

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report


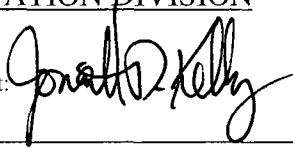
Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya	
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837	
Facility Name: San Juan 30-6 Unit 471	Facility Type: Gas Well	
Surface Owner BLM	Mineral Owner BLM (SF-080712-A)	API No. 30-039-24512

LOCATION OF RELEASE

Unit Letter K	Section 21	Township 30N	Range 6W	Feet from the 1820	North/South Line South	Feet from the 1430	East/West Line West	County Rio Arriba
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Latitude 36.79574 Longitude 107.47174

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 8 bbls	Volume Recovered None
Source of Release Water Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 8/8/2012 at 7:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell (OCD) & Mark Kelly (BLM)	
By Whom? Ashley Maxwell	Date and Hour 8/8/2012 at 9:15 am	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. 7 bbls entered an unnamed wash	
If a Watercourse was Impacted, Describe Fully.*		RCVD APR 2 '13 OIL CONS. DIV. DIST. 3
Describe Cause of Problem and Remedial Action Taken.* The base of a water tank developed a leak release 8bbls produced water, 0bbls were recovered. Fluid remaining in the tank was removed.		
Describe Area Affected and Cleanup Action Taken.* NMOCD action levels for releases are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 20. Samples were collected and periodic confirmation sampling for chlorides was requested and conducted until analytical results are below applicable NMOCD action levels. No further work will be performed. The final report is attached for review.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 9/24/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/1/2013 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

nJK 1326742573

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

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

Phone: (505) 215-8529

**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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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.

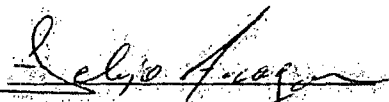
The undersigned has conducted this service at the above referenced site; this work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry and hydrogeology.

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

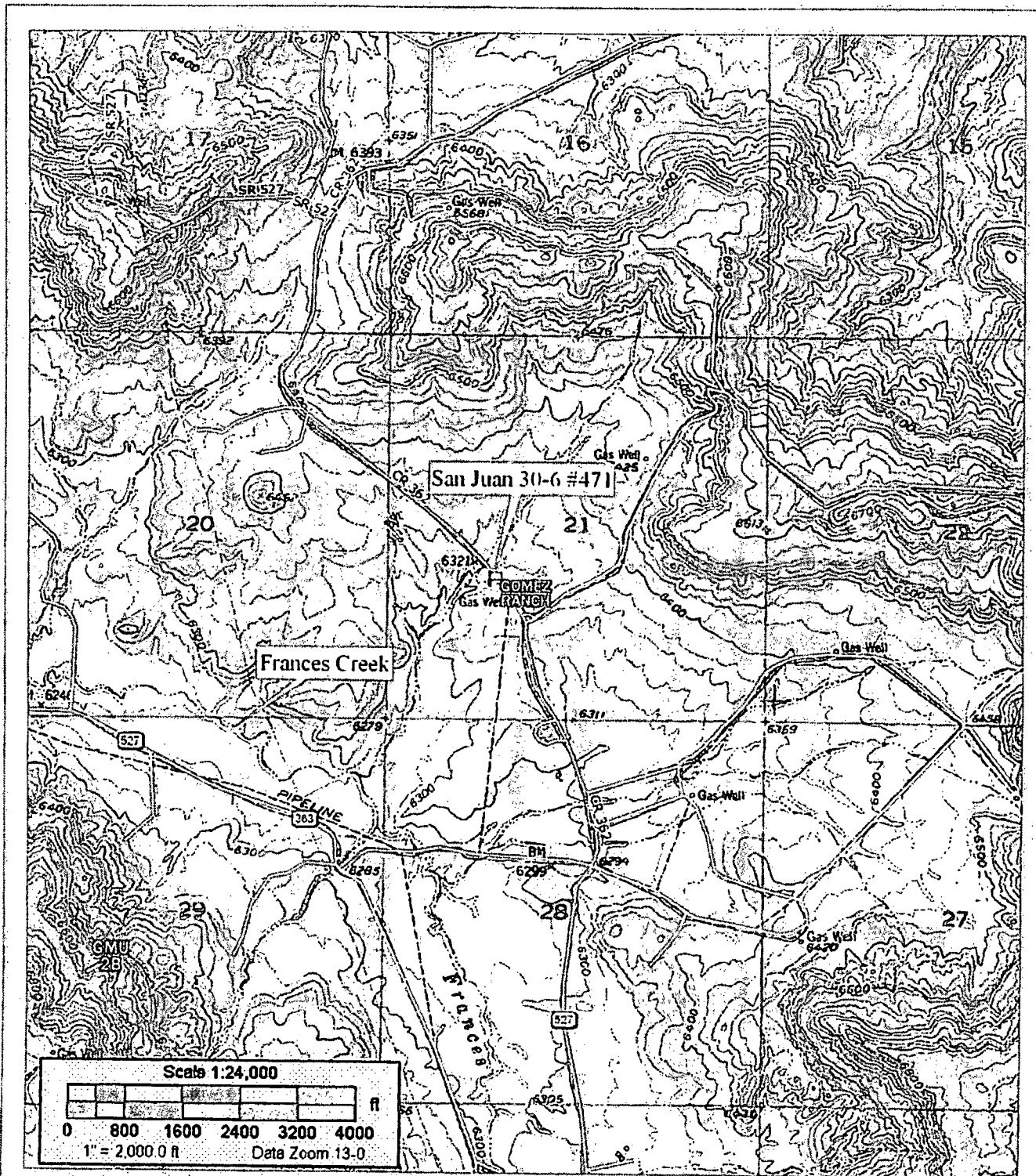


Greg Crabtree, PE
Environmental Manager
gcrabtree@envirotech-inc.com

FIGURES

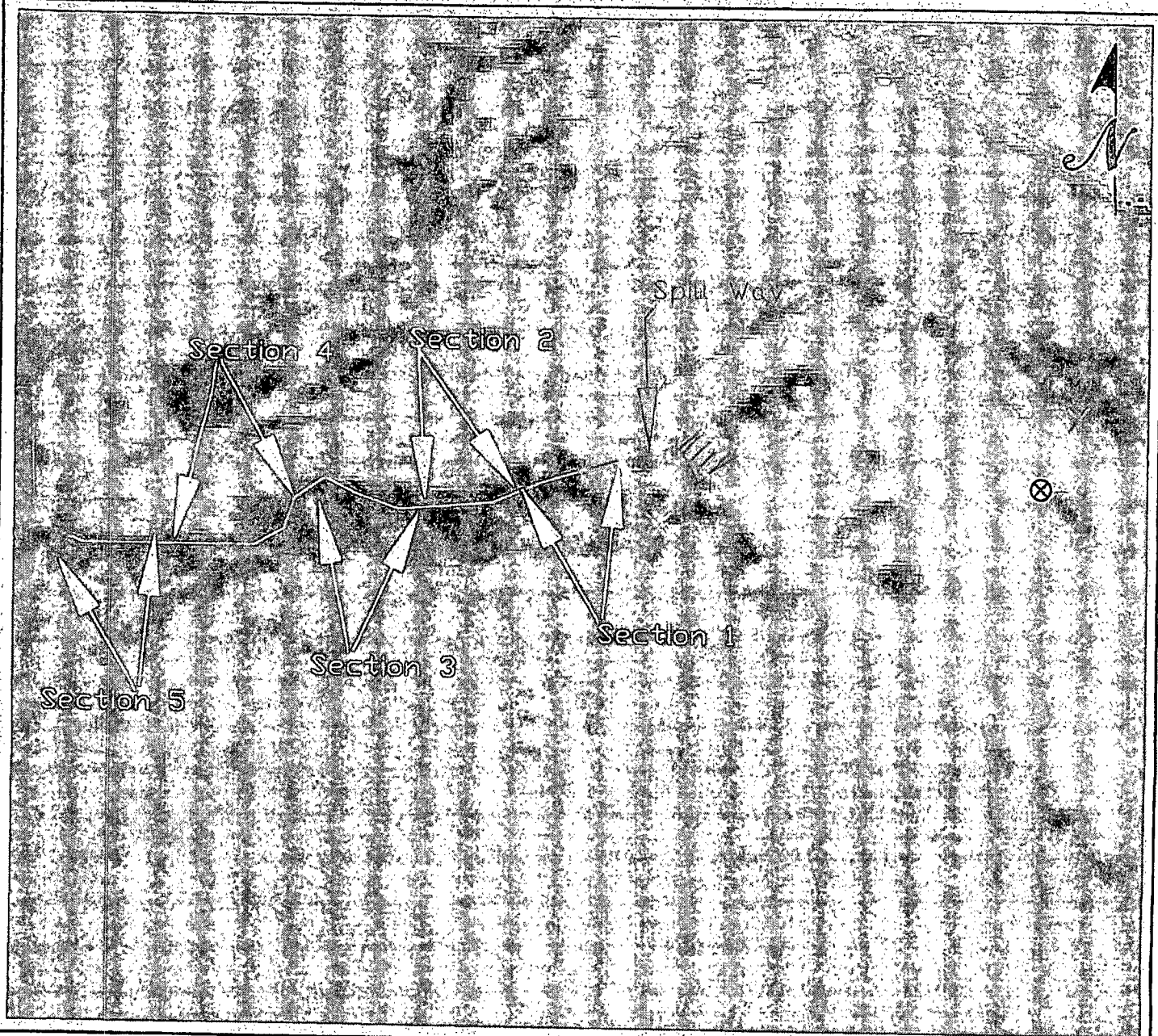
Figure 1, Vicinity Map

Figure 2, Site Map



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

<p>ConocoPhillips San Juan 30-6 #471 Section 21, Township 30N, Range 6W Rio Arriba County, New Mexico</p>	<p>envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS</p> <p>5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615</p>	<p>Spill Map</p>	
<p>PROJECT Number: 92115-2245 Date Drawn: 02/18/13</p>		<p>Figure #2</p> <p>DRAWN BY: Felipe Aragon PROJECT MANAGER: Greg Crabtree</p>	



Area West of AST's



WELLHEAD



Background Sample Locations

SITE MAP CONOCOPHILLIPS

San Juan 30-6 #471 (hBr)

Produced Water Spill Path

RIO ARRIBA COUNTY, NEW MEXICO

SCALE: NTS

PROJECT NO92115-2245

FIGURE NO. 2

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	FRA	2-18-13	BASE DRWN



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

Date	Sample Description	Sample Number	PID OV (ppm)	USEPA Method 418.1 TPH (ppm)	USEPA Method 8015 TPH (ppm)	Field Chlorides (ppm)	Total Chloride USEPA Method 4500B (ppm)	USEPA Method 8021	
								Benzene (ppm)	BTEX (ppm)
NA	NMOC Standards/*NMED Drinking Water Standard	NA	100	1000	1000	NA	250	10	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	11	NS	NS	NS	NS	17.1	NS	NS
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
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
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

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

*Closure Sample

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

Date	Sample Description	Sample Number	PID OV (ppm)	USEPA Method 418.1 TPH (ppm)	USEPA Method 8015 TPH (ppm)	Field Chlorides (ppm)	Total Chloride USEPA Method 4500B (ppm)	USEPA Method 8021	
								Benzene (ppm)	BTEX (ppm)
NA	NMOC Standards/NMED Drinking Water Standard	NA	100	1000	1000	NA	*250	10	50
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
									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 AST's	7	NS	NS	NS	NS	ND	NS	NS

*Values in **BOLD** above regulatory limits

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

*Closure Sample

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	Date Sampled:	8/8/2012
Sample Matrix:	Soil	Date Analyzed:	8/8/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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

Toni McHugh for
Analyst

Christopher Arrigo
Printed

Felipe Aragon
Review

Felipe Aragon
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 2
Sample ID: Section 1
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2245
Date Reported: 8/29/2012
Date Sampled: 8/8/2012
Date Analyzed: 8/8/2012
Analysis Needed: TPH-418.1

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

Total Petroleum Hydrocarbons	144	5.0
------------------------------	-----	-----

ND = Parameter not detected at the stated detection limit.

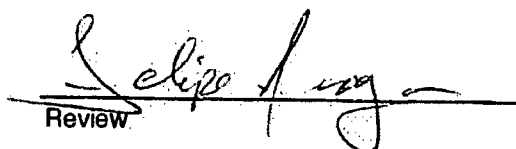
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 30-6 #471 (hBr)**

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


Analyst

Christopher Arrigo
Printed


Review

Felipe Aragon
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 3
Sample ID: Section 2
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2245
Date Reported: 8/29/2012
Date Sampled: 8/8/2012
Date Analyzed: 8/8/2012
Analysis Needed: TPH-418.1

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

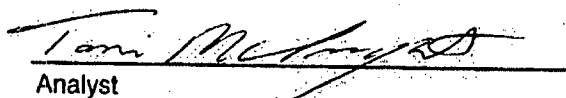
Total Petroleum Hydrocarbons	164	5.0
------------------------------	-----	-----

ND = Parameter not detected at the stated detection limit.

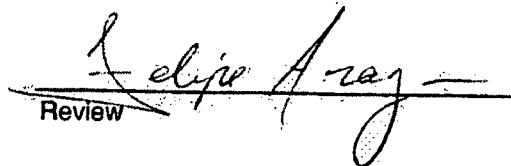
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 30-6 #471 (hBr)**

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


Analyst

Christopher Arrigo
Printed


Review

Felipe Aragon
Printed

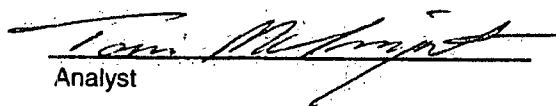


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 8-Aug-12

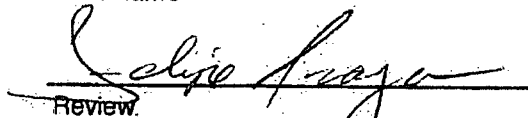
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	198
	200	
	500	
	1000	

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


Analyst

8/29/2012
Date

Christopher Arrigo
Print Name


Review

8/29/2012
Date

Felipe Aragon
Print Name



Field Chloride

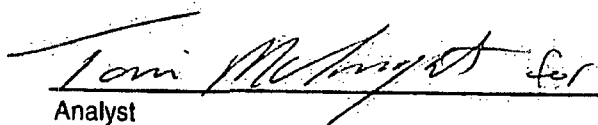
Client:	ConocoPhillips	Project #:	92115-2245
Sample No.:	1	Date Reported:	8/29/2012
Sample ID:	Source Comp	Date Sampled:	8/8/2012
Sample Matrix:	Soil	Date Analyzed:	8/8/2012
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	593	32.0

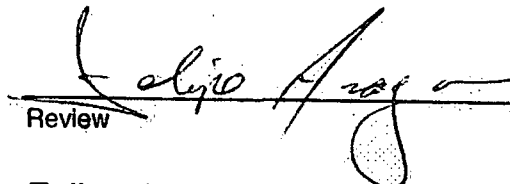
ND = Parameter not detected at the stated detection limit.

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
Printed



Field Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample No.:	2	Date Reported:	8/29/2012
Sample ID:	Section 1	Date Sampled:	8/8/2012
Sample Matrix:	Soil	Date Analyzed:	8/8/2012
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

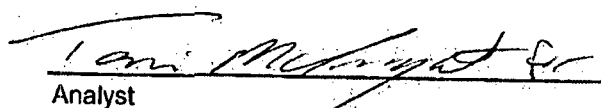
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Field Chloride	>639	32.0
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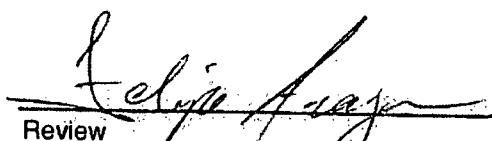
ND = Parameter not detected at the stated detection limit.

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
Printed



Field Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample No.:	3	Date Reported:	8/29/2012
Sample ID:	Section 2	Date Sampled:	8/8/2012
Sample Matrix:	Soil	Date Analyzed:	8/8/2012
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

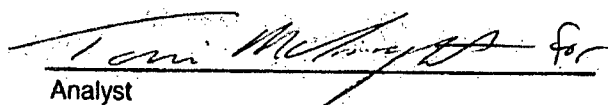
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Field Chloride	>639	32.0
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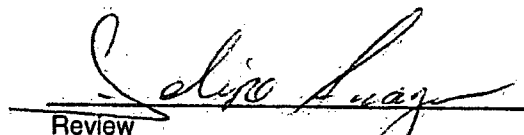
ND = Parameter not detected at the stated detection limit.

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
Printed



Report Summary

Client: ConocoPhillips

Chain of Custody Number: 14215

Samples Received: 08-09-12

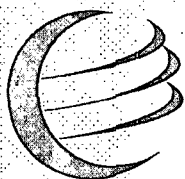
Job Number: 92115-2245

Sample Number(s): 62912-62913

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

Entire Report Reviewed By: *Dene Zia* 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.



envirotech

Analytical Laboratory

Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Water/Section 1	Date Reported:	08-10-12
Lab ID#:	62912	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	4,860

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: Spill Assessment/ San Juan 30-6 #471



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)
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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: **Spill Assessment/ San Juan 30-6 #471**

Rush

CHAIN OF CUSTODY RECORD

14215

Client: <u>Concepcion, I. P.</u>			Project Name / Location: <u>Spill Assessment / San Juan 30-6#471</u>			ANALYSIS / PARAMETERS														
Email results to: <u>F. Aragon</u>			Sampler Name: <u>F. Aragon / C. Arago</u>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
Client Phone No.:			Client No.: <u>92115-2245</u>																	
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative															
					HgCl ₂	HCl	(W)													
Water / Section 1	8-8-12	17:45	U02912	1-125ml			X												X	X
Water / West Tank	8-8-12	19:00	U02913	1-125ml			X												X	X
Relinquished by: (Signature) <u>[Signature]</u>					Date	Time	Received by: (Signature) <u>[Signature]</u>										Date	Time		
Relinquished by: (Signature) <u>[Signature]</u>					8/9/12	9:25	Received by: (Signature) <u>[Signature]</u>										8/9/12	9:28		
Sample Matrix																				
Soil <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Other <input type="checkbox"/>																				
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area. <u>Rush</u>																				





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: *Rene Zabin* 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.



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

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: **Spill Assessment/ San Juan 30-6 #471**



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

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 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: **Spill Assessment/ San Juan 30-6 #471**



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

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: **Spill Assessment/ San Juan 30-6 #471**



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

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: **Spill Assessment/ San Juan 30-6 #471**



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

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)	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: **Spill Assessment/ San Juan 30-6 #471**



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

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	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	08-09-12	9.9960E+02	1.0000E+03	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)	Sample	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

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

Parameter	Concentration (ug/Kg)	Det. Limit (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: Spill Assessment/ San Juan 30-6 #471



**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

Parameter	Concentration (ug/Kg)	Det. Limit (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: Spill Assessment/ San Juan 30-6 #471



**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

Parameter	Concentration (ug/Kg)	Det. Limit (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: **Spill Assessment/ San Juan 30-6 #471**



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

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:	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

Parameter	Concentration (ug/Kg)	Det. Limit (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: Spill Assessment/ San Juan 30-6 #471



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:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (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	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: Spill Assessment/ San Juan 30-6 #471



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

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 Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
	Accept Range 0-15%				
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

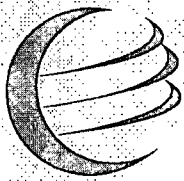
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2620	105	39 - 150
Toluene	ND	2500	2600	104	46 - 148
Ethylbenzene	ND	2500	2560	102	32 - 160
p,m-Xylene	79.3	5000	5170	102	46 - 148
o-Xylene	66.9	2500	2660	104	46 - 148

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



envirotech

Analytical Laboratory

Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 1	Date Reported:	08-10-12
Lab ID#:	62904	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)
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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: **Spill Assessment/ San Juan 30-6 #471**



Chloride

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



Chloride

Client:	ConocoPhillips	Project #:	92115-2245
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)
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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: **Spill Assessment/ San Juan 30-6 #471**



Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 4	Date Reported:	08-10-12
Lab ID#:	62907	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	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: **Spill Assessment/ San Juan 30-6 #471**



Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 5	Date Reported:	08-10-12
Lab ID#:	62908	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)
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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: **Spill Assessment/ San Juan 30-6 #471**

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Background 1	Date Reported:	08-10-12
Lab ID#:	62909	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**1.68**

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: **Spill Assessment/ San Juan 30-6 #471**



Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Background 2	Date Reported:	08-10-12
Lab ID#:	62910	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	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: Spill Assessment/ San Juan 30-6 #471



Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Background 3	Date Reported:	08-10-12
Lab ID#:	62911	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

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: **Spill Assessment/ San Juan 30-6 #471**

CHAIN OF CUSTODY RECORD

14214

Rush

Client: <i>Conoco Phillip</i>			Project Name / Location: <i>Spill Assessment San Juan 30-6 #471</i>			ANALYSIS / PARAMETERS														
Email results to: <i>F. Aragon</i>			Sampler Name: <i>F. Aragon / C. Arrigo</i>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Client Phone No.:			Client No. <i>92115-2245</i>																	
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative															
					HgCl ₂	HCl	60													
<i>Section 1</i>	<i>8-8-12</i>	<i>18:00</i>	<i>U2904</i>	<i>1-402</i>			<i>X</i>	<i>X</i>	<i>X</i>						<i>X</i>			<i>X</i>	<i>X</i>	
<i>Section 2</i>		<i>18:05</i>	<i>U2905</i>																	
<i>Section 3</i>		<i>18:15</i>	<i>U2906</i>																	
<i>Section 4</i>		<i>18:20</i>	<i>U2907</i>																	
<i>Section 5</i>		<i>18:25</i>	<i>U2908</i>					<i>X</i>	<i>X</i>											
<i>Background 1</i>		<i>18:30</i>	<i>U2909</i>																	
<i>Background 2</i>		<i>18:35</i>	<i>U2910</i>																	
<i>Background 3</i>		<i>18:40</i>	<i>U2911</i>				<i>X</i>								<i>X</i>			<i>X</i>	<i>X</i>	
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time									
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature)														
Sample Matrix Solid <input checked="" type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																				
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																				

Rush

envirotech
Analytical Laboratory

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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: *Daniel Z...* 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.



Chloride

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



Chloride

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: **Chloride Confirmation Sample/ San Juan 30-6 #471**



Chloride

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: **Chloride Confirmation Sample/ San Juan 30-6 #471**



Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section #4	Date Reported:	09-18-12
Lab ID#:	63249	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

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: **Chloride Confirmation Sample/ San Juan 30-6 #471**



Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section #5	Date Reported:	09-18-12
Lab ID#:	63250	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

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: **Chloride Confirmation Sample/ San Juan 30-6 #471**

DASH

CHAIN OF CUSTODY RECORD

14449

Client: Concepcion Hills			Project Name / Location: Chloride Confirmation Sample / San Juan 30-G#471			ANALYSIS / PARAMETERS															
Email results to: F. Aragon			Sampler Name: F. Aragon			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.:			Client No.: 92115-2245																		
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HgCl ₂	HCl	100														
Section #1	7/17/14	10:10	63246	1-403			X										X			✓	✓
Section #2		14:00	63247																	✓	✓
Section #3		14:05	63248																	✓	✓
Section #4		14:15	63249																	✓	✓
Section #5		14:20	63250				X										X			✓	✓
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time										
				7/17/14	15:46					7/17/14	15:46										
Relinquished by: (Signature)				Received by: (Signature)																	
Sample Matrix																					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																					





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:

A handwritten signature in black ink, appearing to be 'L. B.', written over a horizontal line.

Date:

10/24/12

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Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 1	Date Reported:	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)
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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**



Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 2	Date Reported:	10-19-12
Lab ID#:	63482	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)
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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**

CHAIN OF CUSTODY RECORD

14562

Client: <i>Corrico H. H. ps</i>			Project Name / Location: <i>Confirmation Sample / San Juan 20-6 #471</i>			ANALYSIS / PARAMETERS													
Email results to: <i>Felipe</i>			Sampler Name: <i>F. Arago</i>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <i>72115-2245</i>																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl ₂	HCl	CU												
<i>Section 1</i>	<i>10-17-12</i>	<i>15:00</i>	<i>U3481</i>	<i>1-402</i>			<i>X</i>									<i>X</i>		<i>X</i>	<i>X</i>
<i>Section 2</i>	<i>10-17-12</i>	<i>15:10</i>	<i>U3482</i>	<i>1-402</i>			<i>Y</i>									<i>X</i>		<i>X</i>	<i>X</i>
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>												Date	Time
Relinquished by: (Signature) <i>[Signature]</i>																			
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			





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:

A handwritten signature in black ink, appearing to be 'J. B.', written over a horizontal line.

Date:

11/28/12

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Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 1	Date Reported:	11-27-12
Lab ID#:	63742	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

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**



Chloride

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**

CHAIN OF CUSTODY RECORD

14684

Client: <u>Concepcion Phillips</u>			Project Name / Location: <u>Confirmation Sampling San Juan 30-6 #11</u>			ANALYSIS / PARAMETERS															
Email results to: <u>F. Aragon</u>			Sampler Name: <u>F. Aragon</u>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact	
Client Phone No.:			Client No.: <u>9215-2245</u>																		
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
					HgCl ₂	HCl															
<u>Section 1</u>	<u>11-19-12</u>	<u>14:15</u>	<u>P211060-01A</u> <u>63742</u>	<u>1- 402</u>		<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>				<u>Y</u>	<u>Y</u>
<u>Section 2</u>	<u>11-19-12</u>	<u>14:30</u>	<u>P211060-02A</u> <u>63743</u>	<u>1- 402</u>		<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>				<u>Y</u>	<u>Y</u>
Relinquished by: (Signature) <u>[Signature]</u>				Date	Time	Received by: (Signature) <u>[Signature]</u>										Date	Time				
Relinquished by: (Signature) <u>[Signature]</u>				<u>11-19-12</u>	<u>16:00</u>	Received by: (Signature) <u>[Signature]</u>										<u>11/19/12</u>	<u>16:01</u>				
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																					





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:

A handwritten signature in black ink, appearing to be 'L. B.', written over a horizontal line.

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.



Chloride

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**



Chloride

Client:	ConocoPhillips	Project #:	92115-2245
Sample ID:	Section 2	Date Reported:	01-23-13
Lab ID#:	64111	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


1,600

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**

CHAIN OF CUSTODY RECORD

15070

Client: COPC			Project Name / Location: San Juan Chloride Sample / 30-6 #471			ANALYSIS / PARAMETERS													
Email results to: Felipe			Sampler Name: Felipe / Tiffany			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: 92115-2245																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl ₂	HCl	Cob												
Section 1	1/16/13	10:30	64110 P301036-01A	1-4oz jar			✓												✓
Section 2	1/16/13	10:32	64111 P301036-02A	1-4oz jar			✓												✓
Relinquished by: (Signature) <i>Tiffany Mc Intosh</i>					Date	Time	Received by: (Signature) <i>San Juan</i>					Date	Time						
					1/16/13	11:50						1/16/13	11:50						
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			
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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:

A handwritten signature in black ink, appearing to be "Tim Cain", written over a horizontal line.

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: Chloride Sample/San Juan 30-6 #471
Project Number: 92115-2245
Project Manager: Felipe Aragon

Reported:
12-Feb-13 08:03

Analytical 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

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





ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Chloride Sample/San Juan 30-6 #471
Project Number: 92115-2245
Project Manager: Felipe Aragon

Reported:
12-Feb-13 08:03

Section 1
P302016-01 (Solid)

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

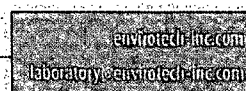
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Ph (970) 259-0615 Fr (800) 362-1879





ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: 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)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	153	0.999	mg/kg	9.99	1307004	11-Feb-13	11-Feb-13	EPA 300.0	

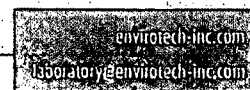
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Ph (970) 259-0615 Fr (800) 362-1879





ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Chloride Sample/San Juan 30-6 #471
Project Number: 92115-2245
Project Manager: Felipe Aragon

Reported:
12-Feb-13 08:03

Section 3
P302016-03 (Solid)

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

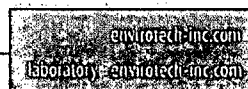
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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Chloride Sample/San Juan 30-6 #471
Project Number: 92115-2245
Project Manager: Felipe Aragon

Reported:
12-Feb-13 08:03

Section 4
P302016-04 (Solid)

Analyte	Result	Reporting 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	

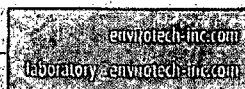
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PO Box 2200
Bartlesville OK, 74005

Project Name: Chloride Sample/San Juan 30-6 #471
Project Number: 92115-2245
Project Manager: 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									
Chloride	ND	1.00	mg/kg	10.00	1307004	11-Feb-13	11-Feb-13	EPA 300.0	

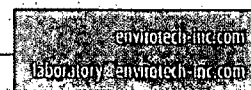
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Project Name: Chloride Sample/San Juan 30-6 #471
Project Number: 92115-2245
Project Manager: Felipe Aragon

Reported:
12-Feb-13 08:03

Spill Way
P302016-06 (Solid)

Analyte	Result	Reporting 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	

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PO Box 2200
Bartlesville OK, 74005

Project Name: Chloride Sample/San Juan 30-6 #471
Project Number: 92115-2245
Project Manager: Felipe Aragon

Reported:
12-Feb-13 08:03

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

Analyte	Result	Reporting 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	

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Analytical Laboratory

ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Chloride Sample/San Juan 30-6 #471
Project Number: 92115-2245
Project Manager: Felipe Aragon

Reported:
12-Feb-13 08:03

Notes and Definitions

DET 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

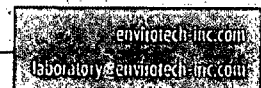
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Client:		Project Name / Location:		ANALYSIS / PARAMETERS															
Email results to:		Sampler Name:		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	PCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.:		Client No.:																	
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative														
					HgCl ₂	HCl	CO												
Section 1	2-5-13	10:45	P302016-01A	1-gal bag			X										X		
Section 2		10:55	P302016-02A														X		
Section 3		11:05	P302016-03A														X		
Section 4		11:15	P302016-04A														X		
Section 5		11:25	P302016-05A														X		
Spill Way		11:35	P302016-06A														X		
West of Ast's Camp		11:45	P302016-07A				X										X		
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time								
Relinquished by: (Signature)				2-5-13	1340	[Signature]				2-5-13	1340								
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			



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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

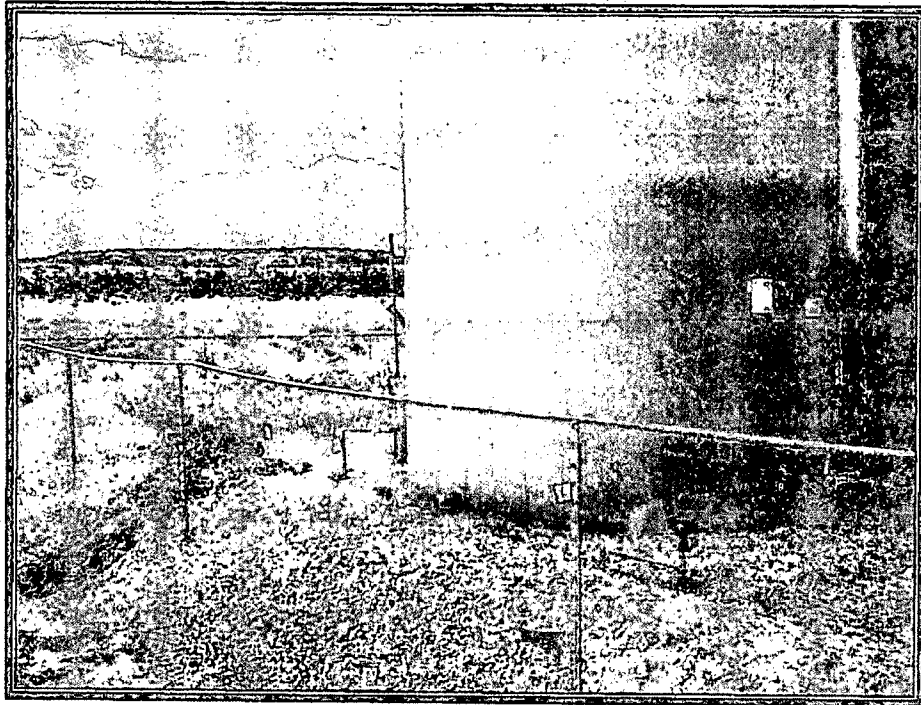


Photo 1: View of Spill Source Location

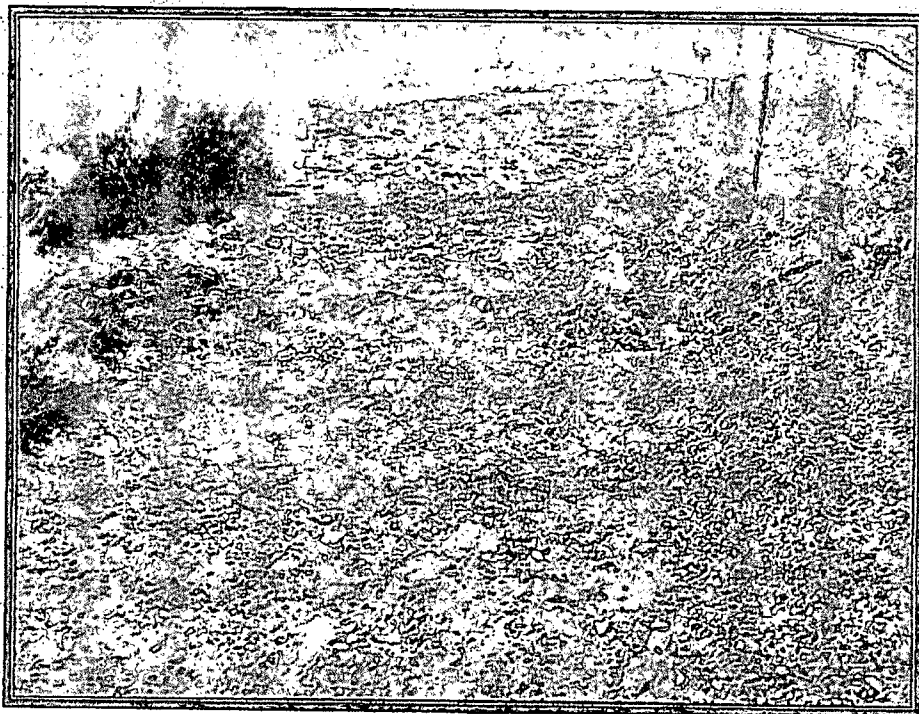


Photo 2: Alternate View of Source Staining

**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

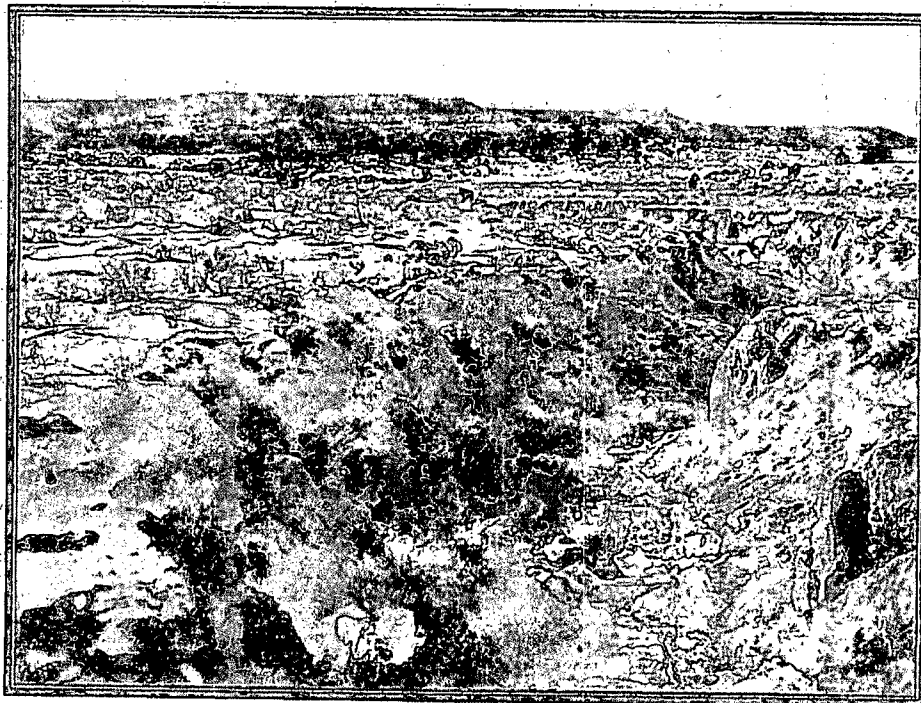


Photo 6: Western Facing View of Wash (1/16/2013)

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

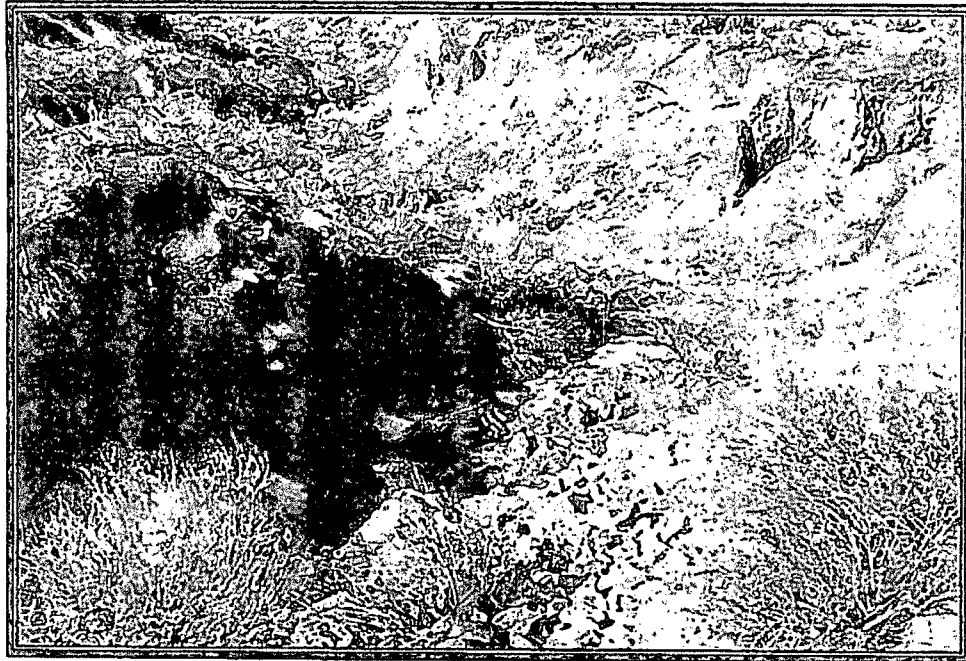


Photo 7: Western Facing View of Wash (2/05/2013)

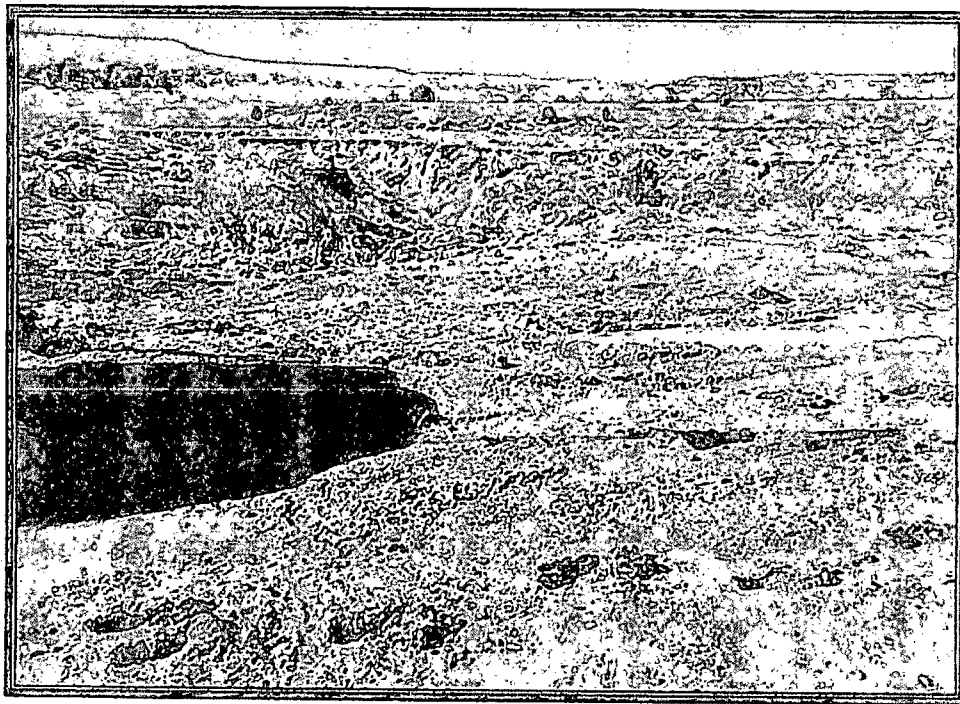


Photo 8: Area West of AST's (2/05/2013)