

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 Conoco Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9786
Facility Name: San Juan 30-6 #97	Facility Type: Gas Well

Surface Owner Federal	Mineral Owner Federal	API No. 3003907767
------------------------------	------------------------------	---------------------------

LOCATION OF RELEASE

Unit Letter G	Section 27	Township 30N	Range 7W	Feet from the 1485'	North/South Line North	Feet from the 1695'	East/West Line East	County Rio Arriba
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Latitude 36.7867 Longitude -107.55437

NATURE OF RELEASE

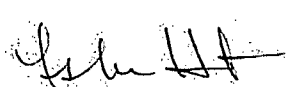
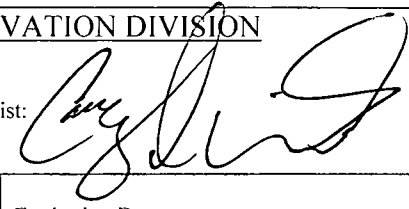
Type of Release Produced Water	Volume of Release 9.3 BBLs	Volume Recovered 0 BBLs
Source of Release Oil/Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 10/17/13 1:15 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. RCVD JAN 30 '14	

If a Watercourse was Impacted, Describe Fully.* N/A	OIL CONS. DIV. DIST. 3
---	-----------------------------------

Describe Cause of Problem and Remedial Action Taken.* Found tank leaking due to corrosion at weld seam. Well shut-in, hole plugged, and contents removed.

Describe Area Affected and Cleanup Action Taken.*
ConocoPhillips will assess the soil to determine a path forward for clean-up if necessary. **Excavation was 28' x 40' x 5' Deep. 222 c/yds of soil was transported to IEL Land Farm and 234 c/yds of clean soil was transported from Aztec Machine Co., and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling 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: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 8/27/14	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: January 27, 2014 Phone: (505) 326-9786		

* Attach Additional Sheets If Necessary

#NCS1423941540

35



January 21, 2014

Project Number 92115-2517

Ms. Lisa Hunter
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87402

Phone: (505) 324-5140
Cell: (505) 258-1607

**RE: SPILL ASSESSMENT AND CLOSURE REPORT FOR THE SAN JUAN 30-6 #97 (hBr),
RIO ARriba COUNTY, NEW MEXICO**

Dear Ms. Hunter:

Enclosed please find the *Spill Assessment and Closure Report* detailing spill assessment and closure activities conducted at the San Juan 30-6 #97 (hBr) located in Section 27, Township 30 North, Range 7 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.

Isaac Garcia
Environmental Field Technician
igarcia@envirotech-inc.com

Enclosures: *Spill Assessment and Closure Report*

Cc: Client File Number 92115

SPILL ASSESSMENT AND CLOSURE REPORT

**LOCATION:
CONOCOPHILLIPS
SAN JUAN 30-6 #97 (HBR)
SECTION 27, TOWNSHIP 30 NORTH, RANGE 7 WEST
RIO ARriba COUNTY, NEW MEXICO**

**CONTRACTED BY:
CONOCOPHILLIPS
MS. LISA HUNTER
3401 EAST 30TH STREET
FARMINGTON, NEW MEXICO 87402**

**PROJECT NUMBER 92115-2517
OCTOBER 2013**

CONOCOPHILLIPS
SPILL ASSESSMENT AND CLOSURE REPORT
SAN JUAN 30-6 #97 (HBR)
SECTION 27, TOWNSHIP 30 NORTH, RANGE 7 WEST
RIO ARriba COUNTY, NEW MEXICO

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	Figure 3, Site Map – Confirmation
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INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by ConocoPhillips to provide spill assessment and confirmation sampling services for a release of produced water from the San Juan 30-6 #97 above ground storage tank (AST) located in Section 27, Township 30 North, Range 7 West, Rio Arriba County, New Mexico; see enclosed **Figure 1, Vicinity Map**. Approximately nine (9) barrels of produced water were reported to be released from a leak due to corrosion of the weld on the AST. The release ran to the east of the AST; see enclosed **Figure 2, Site Map – Initial Assessment**. Activities included sample collection and analysis, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on October 21, 2013, with a request to respond to a release that occurred at the above referenced location. Upon arrival, a brief site assessment was conducted. Because distance to surface water is between 200 and 1000 feet from the well site, depth to groundwater is greater than 100 feet below ground surface (BGS), and the well site is not within a well head protection area, 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.

On October 21, 2013, two (2) samples were collected from the area of the release. One (1) sample was collected from underneath the AST. One (1) composite sample was collected from the spill path. Both samples were screened in the field for TPH using USEPA Method 418.1, for organic vapors using a photoionization detector (PID) and for chlorides. The sample from underneath the AST returned results above the regulatory standard for both TPH and organic vapors; see enclosed **Table 1, Summary of Analytical Results** and **Appendix A, Field Notes**.

Upon Envirotech personnel's return on October 31, 2013, ConocoPhillips had excavated the flow path to the east to the extents of approximately 46 feet by 23 feet by five (5) feet BGS. Six (6) composite samples were collected from the excavated area; one (1) from the west wall, one (1) from the east wall, one (1) from the south wall, one (1) from the north wall, one (1) from the south bottom at five (5) feet BGS and one from the north bottom at five (5) feet BGS. All samples were screened in the field for TPH using USEPA Method 418.1, for organic vapors using a PID. All samples returned results below the regulatory standard for both TPH and organic vapors; see enclosed **Appendix A, Field Notes**.

SUMMARY AND CONCLUSIONS

Spill assessment and confirmation sampling activities were performed for a release from the San Juan 30-6 #97 located in Section 27, Township 30 North, Range 7 West, Rio Arriba County, New Mexico. Contaminated soil was transported to IEI's NMOCD permitted soil remediation facility. Envirotech, Inc. recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill assessment and confirmation sampling activities for a release from the San Juan 30-6 #97 AST located in Section 27, Township 30 North, Range 7 West, 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,

ENVIROTECH, INC.



Isaac Garcia
Environmental Field Technician
igarcia@envirotech-inc.com

Reviewed by:



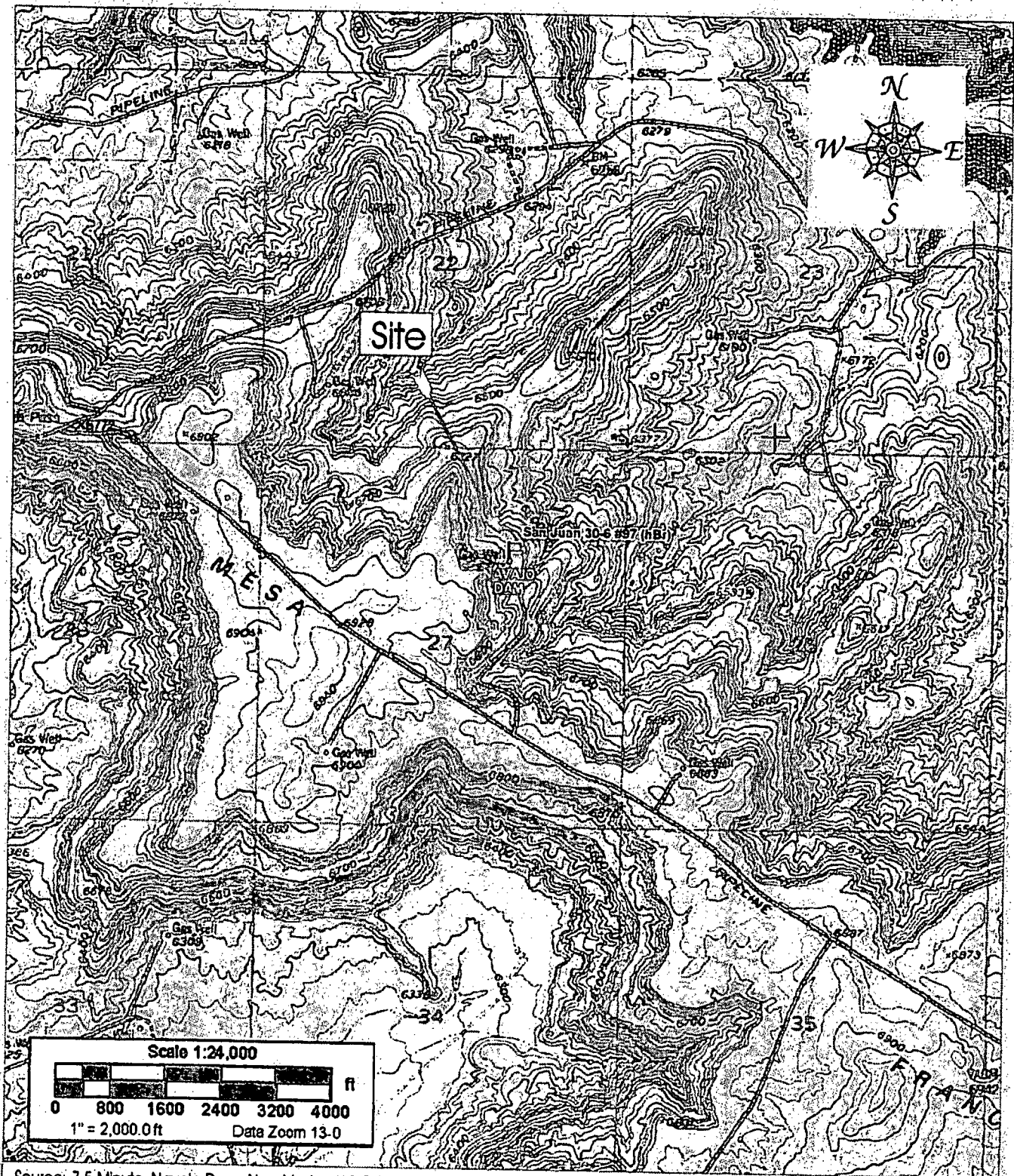
Greg Crabtree, PE
Environmental Manager
gcrabtree@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map – Initial Assessment

Figure 3, Site Map – Confirmation



ConocoPhillips
San Juan 30-6 #97 (hBr)
Section 27, Township 30N, Range 7W
Rio Arriba County, New Mexico



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

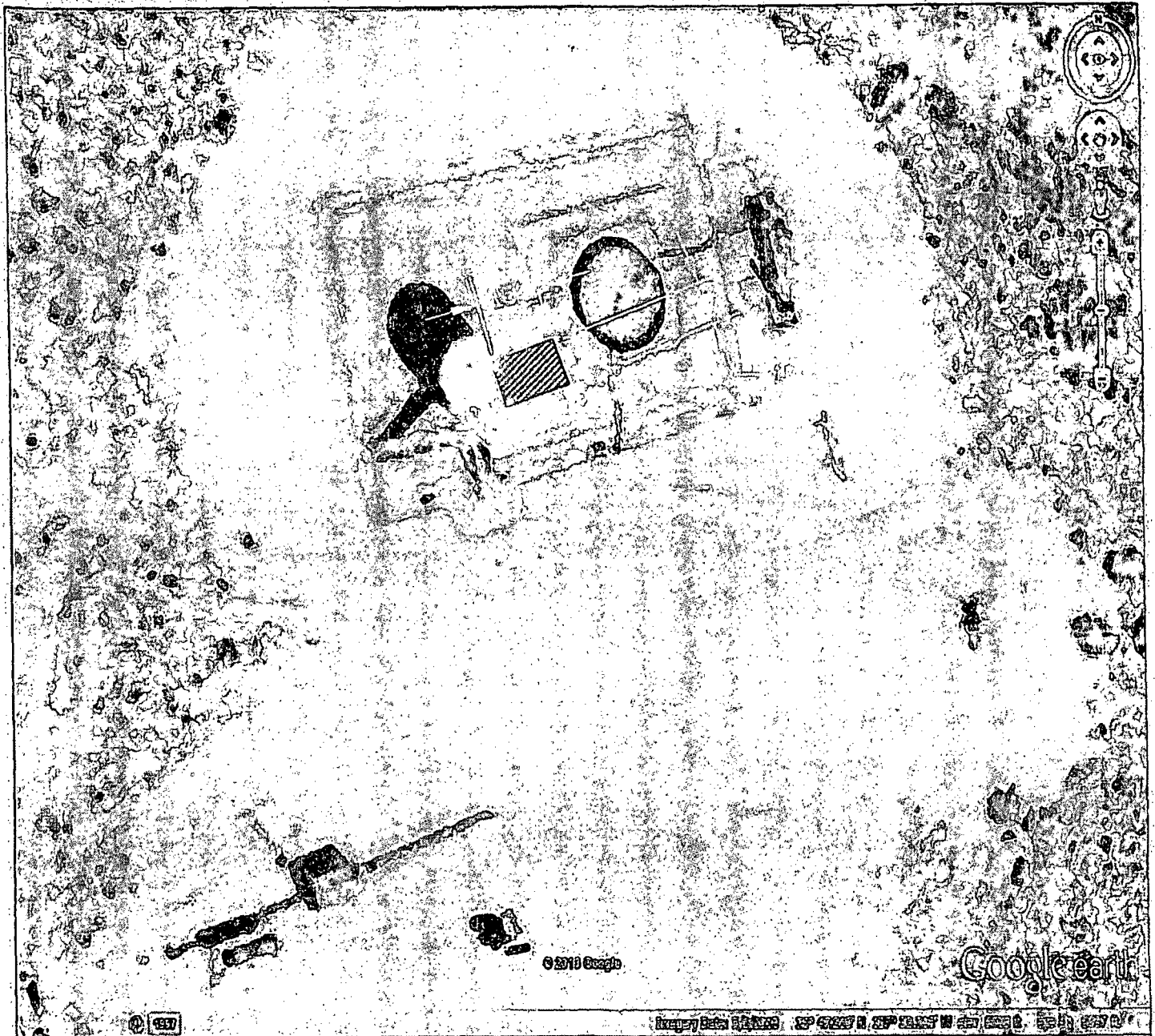
Vicinity Map

Figure #1

PROJECT Number: 92115-2517 Date Drawn: 12/20/13

DRAWN BY:
Tiffany McIntosh

PROJECT MANAGER:
Greg Crabtree



LEGEND



Area to be excavated 4'+
Deep

SITE MAP-INITIAL ASSESSMENT

ConocoPhillips
San Juan 30-6 #97
Section 27, TWP 30 NORTH, Range 7 WEST
Rio Arriba, New Mexico

SCALE: NTS

PROJECT NO92115-2517

FIGURE NO. 1

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	IG	10/25/13	BASE DRWN
			IG
			10/25/13



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 #97 (hBr)
 Spill Assessment and Closure Report
 Project Number 92115-2517

Date	Sample Description	Sample Number	PID (ppm)	OV (ppm)	USEPA Method 418.1 TPH (ppm)	USEPA Method 8015 TPH (ppm)	Chlorides (ppm)	USEPA Method 8021	
								Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	100		1000	1000	NA	10	50
10/21/2013	Under Tank	1	1138		2880	907	32.4	0.42	109
10/21/2013	Spill Path	2	7.1		56	NS	247	NS	NS
10/31/2013	West Wall	1	ND		40	NS	NS	NS	NS
10/31/2013	East Wall	2	36.2		688	NS	NS	NS	NS
10/31/2013	South Wall	3	62		100	NS	NS	NS	NS
10/31/2013	North Wall	4	23.9		80	NS	NS	NS	NS
10/31/2013	S Bottom @ 5' BGS	5	72.1		96	NS	NS	NS	NS
10/31/2013	N Bottoms @ 5' BGS	6	38.5		52	NS	NS	NS	NS

*Values in **BOLD** above regulatory limits

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

*Closure Sample

APPENDIX A

Field Notes

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

DATE STARTED: 10/01/13

DATE FINISHED: 10/21/13

LOCATION: NAME: San Juan 30-6  WELL #: 97

QUAD/UNIT: G SEC: 27 TWP: 30.0 RNG: 7W PM: CNTY: RA ST: NM

QTR/FOOTAGE: CONTRACTOR:

SPECIALIST: E Garcia

EXCAVATION APPROX: N/A FT. X N/A FT. X N/A FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: NA REMEDIATION METHOD: NA

LAND USE:	LEASE:	LAND OWNER:
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CAUSE OF RELEASE:	MATERIAL RELEASED:
-------------------	--------------------

SPILL LOCATED APPROXIMATELY: _____ FT. _____ FROM _____

DEPTH TO GROUNDWATER: > 100 NEAREST WATER SOURCE: NEAREST SURFACE WATER: 2 - 000

NMOC Ranking Score: 10 NMOC TPH Closure Std: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: under tank C5 - 1.2 = 29

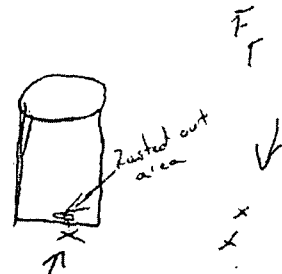
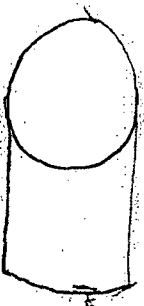
Spill Path C1 - 5 = 238

[illegible]

SPILL PERIMETER

OVM RESULTS

SPILL PROFILE

[illegible]

TR.

§

Client: COPE


 (888) 838-6348 (888) 338-1070
 5788 U.S. Hwy 64, Farmington, ME 04701

Project No: 92115-2517

CDC No: N/A

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 2 OF 2

LOCATION: NAME: SJ 30-6 WELL #: 95

DATE STARTED: 10/31/13

QUAD/UNIT: 6 SEC: 27 TWP: 30 N RNG: 7 W PM: CNTY: RA ST: NM

DATE FINISHED: 10/31/13

QTR/FOOTAGE: CONTRACTOR: Montoya

ENVIRONMENTAL
SPECIALIST: Rowe

EXCAVATION APPROX: 23 FT. X 46 FT. X 5 FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: FFI REMEDIATION METHOD: Land farm

LAND USE: Grazing LEASE: LAND OWNER: BLM

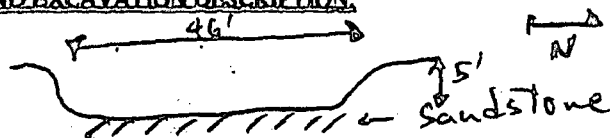
CAUSE OF RELEASE: Production Tank Leak MATERIAL RELEASED: Produced Water

SPILL LOCATED APPROXIMATELY: 70' FT. 68' FROM Well (Leak)

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >2000 NEAREST SURFACE WATER: 200-1000

NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

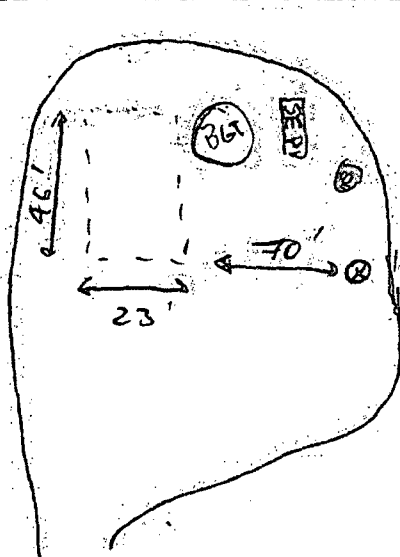


SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
West wall		1		85	20	X4	10	40
East wall		2					172	688
South wall		3					25	100
North wall		4					20	80
South Bottom SBbs		5					24	96
North Bottom SBbs		6					13	52
200, 500, 1000 SFB	14:00							Re-calibrated

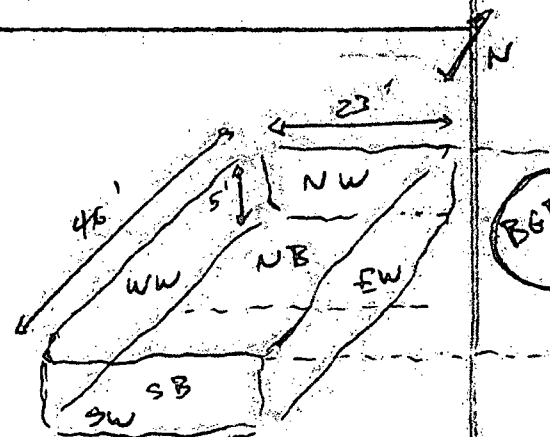
SPILL PERIMETER

OVM
RESULTS

SPILL PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)	
1	ND	
2	36.2	
3	62	
4	23.9	
5	72.1	
6	38.5	
LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME
	None	



TRAVEL NOTES: CALLED OUT

ON SITE:

APPENDIX B

Analytical Results



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2517
Sample No.:	1	Date Reported:	12/18/2013
Sample ID:	Under Tank	Date Sampled:	10/21/2013
Sample Matrix:	Soil	Date Analyzed:	10/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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


Total Petroleum Hydrocarbons	2,860	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 #97**

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



Analyst

Isaac Garcia

Printed



Review

Toni McKnight, EIT

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 2
Sample ID: Spill Path
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2517
Date Reported: 12/18/2013
Date Sampled: 10/21/2013
Date Analyzed: 10/21/2013
Analysis Needed: TPH-418.1

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


Total Petroleum Hydrocarbons	56	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 #97**

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


Analyst

Isaac Garcia
Printed


Review

Toni McKnight, EIT
Printed

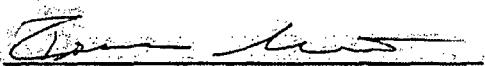


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 21-Oct-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	189
	500	
	1000	
	5000	

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


Analyst

12/18/2013
Date

Isaac Garcia
Print Name


Review

12/18/2013
Date

Toni McKnight, EIT
Print Name



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2517
Sample No.:	1	Date Reported:	12/18/2013
Sample ID:	West wall	Date Sampled:	10/31/2013
Sample Matrix:	Soil	Date Analyzed:	10/31/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	40	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 #97**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Analyst

Rene Garcia

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Review

Toni McKnight, EIT

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2517
Sample No.:	2	Date Reported:	12/18/2013
Sample ID:	East wall	Date Sampled:	10/31/2013
Sample Matrix:	Soil	Date Analyzed:	10/31/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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

Total Petroleum Hydrocarbons	688	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 #97**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Analyst

Rene Garcia

Printed

Review

Toni McKnight, EIT

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 3
Sample ID: South wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2517
Date Reported: 12/18/2013
Date Sampled: 10/31/2013
Date Analyzed: 10/31/2013
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	100	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 #97**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Analyst

Rene Garcia

Printed

Review

Toni McKnight, EIT

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2517
Sample No.:	4	Date Reported:	12/18/2013
Sample ID:	North wall	Date Sampled:	10/31/2013
Sample Matrix:	Soil	Date Analyzed:	10/31/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	80	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: **San Juan 30-6 #97**

Instrument calibrated to 500 ppm standard and zeroed before each sample.

Analyst

Rene Garcia

Printed

Review

Toni McKnight, EIT

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2517
Sample No.:	5	Date Reported:	12/18/2013
Sample ID:	South bottom 5 BGS	Date Sampled:	10/31/2013
Sample Matrix:	Soil	Date Analyzed:	10/31/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

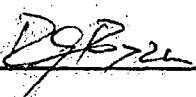
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	96	5.0

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 #97**


Instrument calibrated to 500 ppm standard and zeroed before each sample.



Analyst

Rene Garcia

Printed



Review

Toni McKnight, EIT

Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2517
Sample No.:	6	Date Reported:	12/18/2013
Sample ID:	North bottom 5 BGS	Date Sampled:	10/31/2013
Sample Matrix:	Soil	Date Analyzed:	10/31/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	52	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 #97

Instrument calibrated to 500 ppm standard and zeroed before each sample.



Analyst

Rene Garcia

Printed:



Review

Toni McKnight, EIT

Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 31-Oct-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	
	500	560
	1000	
	5000	

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

Analyst

Rene Garcia

Print Name

Review

Toni McKnight, EIT

Print Name

12/18/2013

Date

12/18/2013

Date



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number: 16247

Samples Received: 10/21/2013 4:23:00PM

Job Number: 92115-2517

Work Order: P310084

Project Name/Location: San Juan 30-6 #97

Entire Report Reviewed By:

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

Tim Cain, Laboratory Manager

Date: 10/25/13

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: San Juan 30-6 #97
Project Number: 92115-2517
Project Manager: Isaac Garcia

Reported:
25-Oct-13 15:24

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
UT	P310084-01A	Soil	10/21/13	10/21/13	Glass Jar, 4 oz.
SP	P310084-02A	Soil	10/21/13	10/21/13	Glass Jar, 4 oz.

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ConocoPhillips
 PO Box 2200
 Bartlesville OK, 74005

 Project Name: San Juan 30-6 #97
 Project Number: 92115-2517
 Project Manager: Isaac Garcia

 Reported:
 25-Oct-13 15:24

UT

P310084-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	0.42	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Toluene	24.8	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Ethylbenzene	6.93	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
p,m-Xylene	61.1	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
o-Xylene	15.5	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Total Xylenes	76.6	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Total BTEX	109	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Surrogate: Bromochlorobenzene		108 %	80-120		1343007	10/22/13	10/22/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		130 %	80-120		1343007	10/22/13	10/22/13	EPA 8021B	Surr1
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	633	4.99	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8015D	
Diesel Range Organics (C10-C28)	274	30.0	mg/kg	1	1343008	10/22/13	10/22/13	EPA 8015D	
GRO and DRO Combined Fractions	907	4.99	mg/kg		[CALC]	10/22/13	10/22/13	EPA 8015D	
Cation/Anion Analysis									
Chloride	32.4	9.98	mg/kg	1	1343027	10/25/13	10/25/13	EPA 300.0	

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Project Name: San Juan 30-6 #97
Project Number: 92115-2517
Project Manager: Isaac Garcia

Reported:
25-Oct-13 15:24

SP

P310084-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	247	9.86	mg/kg	1	1343027	10/25/13	10/25/13	EPA 300.0	

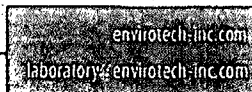
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Project Name: San Juan 30-6 #97
Project Number: 92115-2517
Project Manager: Isaac Garcia

Reported:
25-Oct-13 15:24

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1343007 - Purge and Trap EPA 5030A

Blank (1343007-BLK1)				Prepared & Analyzed: 22-Oct-13						
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	50.0		ug/L	50.0		100	80-120			
Surrogate: Bromochlorobenzene	51.2		"	50.0		102	80-120			

Duplicate (1343007-DUP1)				Source: P310084-01		Prepared & Analyzed: 22-Oct-13				
Benzene	1.72	0.05	mg/kg		0.42			122	30	DI
Toluene	27.9	0.05	"		24.8			11.8	30	
Ethylbenzene	7.59	0.05	"		6.93			9.18	30	
p,m-Xylene	65.6	0.05	"		61.1			7.11	30	
o-Xylene	14.6	0.05	"		15.5			5.98	30	
Surrogate: 1,3-Dichlorobenzene	64.1		ug/L	50.0		128	80-120			Surr1
Surrogate: Bromochlorobenzene	53.7		"	50.0		107	80-120			

Matrix Spike (1343007-MS1)				Source: P310084-01		Prepared & Analyzed: 22-Oct-13				
Benzene	19.9		ug/L	50.0	8.34	23.1	39-150			SPK1
Toluene	465		"	50.0	496	NR	46-148			SPK1
Ethylbenzene	177		"	50.0	139	76.9	32-160			
p,m-Xylene	1180		"	100	1220	NR	46-148			SPK1
o-Xylene	327		"	50.0	311	32.3	46-148			SPK1
Surrogate: 1,3-Dichlorobenzene	65.4		"	50.0		131	80-120			SPK1
Surrogate: Bromochlorobenzene	53.9		"	50.0		108	80-120			

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Bartlesville OK, 74005

Project Name: San Juan 30-6 #97
Project Number: 92115-2517
Project Manager: Isaac Garcia

Reported:
25-Oct-13 15:24

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1343007 - Purge and Trap EPA 5030A

Blank (1343007-BLK1)

Prepared & Analyzed: 22-Oct-13

Gasoline Range Organics (C6-C10) ND 5.00 mg/kg

Duplicate (1343007-DUP1)

Source: P310084-01

Prepared & Analyzed: 22-Oct-13

Gasoline Range Organics (C6-C10) 767 4.99 mg/kg 633 19.2 30

Matrix Spike (1343007-MS1)

Source: P310084-01

Prepared & Analyzed: 22-Oct-13

Gasoline Range Organics (C6-C10) 12.4 mg/L 0.450 12.7 NR 75-125 SPK1

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Project Name: San Juan 30-6 #97
Project Number: 92115-2517
Project Manager: Isaac Garcia

Reported:
25-Oct-13 15:24

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1343008 - DRO Extraction EPA 3550C

Blank (1343008-BLK1)

Prepared & Analyzed: 22-Oct-13

Diesel Range Organics (C10-C28) ND 30.0 mg/kg

Duplicate (1343008-DUP1)

Source: P310084-01

Prepared & Analyzed: 22-Oct-13

Diesel Range Organics (C10-C28) 214 30.0 mg/kg 274 24.5 30

Matrix Spike (1343008-MS1)

Source: P310084-01

Prepared & Analyzed: 22-Oct-13

Diesel Range Organics (C10-C28) 459 mg/L 250 260 79.5 75-125

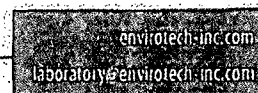
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Project Name: San Juan 30-6 #97
 Project Number: 92115-2517
 Project Manager: Isaac Garcia

Reported:
 25-Oct-13 15:24

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1343027 - Anion Extraction EPA 300.0

Blank (1343027-BLK1)

Prepared & Analyzed: 25-Oct-13

Chloride	ND	9.93	mg/kg
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LCS (1343027-BS1)

Prepared & Analyzed: 25-Oct-13

Chloride	512	9.89	mg/kg	495	104	90-110
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Matrix Spike (1343027-MS1)

Source: P310068-01

Prepared & Analyzed: 25-Oct-13

Chloride	636	9.97	mg/kg	499	135	100	80-120
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Matrix Spike Dup (1343027-MSD1)

Source: P310068-01

Prepared & Analyzed: 25-Oct-13

Chloride	635	9.99	mg/kg	500	135	100	80-120	0.135	20
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Reported:
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Notes and Definitions

Surr1 Surrogate recovery was above acceptable limits.

SPK1 The spike recovery for this QC sample is outside of control limits.

DI Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.

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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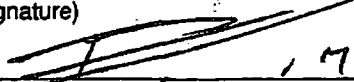
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CHAIN OF CUSTODY RECORD

16247

Page 10 of 10

Client: COPC			Project Name / Location: San Juan 30-6 #97			ANALYSIS / PARAMETERS													
Email results to: Tsae			Sampler Name: T. Garcia			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.: 92115-2517																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl	Cool												
UT	10/21	13:10	P31008401	1-4oz			X	X	X						X			Y	Y
SP	10/21	1315	P31008402	1-4oz			X								X			Y	Y
Relinquished by: (Signature) 					Date	Time	Received by: (Signature) 					Date	Time						
					10/21	16:23						10/21	16:23						
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix																			
Solid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			

☐ Sample(s) dropped off after hours to secure drop off area.



envirotech
Analytical Laboratory

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