and total BTEX using USEPA Method 8021, and chlorides using USEPA Method 4500. Additionally, one (1) sample was collected from the wash down gradient of the visually saturated area and designated as Section 5. The sample collected from Section 5 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, benzene and total BTEX using USEPA Method 8021, and chlorides using USEPA Method 4500. All samples returned results of non-detect for TPH, benzene and total BTEX. The results for the chloride analyses are as follows: Section 1 - 1,540 ppm, Section 2 - 1,500 ppm, Section 3 - 1,240 ppm, Section 4 - 838 ppm, and Section 5 - 247 ppm; see enclosed Summary of Analytical Results and Analytical Results.

Envirotech personnel also collected three (3) background samples from the location to determine the naturally occurring levels of chlorides in the area. The background samples were designated as Background 1, Background 2, and Background 3. Background 1 and Background 2 were collected from up-gradient tributaries of the visually saturated wash and Background 3 was collected from the east boundary of the location; see enclosed *Site Map* for background sample locations. The samples were placed into four (4)-ounce glass jars, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 4500. The results for chloride analyses are as follows: Background 1 - 1.68 ppm, Background 2 - 3.18 ppm, and Background 3 - 17.1 ppm; see enclosed *Summary of Analytical Results* and *Analytical Results*.

Additionally, Envirotech personnel collected two (2) water samples from the location. One (1) sample was collected from a small pool of water in Section 1 and one (1) sample was collected from water that was replenishing a small excavation near the westernmost AST. The samples were collected into 125 ml poly bottles and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 4500. The Section 1 sample returned a result of 4,860 ppm chlorides and the West AST sample returned a result of 4,590 ppm chlorides; see enclosed Summary of Analytical Results and Analytical Results.

Envirotech personnel also performed excavation activities with a backhoe and hand tools to determine the origin of the release. The visually saturated area west of the AST bermed area was excavated to the extents of approximately four (4) feet by four (4) feet by three (3) feet deep. Envirotech personnel observed water draining into the excavation from the direction of the ASTs. Envirotech personnel further investigated the area around the ASTs and found the soil to be saturated with water, replenishing the small excavation in the area. The origin of the release was thought to be from the bottom of the westernmost AST.

Envirotech recommended submitting the analytical results to the NMOCD and the Bureau of Land Management (BLM) and following their recommendations. The NMOCD recommended no further action in regards to the well site location. The BLM recommended dispersing and raking gypsum into the impacted area of the wash and then conducting a 30 day confirmation sampling event.

Envirotech returned to the location on August 17, 2012, to perform gypsum disbursement and raking activities. Approximately 480 pounds of gypsum were disbursed and raked into Sections 1, 2, 3 and 4 of the wash.

Envirotech personnel returned to the site September 17, 2012, to perform confirmation sampling activities. Five (5) samples were collected; one (1) each from Sections 1 through 5. The samples were placed into four (4)-ounce glass jars, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 4500. Sections 1 and 2 returned results above chloride background levels; see enclosed *Summary of Analytical Results* and *Analytical Results*. Envirotech recommended a 30 day re-sampling event of Sections 1 and 2.

Envirotech personnel returned to the site October 17, 2012, to perform confirmation sampling activities. Two (2) samples were collected; one (1) each from Sections 1 and Section 2. The samples were placed into four (4)-ounce glass jars, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 4500. Both samples returned results above chloride background levels; see enclosed *Summary of Analytical Results* and *Analytical Results*. Envirotech recommended a 30 day re-sampling event of Sections 1 and 2.

Envirotech personnel returned to the site November 19, 2012, to perform confirmation sampling activities. Two (2) samples were collected; one (1) each from Sections 1 and Section 2. The samples were placed into four (4)-ounce glass jars, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 4500. Both samples returned results above chloride background levels; see enclosed *Summary of Analytical Results* and *Analytical Results*. Envirotech recommended a 30 day re-sampling event of Sections 1 and 2.

Envirotech personnel returned to the site January 16, 2013, to perform confirmation sampling activities. Two (2) samples were collected; one (1) each from Sections 1 and Section 2. The samples were placed into four (4)-ounce glass jars, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 4500. Both samples returned results above chloride background levels; see enclosed *Summary of Analytical Results* and *Analytical Results*. Envirotech recommended the following actions; re-sampling Sections 1 through 5 to determine if there has been any migration of the chlorides from Section 1 and 2 into the down-gradient sections, sampling the run-off path from the well site into the wash to determine if the wash is being re-contaminated by run-off from the well site, re-applying gypsum to the sections with high chloride levels, and any other recommendations of the BLM.

Envirotech personnel returned to the site February 5, 2013, to perform confirmation sampling activities. Seven (7) samples were collected; one (1) each from Sections 1 through 5, Spill Way, and West of AST's. The samples were collected into quart size zip lock bags, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 4500. All samples returned results of non-detect, except for the sample collected from Section 2, which returned a result of 153 ppm chloride; see enclosed *Summary of Analytical Results* and *Analytical Results*. Envirotech attributed the drop in the chloride

concentrations to the recent precipitation events. The precipitation activated the gypsum that was previously applied to the wash and solidified the chlorides. Envirotech recommends no further action in regards to this incident.

SUMMARY AND CONCLUSIONS

Spill assessment activities were performed for a release from an AST from the San Juan 30-6 #471 (hBr) well site located in Rio Arriba County, New Mexico. Produced water was released from the AST tank and traveled into an unnamed wash. Periodic confirmation sampling for chlorides was requested by the BLM until closure. Envirotech, Inc. recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill assessment activities from a produced water release from an AST located at the San Juan 30-6 #471 (hBr) in Rio Arriba County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the New Mexico Oil Conservation Division standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

The undersigned has conducted this service at the above referenced site; this work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry and hydrogeology.

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,

Reviewed by:

ENVIROTECH, INC.

Felipe Aragon, CES

Senior Environmental Field Technician

faragon@envirotech-inc.com

Greg Crabtree, PE

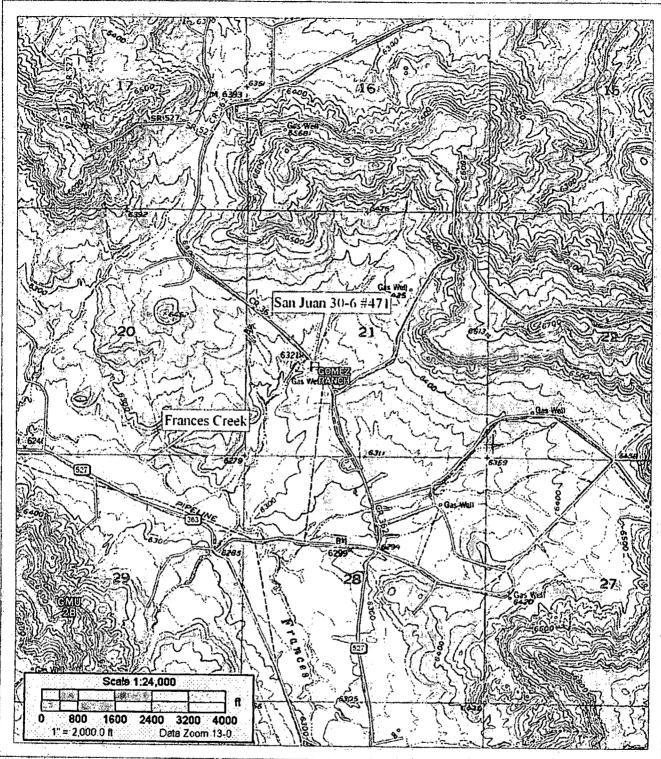
Environmental Manager

gcrabtree@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map



Source: 7.5 Minute Gomez Ranch, Blanco New Mexico U.S.G.S. Tapographic Quadrangle Map Scale: 1:24,000 1" = 2000"

ConocoPhillips
San Juan 30-6 #471
Section 21, Township 30N, Range 6W
Rio Arriba County, New Mexico

PROJECT Number:92115-2245 Date Drawn: 02/18/13

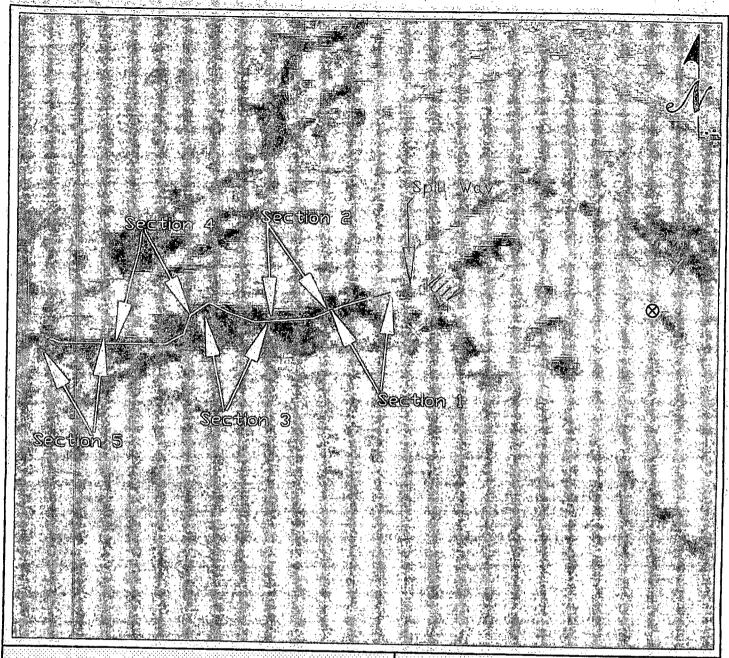


5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615 Spill Map

Figure #2

DRAWN BY: Felipe Aragon

PROJECT MANAGER: Greg Crabtree





Area West of AST's

Sabyro, Sections, Aspess to Post

×

WELLHEAD

X

Background Sample Locations

SITE MAP CONOCOPHILLIPS

San Juan 30-6 #471 (hBr)
Produced Water Spill Path
RIO ARRIBA COUNTY, NEW MEXICO

l	SCA	LE: N	ΠS		DOUG	T NO				REV
	PRO	JECT N	092115-	2245	FIGUR	RE NO				
					REVIS	ONS			111111	
L										
	NO.	DATE	BY			DES	CRIPTI	ON		
L	MAP	DRWN	FRA	2-	18-13	BASE	DRWN		V.,335	



2 envirotech

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

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results

ConocoPhillips San Juan 30-6 #471 Spill Assessment Report Project Number 92115-2245

							Total Chloride	USEPA Me	ethod 8021
Date	Sample Description	Sample Number	PID OV (ppm)	1	USEPA Method 8015 TPH (ppm)	Field Chlorides (ppm)	USEPA Method 4500B (ppm)	Benzene (ppm)	BTEX (ppm)
NA .	NMOCD Standards/NMED Drinking Water Standard	NA .	100.	1000	1000 ⋅ 3	NA.	- <u>3</u> *250	10.4	50
08/08/12	Source Composite	1	ND	116	ND	593	NS	NS	NS
08/08/12	Section 1	2	ND	144	ND	>639	1540	ND	ND
08/08/12	Section 2	3	_ ND	164	ND	>639	1500	ND	ND
08/08/12	Section 3	4	NS	NS	ND	NS	1240	ND	ND
08/08/12	Section 4	5	NS	NS	ND	NS	838	ND	ND
08/08/12	Section 5	6	NS	NS	ND	NS	247	ND	ND
08/08/12	Water/Section 1	7	NS	NS	NS	NS	4860	NS	NS
08/08/12	Water/West Tank	8	NS	NS	NS	NS	4590	NS	NS
08/08/12	Background 1	9	NS	NS	NS	NS	1.68	NS	NS
08/08/12	Background 2	10	NS	NS	NS	NS	3.18	NS	NS
08/08/12	Background 3	1.1	NS	NS	NS	NS	17.1	NS	NS
作。更赞"源	· · · · · · · · · · · · · · · · · · ·	Mary Mary 1	92 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			a de la companya de l	The state of the state of	4 7 3	机头面 拉汉
09/17/12	Section 1	1	NS	NS	NS	NS	2170	NS	NS
09/17/12	Section 2	2	NS	NS	NS	NS	1670	NS	NS
09/17/12	Section 3	3	NS	NS	NS	NS	21.7	NS	NS
09/17/12	Section 4	4	NS	NS	NS	NS	11.8	NS	NS
09/17/12	Section 5	5	NS	NS	NS	NS	9.6	NS	NS
群、八字灣	野海 高量 (1277年1月14日) 47年 47日	14. "上述的事"		2 12 15 8/21 (1886)	SESTIMATES EL	Michael C. M. Az			eltementarie
10/17/12	Section 1	1	NS	NS	NS	NS	526	NS	NS
10/17/12	Section 2	2	NS	NS	NS	NS	954	NS	NS
et arkanij	建筑等的企业等方面。无理的基础的	SIPY 编点	Patrick Williams	を表現を表現と発	"如何,为非 权 "。	at the box of	strates n	在在日本中共同的	軟料等量的。
11/17/12	Section 1	1	NS	NS	NS	NS	978	NS	NS
11/17/12	Section 2	2	NS	NS	NS	NS	899	NS	NS

*Values in BOLD above regulatory limits
*Closure Sample

*NS - Parameter not sampled *ND - Parameter not detected

Table 1, Summäry of Analytical Results ConocoPhillips San Juan 30-6 #471 Spill Assessment Report Project Number 92115-2245

			بنينتهم						
Date	Sample Description	Sample Number	PID OV (ppm)		USEPA Method 8015 TPH (ppm)	Field Chlorides (ppm)	Total Chloride USEPA Method 4500B (ppm)		ethod 8021 BTEX (ppm)
ÑÃ	NMOCD Standards/*NMED *			1000	1000	NA .	South and the second se		PROBLET STATE
NA NA	Drinking Water Standard	NA:	100	1000	1.000	NA NA	250	10	編集50集計
01/16/13	Section 1	1	NS	NS	NS	NS	1250	NS	NS
01/16/13	Section 2	2	NS	NS	NS	NS _	1600	NS	ND
		\$	克莱·克格·克莱	· L'étal Estata	and of stable	建筑长1477大水	的基準的基準的		ND.
02/05/13	Section 1	1	NS	NS	NS	NS	ND	NS	ND
02/05/13	Section 2	2	NS	NS	NS	NS	153	NS	ND
02/05/13	Section 3	3	NS	NS	NS	NS	ND	NS	ND
02/05/13	Section 4	4	NS	NS	NS	NS	ND	NS	NS
02/05/13	section 5	5	NS	NS	NS	NS	ND	NS	NS
02/05/13	Spill Way	6	NS	. NS	NS	NS	ND	NS	NS
02/05/13	West of ASTs	7	NS	NS	NS	NS	ND	NS	NS

^{*}Values in BOLD above regulatory limits
*Closure Sample:

*NS - Parameter not sampled *ND - Parameter not detected

APPENDIX A

Analytical Results



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

ConocoPhillips

Project #:

92115-2245

Sample No.:

1

Date Reported:

8/29/2012

Sample ID:

Source Composite

Q

8/8/2012

Sample Matrix:

Soil

Date Sampled:
Date Analyzed:

8/8/2012

Preservative:

Cool

Analysis Needed:

TPH-418:1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

116

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 30-6 #471 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Analyst

Christopher Arrigo

Printed

Heview

Felipe Aragon



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Sample No.:

Sample ID:

Sample Matrix:

Preservative:

Condition:

ConocoPhillips

2 Section 1

Soil Cool

Cool and Intact

Project #:

Date Reported:

92115-2245 8/29/2012

Date Sampled:

8/8/2012

Date Analyzed:

8/8/2012

Analysis Needed:

TPH-418.1

	the control of the co
그래요 그는 사람들은 사람들이 얼마나 아니는 사람들이 되었다. 그 그래요 그 사람들이 되고 있다면 하고 있다면 하는 것이다. 그 그 그리고 있다면 하는 것이다.	
	 A place of the place of the part of the p
LONG LL PRO MAN PRANTANTANTANTANTANTANTANTANTANTANTANTANTA	ひょうじゅう ひと きん もっしょうしゅ チャー・ド・・・・ かんりょく しょく しょくしょく
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	r a call le caller le recent de la leve de la recent de la
	and the probability of the first of the contract of the contra
arameter (ma/l-1)	

Total Petroleum Hydrocarbons

144

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 30-6 #471 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Christopher Arrigo

Printed

Felipe Aragon





EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Sample No.:

Sample ID:

Sample Matrix:

Preservative:

Condition:

ConocoPhillips

Section 2

Soil Cool

Cool and Intact

Project #:

Date Reported:

Date Sampled: Date Analyzed:

Analysis Needed:

8/8/2012 8/8/2012

TPH-418.1

92115-2245

8/29/2012

17.17.17.17.17.17.17.17.17.17.17.17.17.1		
		aktini kata mayana vet. Bata
		오루를 하는 아름은 아름은 살이 살을 때문이 살았다.
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Parameter	(ma/ka)	요하다 그 교육적인 기상으로 하는 사람들은 사회 기가운 없는 개작하는 경상 기상
V diditiotor		(ma/ka)

Total Petroleum Hydrocarbons

164

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 30-6 #471 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Christopher Arrigo

Printed

Felipe Aragon





CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal	Ŋα	to.

8-Aug-12

Paramete	Standard Concentration	Concentration Reading mg/L	
TPH	100		
	200	198	
	500		
	1000		

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

Analyst

8/29/2012

Christopher Arrigo

8/29/2012 Date

Date

Felipe Aragon

Print Name



Field Chloride

Client:

ConocoPhillips

4

Sample No.: Sample ID:

Source Comp

Sample Matrix:

Soil

Preservative: Condition:

Cool

Cool and Intact

Project #:

92115-2245

Date Reported:

8/29/2012

Date Sampled:

8/8/2012

Date Analyzed:

8/8/2012

Analysis Needed:

Chloride

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

593

32.0

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:

San Juan 30-6 #471

Analyst

Christopher Arrigo

Printed

Review

Felipe Aragon





Field Chloride

Client:

ConocoPhillips

Project #: Date Reported: 92115-2245

Sample No.:

8/29/2012

Sample ID:

Section 1

Sample Matrix:

Date Sampled: Date Analyzed: 8/8/2012

Preservative:

Soil Cool

Analysis Needed:

8/8/2012 Chloride

Condition:

Cool and Intact

Det: Concentration Limit			
Concentration			
Limit Concentration			
	 If additional filters is a fundament 	Concentr	
		영어가 가는 생활한 것 같다. 그 가는 얼마를 하는 것 같다. 그 그 모든 얼마를 다	
(mg/kg) (mg/kg)			(maile)

Field Chloride

>639

32.0

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:

San Juan 30-6 #471

Christopher Arrigo

Printed

Felipe Aragon





Field Chloride

Client:

Sample No.: Sample ID:

Section 2

Sample Matrix: Preservative:

Condition:

ConocoPhillips

Soil

Cool

Cool and Intact

Project #:

92115-2245

Date Reported: Date Sampled:

8/29/2012

Date Analyzed:

8/8/2012 8/8/2012

Analysis Needed:

Chloride

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rainietei			mg/kg)	(mg/kg)
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Field Chloride

>639

32.0

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:

San Juan 30-6 #471

Analyst

Christopher Arrigo

Printed

Felipe Aragon





Report Summary

Client: ConocoPhillips

Chain of Custody Number: 14215

Samples Received: 08-09-12

Job Number: 92115-2245

Sample Number(s): 62912-62913

Project Name/Location: Spill Assessment/ San Juan 30-6 #471

Entire Report Reviewed By: Aune 3489
Date: 08-13-12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.





Chloride

Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Water/Section 1 62912

Date Reported:

08-10-12

Lab ID#: Sample Matrix:

Aqueous

Date Sampled: Date Received: 08-08-12 08-09-12

Preservative:

Cool

Date Analyzed:

08-09-12

Condition:

Intact

Chain of Custody:

14215

Parameter

Concentration (mg/Kg)

Total Chloride

4,860

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:





Chloride

Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Water/West Tank

Date Reported:

08-10-12

Lab ID#:

62913

Date Sampled:

08-08-12

Sample Matrix:

Aqueous

Date Received:

08-09-12

Preservative:

Cool

Date Analyzed:

08-09-12

Condition:

Intact

Chain of Custody:

14215

Parameter

Concentration (mg/Kg)

Total Chloride

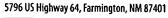
4,590

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:





Rush

CHAIN OF CUSTODY RECORD

14215

ACMINI.	Client: Concoshillips		Pro	Project Name / Location: Sp NASSSSMent / San Jan. 30-			ANALYSIS / PARAMETERS																
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	FAragon)		F. Araya	10/0	- 1		C \		(Method 8015)	8021	260)											}
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	Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Vo of Cont	olume tainers	Pr HgCl ₂	eserva HCI	live Cuo\	v) на⊥	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	고	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample	Sample Intact
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	- Am	<u> </u>			8-9-12				نن			<u>√.</u> ~	<u> </u>	L	<u></u>		 -				8 plr	9	29
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Report Summary

Client: ConocoPhillips

Chain of Custody Number: 14214

Samples Received: 08-09-12

Job Number: 92115-2245

Sample Number(s): 62904-62911

Project Name/Location: Spill Assessment/ San Juan 30-6 #471

Entire Report Reviewed By: \(\lambda \text{Que ZFF} \) Date: \(\text{D8-13-PC} \)

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.





Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 1	Date Reported:	08-09-12
Laboratory Number:	62904	Date Sampled:	08-08-12
Chain of Custody No:	14214	Date Received:	08-09-12
Sample Matrix:	Soil	Date Extracted:	08-09-12
Preservative:	Cool	Date Analyzed:	08-09 - 12
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:





Client:	CanasaDhillina	Deck of	
	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 2	Date Reported:	08-09 - 12
Laboratory Number:	62905	Date Sampled:	08-08-12
Chain of Custody No:	14214	Date Received:	08-09-12
Sample Matrix:	Soil	Date Extracted:	08-09-12
Preservative:	Cool	Date Analyzed:	08-09-12
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:





Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 3	Date Reported:	08-09-12
Laboratory Number:	62906	Date Sampled:	08-08-12
Chain of Custody No:	14214	Date Received:	08-09-12
Sample Matrix:	Soil	Date Extracted:	08-09-12
Preservative:	Cool	Date Analyzed:	08-09-12
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:





Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 4	Date Reported:	08-09-12
Laboratory Number:	62907	Date Sampled:	08-08-12
Chain of Custody No:	14214	Date Received:	08-09-12
Sample Matrix:	Soil	Date Extracted:	08-09-12
Preservative:	Cool	Date Analyzed:	08-09-12
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:





Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 5	Date Reported:	08-09-12
Laboratory Number:	62908	Date Sampled:	08-08-12
Chain of Custody No:	14214	Date Received:	08-09-12
Sample Matrix:	Soil	Date Extracted:	08-09-12
Preservative:	Cool	Date Analyzed:	08-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg <u>)</u>	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:





Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0809TCAL QA/QC	Date Reported:	08-09-12
Laboratory Number:	62888	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-09-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	€-Cal-RF:	% Difference	Accept: Range
Gasoline Range C5 - C10	08-09-12	9.9960E+02		0.04%	0 - 15%
Diesel Range C10 - C28	08-09-12	9.9960E+02	1.0000E+03	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
Total Petroleum Hydrocarbons	ND	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	1,500	1,560	4.0%	0 - 30%
Diesel Range C10 - C28	116	125	7.3%	0 - 30%

Spike Conc. (mg/Kg)		Spike Added	Spike Result	% Recovery	Accept: Range
Gasoline Range C5 - C10	1,500	250	1,470	84.0%	75 - 125%
Diesel Range C10 - C28	116	250	322	88.0%	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 62826-62827, 62830-62834, 62888-62890, 62902 and

62904-62908





EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 1	Date Reported:	08-09-12
Laboratory Number:	62904	Date Sampled:	08-08-12
Chain of Custody:	14214	Date Received:	08-09-12
Sample Matrix:	Soil	Date Analyzed:	08-09-12
Preservative:	Cool	Date Extracted:	08-09-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

	Dilution:	50	
		Det.	
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	ND	10.0	
Toluene	ND	10.0	
Ethylbenzene	ND	10.0	
p,m-Xylene	ND	10.0	
o-Xylene	ND	10.0	
Total BTEX	ND		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	87.3 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	87.7 %

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:





EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 2	Date Reported:	08-09-12
Laboratory Number:	62905	Date Sampled:	08-08-12
Chain of Custody:	14214	Date Received:	08-09-12
Sample Matrix:	Soil	Date Analyzed:	08-09-12
Preservative:	Cool	Date Extracted:	08-09-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

	Dilution:	50
		Det.
	Concentration	Limit
Parameter	(ug/Kg)	(ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	85.9 %
	1,4-difluorobenzene	97.2 %
	Bromochlorobenzene	97.1 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

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

USEPA, December 1996.

Comments:





EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 3	Date Reported:	08-09-12
Laboratory Number:	62906	Date Sampled:	08-08-12
Chain of Custody:	14214	Date Received:	08-09-12
Sample Matrix:	Soil	Date Analyzed:	08-09-12
Preservative:	Cool	Date Extracted:	08-09-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

	Dilution:	50
		Det.
	Concentration	Limit
Parameter	(ug/Kg)	(ug/Kg)
Benzene	ND	· 10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	82.7 %
	1,4-difluorobenzene	93.4 %
	Bromochlorobenzene	89.8 %

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:





EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

1			D - 4
		Dilution:	50
Condition:	Intact	Analysis Requested:	BTEX
Preservative:	Cool	Date Extracted:	08-09-12
Sample Matrix:	Soil	Date Analyzed:	08-09-12
Chain of Custody:	14214	Date Received:	08-09-12
Laboratory Number:	62907	Date Sampled:	08-08-12
Sample ID:	Section 4	Date Reported:	08-09-12
Client:	ConocoPhillips	Project #:	92115-2245

		Det.	
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	ND	10.0	
Toluene	ND	10.0	
Ethylbenzene	ND ·	10.0	
p,m-Xylene	ND	10.0	
o-Xylene	ND	10.0	
Total BTEX	ND		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	84.6 %
	1,4-difluorobenzene	95.3 %
	Bromochlorobenzene	86.2 %

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:





EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 5	Date Reported:	08-09-12
Laboratory Number:	62908	Date Sampled:	08-08-12
Chain of Custody:	14214	Date Received:	08-09-12
Sample Matrix:	Soil	Date Analyzed:	08-09-12
Preservative:	Cool	Date Extracted:	08-09-12
Condition:	Intact	Analysis Requested:	BTËX
	•	Dilution:	50

	Dilution:	50
•		Det.
e Si	Concentration	Limit
Parameter	(ug/Kg)	(ug/Kg)
X X		
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	84.6 %
	1,4-difluorobenzene	94.5 %
	Bromochlorobenzene	102 %

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:





EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

	uni sun									
Client:	N/A		Project #:		N/A					
Sample ID:	0809BCAL QA/	QC	Date Reported:		08-09-12					
Laboratory Number:	62890		Date Sampled:		N/A					
Sample Matrix:	Soil		Date Received:		N/A					
Preservative:	N/A		Date Analyzed:		08-09-12					
Condition:	N/A		Analysis:		BTEX					
			Dilution:	50						
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.					
Detection Limits (ug/L)		Accept Range 0-15	Ŷ6	Conc	Limit					
Benzene	8.0634E-06	8.0634E-06	0.000	ND	0.2					
Toluene	7.2703E-06	7.2703E-06	0.000	ND	0.2					
Ethylbenzene	8.0138E-06	8.0138E-06	0.000	ND	0.2					
p,m-Xylene	5.8385E-06 5.8385E-06		0.000	ND	0.2					
o-Xylene	8.4652E-06	8.4652E-06	0.000	ND	0.2					

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect: Limit
Benzene	ND	ND	0.00	0 - 30%	10
Toluene	ND	ND	0.00	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	79.3	81.2	0.02	0 - 30%	10
o-Xylene	66.9	66.6	0.00	0 - 30%	10

Spike Conc. (ug/Kg)	Sample, Amo	unt Spiked Spik	ed Sample. % F	Recovery	Accept Range
Benzene	ND	2500	2620	105	39 - 150
Toluene	ND	2500	2600	104	46 - 148
Ethylbenzene	ND	2500	2560	102	32 - 160
p,m-Xylene	79.3	5000	5170	102	46 - 148
o-Xylene	66.9	2500	2660	104	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:

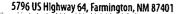
Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

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 62888-62890, 62902 and 62904-62908



Ph (505) 632-0615 Fx (505) 632-1865





Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Section 1

Date Reported:

08-10-12

Lab ID#:

62904 Soil

Date Sampled:

08-08-12

Sample Matrix: Preservative:

Cool

Date Received:

08-09-12

Date Analyzed:

08-09-12

Condition:

Intact

Chain of Custody:

14214

Parameter

Concentration (mg/Kg)

Total Chloride

1,540

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:





Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Section 2

Date Reported:

08-10-12

Lab ID#:

62905

Date Sampled:

08-08-12

Sample Matrix:

Soil

Date Received:

08-09-12

Preservative:

Cool

Date Analyzed:

08-09-12

Condition:

Intact

Chain of Custody:

14214

Parameter

Concentration (mg/Kg)

Total Chloride

1,500

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:

Spill Assessment/ San Juan 30-6 #471

envirotech-inc.com

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301



ConocoPhillips 92115-2245 Client: Project #: Sample ID: Section 3 Date Reported: 08-10-12 Lab ID#: 62906 Date Sampled: 08-08-12 Sample Matrix: Soil Date Received: 08-09-12 Preservative: Cool Date Analyzed: 08-09-12 Condition: Intact Chain of Custody: 14214

Parameter Concentration (mg/Kg)

Total Chloride

1,240

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:





Client: Sample ID: ConocoPhillips

Project #:

92115-2245

Sample ID Lab ID#: Section 4 62907 Date Reported:
Date Sampled:

08-10-12

Sample Matrix:

Soil

Date Received:

08-08-12

Preservative:

Cool

Date Analyzed:

08-09-12 08-09-12

Condition:

Intact

Chain of Custody:

14214

Parameter

Concentration (mg/Kg)

Total Chloride

838

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:



Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Section 5 62908

Date Reported:

08-10-12

Lab ID#: Sample Matrix:

Soil

Date Sampled:

08-08-12

Preservative:

Date Received:

08-09-12

Cool

Date Analyzed:

08-09-12

Condition:

Intact

Chain of Custody:

14214

Parameter

Concentration (mg/Kg)

Total Chloride

247

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:





Client: Sample ID: ConocoPhillips

Project #:

92115-2245

Lab ID#:

Background 1

Date Reported:

08-10-12

Sample Matrix:

62909 Soil

Date Sampled:

08-08-12

Preservative:

Cool

Date Received:

08-09-12

Condition:

Date Analyzed:

08-09-12

Intact

Chain of Custody:

14214

Parameter

Concentration (mg/Kg)

Total Chloride

1.68

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:







Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Background 2 62910

Date Reported:

08-10-12

Lab ID#: Sample Matrix:

Soil

Date Sampled:

08-08-12

Preservative:

Date Received:

08-09-12

Cool

Date Analyzed:

08-09-12

Condition:

Intact

Chain of Custody:

14214

Parameter

Concentration (mg/Kg)

Total Chloride

3.18

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:





Client: Sample ID: ConocoPhillips

Project #:

92115-2245

Background 3

Date Reported:

08-10-12

Lab ID#: Sample Matrix: 62911

Date Sampled:

08-08-12

Preservative:

Soil

Date Received:

08-09-12

Cool

Date Analyzed:

08-09-12

Condition:

Intact

Chain of Custody:

14214

Parameter

Concentration (mg/Kg)

Total Chloride

17.1

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:



CHAIN OF CUSTODY RECORD

14214

Client:			Project Name / Location: Si N Assessment Lan Down 30-6#						ANALYSIS / PARAMETERS													:	
Email results to: Client Phone No.:		Sar	mpler Name: Arcescul / ent No.: 92//5						TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	118.1)	RIDE				Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./	Volume Intainers		eservati HCI		трн (М	втех) 00 1	RCRA	Cation	교	TCLP	со Та	TPH (418.1)	CHLORIDE		* * ********		Sampl	Sampl
Section 1	8-8-12		42904	1-4	102			*	X	本								X				X	X
Section 2		18:05	62905																				
Section 3		1815	62906																				
Section 4			122107																				
Section 5		18.25	W 29108						X	X													
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Relinquished by: (Signature))					Receiv	ed by	y: (Si	gnatu	ıre)			_	J									
Sample Matrix Soil Solid Sludge	Aqueous [] Other []					tersi Lucio Sign	i ingi		:: 1			к;	:									
☐ Sample(s) dropped off after.					Anal	ytica	l Lai	bora	itory		<i>y</i> rang	o, CC	D 813	01 • 1	abor	atory	@en\	<i>i</i> rote	ch-ine	c.con	n		



Report Summary

Client: ConocoPhillips

Chain of Custody Number: 14449

Samples Received: 09-17-12

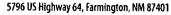
Job Number: 92115-2245

Sample Number(s): 63246-63250

Project Name/Location: Chloride Confirmation Sample/ San Juan 30-6 #471

Entire Report Reviewed By: Date: 09-18-12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.





Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Section #1

Date Reported:

09-18-12

Lab ID#:

63246

Date Sampled:

09-17-12

Sample Matrix:

Soil

Date Received:

09-17-12

Preservative:

Cool

Date Analyzed:

09-18-12

Condition:

Intact

Chain of Custody:

14449

Parameter

Concentration (mg/Kg)

Total Chloride

2,170

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:





Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Section #2

Date Reported:

09-18-12

Lab ID#:

63247

Date Sampled:

09-17-12

Sample Matrix:

Soil

Date Received:

09-17-12

Preservative:

Cool

Date Analyzed:

09-18-12

Condition:

Intact

Chain of Custody:

14449

Parameter

Concentration (mg/Kg)

Total Chloride

1,670

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:







Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Section #3

Date Reported:

09-18-12

Lab ID#:

63248

Date Sampled:

09-17-12

Sample Matrix:

Soil

Date Received:

09-17-12

Preservative:

Cool

Date Analyzed:

09-18-12

Condition:

Intact

Chain of Custody:

14449

Parameter

Concentration (mg/Kg)

Total Chloride

21.7

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:





Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Section #4

Date Reported:

09-18-12

Lab ID#:

63249

Date Sampled:

09-17-12

Sample Matrix: Preservative:

Soil

Date Received:

09-17-12

Cool

Date Analyzed:

09-18-12

Condition:

Intact

Chain of Custody:

14449

Parameter

Concentration (mg/Kg)

Total Chloride

11.8

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:





Client:

ConocoPhillips

92115-2245

Sample ID:

Section #5

Project #: Date Reported:

Lab ID#:

63250

09-18-12

Sample Matrix:

Soil

Date Sampled: 09-17-12

Preservative:

Cool

Date Received: Date Analyzed: 09-17-12 09-18-12

Condition:

Intact

Chain of Custody:

14449

Parameter

Concentration (mg/Kg)

Total Chloride

9.6

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:



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CHAIN OF CUSTODY RECORD

14449

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Email results to:		Sai	The Name.)						BTEX (Method 8021)					•	-							
Client Phone No.		Clie	Client No.: 921/5-2245					TPH (Method 8015)	(Methoc	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	118.1)	RIDE	Act Land			e Cool	Sample Intact	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No.	Volume Intainers	Pi HgCl ₂	eserva HCI	tive \	TPH (I	BTEX	Voc (RCRA	Cation	E E	TCLP	со та	TPH (418.1)	CHLORIDE		1		Sample Cool	Sampl
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Report Summary

Client: ConocoPhillips

Chain of Custody Number: 14562

Samples Received: 10-18-12

Job Number: 92115-2245

Sample Number(s): 63481-63482

Project Name/Location: Confirmation Sample/ San Juan 30-6 #471

Entire Report Reviewed By:

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



Date: 10/24/12



Client:

ConocoPhillips

•

92115-2245

Sample ID:

Section 1

Date Reported:

Project #:

10-19-12

Lab ID#:

63481

Date Sampled:

10-17-12

Sample Matrix:

Soil

Date Received:

10-18-12

Preservative:

Cool

Date Analyzed:

10-18-12

Condition:

Intact

Chain of Custody:

14562

Parameter

Concentration (mg/Kg)

Total Chloride

526

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:

Confirmation Sample/ San Juan 30-6 #471





Client: Sample ID: ConocoPhillips

Project #: 92115-2245

Sample ID: Lab ID#: Section 2 63482 Date Reported:

Date Sampled:

10-19-12 10-17-12

Sample Matrix:

Soil

Date Received:

10-18-12

Preservative:

Cool

Date Analyzed:

10-18-12

Condition:

Intact

Chain of Custody:

14562

Parameter

Concentration (mg/Kg)

Total Chloride

954

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:

Confirmation Sample/ San Juan 30-6 #471



Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879



14562

CHAIN OF CUSTODY RECORD

Client: 10-10-11-1	ject Name / Location	on:	n 41.	Tac	ا اگر برن	7-6	A	47	7/	Α	NALY	/SIS	/ PAF	RAME	TER	S		\$			
Email results to:		Sai	mpler Name:				3	1	(Method 8021)		, s			ď	9-1				·	100	×
Client Phone No.:	re. Filge sel	Clie	ent No.: 3211	5-2245				TPH (Method 8015)	(Metho	VOC (Method 8260)	8 Metals	Cation / Anion		with H/P	CO Table 910-1	TPH (418.1)	RIDE			ole Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Łab No.	No:/Volume of Containers	P HgCl ₂	reserval HCI	(CU	тРН (втех (VOC	RCRA	Cation	RCI	TCLP	CO T	TPH	CHLORID			Sample	Sam
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Report Summary

Client: ConocoPhillips

Chain of Custody Number: 14684

Samples Received: 11-19-12

Job Number: 92115-2245

Sample Number(s): 63742-63743

Project Name/Location: Confirmation Sampling/ San Juan 30-6 #471

Entire Report Reviewed By:

Date: 1/28//2

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.





Client: ConocoPhillips Project #: 92115-2245 11-27-12 Sample ID: Section 1 Date Reported: 63742 Date Sampled: 11-19-12 Lab ID#: Date Received: Sample Matrix: Soil 11-19-12 Date Analyzed: 11-26-12 Preservative: Cool Condition: Intact Chain of Custody: 14684

Parameter Concentration (mg/Kg)

Total Chloride

978

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:

Confirmation Sampling/ San Juan 30-6 #471





Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 2	Date Reported:	11-27-12
Lab ID#:	63743	Date Sampled:	11-19-12
Sample Matrix:	Soil	Date Received:	11-19-12
Preservative:	Cool	Date Analyzed:	11-26-12
Condition:	Intact	Chain of Custody:	14684

Parameter

Concentration (mg/Kg)

Total Chloride

899

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:

Confirmation Sampling/ San Juan 30-6 #471



14684

CHAIN OF CUSTODY RECORD

Clienty Concolh 11, ps			Project Name / Location:						6 F	ty.	7/	1A	NALY	'SIS /	PAR	AME	TER	s		-	
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Client Phone No.:		Clie	nt No ·	22 45		. * 1. ** 2. ***		TPH (Method 8015)	(Metho	VOC (Method 8260)	RCRA 8 Metals	Cation / Anlon		TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	P HgCl ₂	reserva HCI	tive (co)	трн (втех	VOC	RCR/	Catio	EC.	TCLP	00	TPH	SHC			Sam	Sam
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Report Summary

Client: ConocoPhillips

Chain of Custody Number: 15070

Samples Received: 01-16-13

Job Number: 92115-2245

Sample Number(s): 64110-64111

Project Name/Location: Chloride Sample/San Juan 30-6 #471

Entire Report Reviewed By:

Date: 1/24/13

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.





Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Section 1

Date Reported:

01-23-13

Lab ID#:

64110

Date Sampled:

01-16-13

Sample Matrix:

Soil

Date Received:

01-16-13

Preservative:

Cool

Date Analyzed:

01-22-13

Condition:

Intact

Chain of Custody:

15070

Parameter

Concentration (mg/Kg)

Total Chloride

1,250

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:

Chloride Sample/San Juan 30-6 #471





Client:

ConocoPhillips

Project #:

92115-2245

Sample ID:

Section 2

Date Reported:

01-23-13

Lab ID#:

64111

Date Sampled:

01-16-13

Sample Matrix: Preservative:

Soil Cool

Date Received:

01-16-13

Condition:

Cool

Date Analyzed: Chain of Custody: 01-22-13 15070

Concentration (mg/Kg)

Total Chloride

Parameter

1,600

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:

Chloride Sample/San Juan 30-6 #471



15070

CHAIN OF CUSTODY RECORD

Client: COPC		Pro	ject Name / Location h 10 m	on: /San . mole/30-6	Ju4 #4	n 71			*	•		Α	NALY	/SIS	/ PAF	RAME	TER	S			}	
Email results to: Clipe Client Phone No.:		Sar F	npler Name:		:			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	255 22.6	TCLP with H/P	CO Table 910-1	ТРН (418.1)	CHLORIDE			1000	Sample Cool	ole Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Pı HgCl ₂	eservat HCI	cool	трн (втех	VOC	RCRA	Cation	RCI	TCLP	00	TPH	콩			J. Co) da	Sample
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Sample Matrix Soil ☑ Solid ☐ * Sludge ☐	Aqueous [] Other □			 		<u></u>	44	·. ·									.				
Sample(s) dropped off after	1944. 1941. 1944. 1944. 19		f area.	Price Springs: 65	nav s	100			*.* 	uran	go, C	O 813	301 •	laboi	atory	∕@en\	virote	ch-inc.	.com		and an Vallage of	



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number: 15119
Samples Received: 2/5/2013 1:40:00PM

Job Number: 92115-2245 Work Order: P302016

Project Name/Location: Chloride Sample/San

Juan 30-6 #471

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

Date:

2/12/13

Supplement to analytical report generated on: 2/12/13 8:00 am

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.





ConocoPhillips
PO Box 2200

Bartlesville OK, 74005

Project Name:

Project Manager:

Chloride Sample/San Juan 30-6 #471

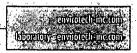
Project Number: 92115-2245

Felipe Aragon

Reported: 12-Feb-13 08:03

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 1	P302016-01A	Soil	02/05/13	02/05/13	Plastic Baggie
Section 2	P302016-02A	Soil	02/05/13	02/05/13	Plastic Baggie
Section 3	P302016-03A	Soil	02/05/13	02/05/13	Plastic Baggie
Section 4	P302016-04A	Soil	02/05/13	02/05/13	Plastic Baggie
Section 5	P302016-05A	Soil	02/05/13	02/05/13	Plastic Baggie
Spill Way	P302016-06A	Soil	02/05/13	02/05/13	Plastic Baggie
West of Ast's Comp	P302016-07A	Soil	02/05/13	02/05/13	Plastic Baggie





Project Name:

Chloride Sample/San Juan 30-6 #471

PO Box 2200

Project Number:

92115-2245

Reported:

Bartlesville OK, 74005

Project Manager:

Felipe Aragon

12-Feb-13 08:03

Section 1 P302016-01 (Solid)

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Project Number: Chloride Sample/San Juan 30-6 #471

Project Number: 92115-2245
Project Manager: Felipe Aragon

Reported: 12-Feb-13 08:03

Section 2 P302016-02 (Solid)

7	· 4.			R	eporting	4. ¹				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Analyte			Result	250	Limit Units	Dilution	Batch	Prepared	Analyzed	Method		Notes
Cation/An	ion Analysis			ż		٠.						
Chloride	And Williams	1965 X 1987	153	, 44	0.999 mg/kg	9.99	1307004	11-Feb-13	11-Feb-13	EPA 300.0	145. T	

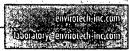
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Bartlesville OK, 74005

Project Name:

Chloride Sample/San Juan 30-6 #471

Project Number: Project Manager: 92115-2245 Felipe Aragon Reported:

12-Feb-13 08:03

Section 3 P302016-03 (Solid)

Analyte	Result		Dilution Batch	Prepared Analyzed	Method Notes
Cation/Anion Analysis					
Chloride	ND	1.00 mg/kg	10.00 1307004	11-Feb-13 11-Feb-13	EPA 300.0





PO Box 2200

Bartlesville OK, 74005

Project Name:

Chloride Sample/San Juan 30-6 #471

Project Number: Project Manager: 92115-2245 Felipe Aragon Reported:

12-Feb-13 08:03

Section 4 P302016-04 (Solid)

Analyte			F Result	Reporting Limit Units	Dilution Batch	Prepared Ar	ialyzed Method	Notes
 Cation/Anion Analys	İs	<u></u>						
Chloride			ND	0.999 mg/kg	9.99 1307004	11-Feb-13 11-	Feb-13 EPA 300.0	· · · · · · · · · · · · · · · · · · ·





PO Box 2200 Bartlesville OK, 74005 Project Name:

Chloride Sample/San Juan 30-6 #471

Project Number: Project Manager: 92115-2245

Felipe Aragon

Reported:

12-Feb-13 08:03

Section 5 P302016-05 (Solid)

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion	Analysis	 			<u> </u>					
Chloride		ND	1.00	mg/kg	10.00	1307004	11-Feb-13	11-Fcb-13	EPA 300.0	Site of the second





PO Box 2200

Bartlesville OK, 74005

Project Name:

Chloride Sample/San Juan 30-6 #471

Project Number: Project Manager: 92115-2245

Felipe Aragon

Reported:

12-Feb-13 08:03

Spill Way P302016-06 (Solid)

	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
•	Cation/Anion Analysis							-		
. (Chloride	ND	0.999	mg/kg	9.99	1307004	11-Feb-13	11-Feb-13	EPA 300.0	





ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name:

Chloride Sample/San Juan 30-6 #471

Project Number: Project Manager: 92115-2245 Felipe Aragon Reported: 12-Feb-13 08:03

West of Ast's Comp P302016-07 (Solid)

	Re	porting	-	
Analyte	Result	Limit Units Dilution	Batch Prepared Analyzed	l Method Notes
Cation/Anion Analysis				
Chloride	ND	0.999 mg/kg 9.99	1307004 11-Feb-13 11-Feb-13	EPA 300.0

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name:
Project Number:
Project Manager:

Chloride Sample/San Juan 30-6 #471

92115-2245 Felipe Aragon

Reported: 12-Feb-13 08:03

Notes and Definitions

DET Analyte Di

Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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CHAIN OF CUSTODY RECORD

15119

Client: CONOCO (A-//1/5) Email results tex		(oject Name / Locat	ion: npl.s	(Sen	Lies	. <i>30</i>	60	447	7/		r ·	Α	NAL	YSIS	/ PA	RAM	ETER	RS		- 4	200000000
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Client Phone Na		Cli	ent No.: 92115-Z	Z45		:	er V		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	18.1)	3IDE		:	Ec.	503
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APPENDIX B

Site Photography

CONOCOPHILLIPS SPILL ASSESSMENT DOCUMENTATION SAN JUAN 30-6 #471 (HBR) WELL SITE RIO ARRIBA COUNTY, NEW MEXICO PROJECT NUMBER: 92115-2245

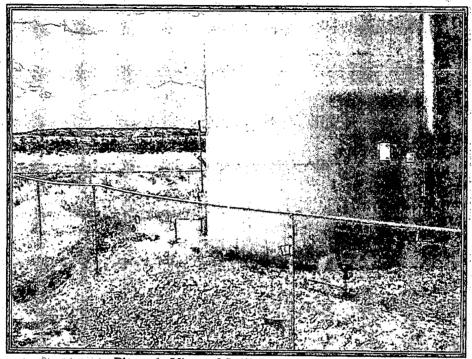


Photo 1: View of Spill Source Location

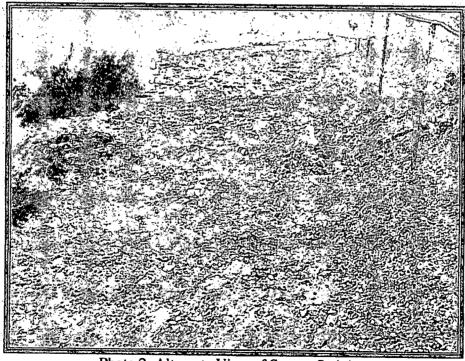


Photo 2: Alternate View of Source Staining

CONOCOPHILLIPS SPILL ASSESSMENT DOCUMENTATION SAN JUAN 30-6 #471 (HBR) WELL SITE RIO ARRIBA COUNTY, NEW MEXICO PROJECT NUMBER: 92115-2245



Photo 3: Western Facing View of Major Ponding and Spill-way



Photo 4: Eastern Facing View of Ponding and Spill-way

CONOCOPHILLIPS SPILL ASSESSMENT DOCUMENTATION SAN JUAN 30-6 #471 (HBR) WELL SITE RIO ARRIBA COUNTY, NEW MEXICO PROJECT NUMBER: 92115-2245



Photo 5: Eastern Facing View from Bottom of Wash

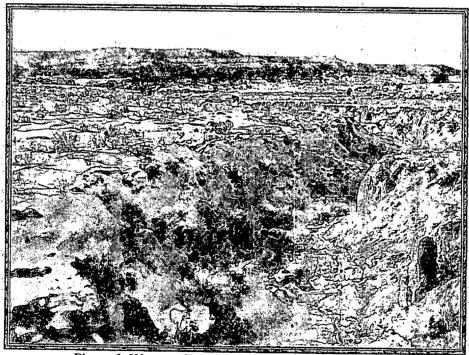


Photo 6: Western Facing View of Wash (1/16/2013)

CONOCOPHILLIPS SPILL ASSESSMENT DOCUMENTATION: SAN JUAN 30-6 #471 (HBR) WELL SITE RIO ARRIBA COUNTY, NEW MEXICO PROJECT NUMBER: 92115-2245

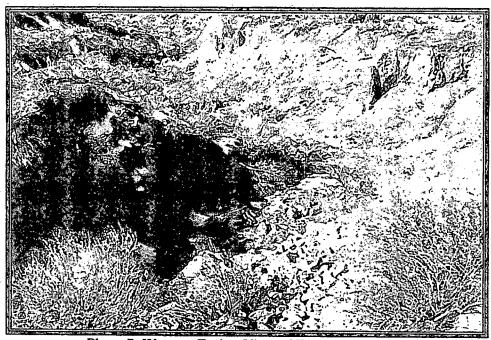


Photo 7: Western Facing View of Wash (2/05/2013)

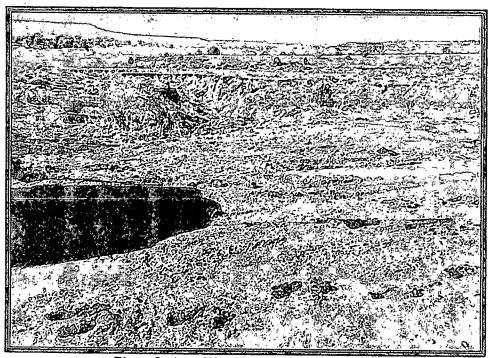


Photo 8: Area West of AST's (2/05/2013)