District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Sullivan Gas Com E No. 001	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 3004528641

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
N	22	32N	10W	600	South	1,540	West	

Latitude 36.~~695171~~° 965171 **Longitude** -107.872735°

NATURE OF RELEASE

Type of Release: Compressor Lube Oil	Volume of Release: 300 gallons	Volume Recovered: 200 gallons
Source of Release: Compressor line	Date and Hour of Occurrence: 2/1/2017	Date and Hour of Discovery: 2/6/2017 @ 12:00PM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3

MAR 31 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Lube oil line on compressor pinched on skid and broke. 300 gallons of lube oil spilled onto skid and ground over the period of a week. 200 gallons on skid/ 100 gallons on ground. The site was excavated by hand tools and equipment around the compressor where accessible and areas impacted outside of compressor footprint. The remaining impacts beneath the compressor will be addressed when the compressor is removed or replaced.

Describe Area Affected and Cleanup Action Taken.* The area immediate to the compressor skid and around the compressor was affected. The area was excavated and contents removed for offsite disposal. Approximately 66 cubic yards of soil was exported off site for landfarm treatment. Laboratory samples confirmed the maximum, accessible, extents of impacts were removed. Attached is a field report, site diagram and laboratory analysis.

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 Approved by Environmental Specialist:	
Printed Name: Steve Moskal		
Title: Field Environmental Coordinator	Approval Date: 8/29/17	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval: -7	Attached ☒
Date: March 31, 2017 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

#NUF1705454171

89

Smith, Cory, EMNRD

From: Smith, Cory, EMNRD
Sent: Tuesday, August 29, 2017 10:55 AM
To: Moskal, Steven
Cc: Fields, Vanessa, EMNRD
Subject: Sullivan Gas Com E #1 C-141 Conditions of Approval 30-045-28641

Steve,

OCD District III Office received a "Final C-141" on March 31, 2017 in regards to the Sullivan Gas Com E#1 (30-045-28641) which has been approved with the following conditions of approval.

- BP has until November 29, 2017 to return to the site to perform either additional remediation below the compressor skid, or perform additional delineation as required by the Conditions of Approval that were attached to the Initial C-141 approved on 2/23/17.
- BP will notify the OCD at least 72 hours but no more than 1 week prior to the start of remediation/delineation.
- BP will submit either a delineation report (To include BP path forward) on form C-141 or an additional C-141 with laboratory results no later than December 29. 2017

If you have any questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

envirotech

March 24, 2017 Project Number 03143-1224

Mr. Steve Moskal
BP America Production Company
200 Energy Court
Farmington, New Mexico 87401

Phone: (505) 326-9497
Email: steven.moskal@bp.com

SPILL ASSESSMENT AND CLOSURE ACTIVITIES FOR THE SULLIVAN GAS COM E#1 WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Moskal:

Enclosed please find the *Spill Assessment* and *Closure Report* detailing sampling and screening activities at the Sullivan Gas Com E#1 well site located in Section 22, Township 32 North, Range 10 West, San Juan 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.

OIL CONS. DIV DIST. 3

MAR 31 2017

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

Enclosures: *Spill Assessment* and *Closure Report*

Cc: Client File Number 03143

SPILL ASSESSMENT AND CLOSURE REPORT

LOCATION:
BP AMERICA PRODUCTION COMPANY
SULLIVAN GAS COM E#1 WELL SITE
SECTION 22, TOWNSHIP 32 NORTH, RANGE 10 WEST
SAN JUAN COUNTY, NEW MEXICO

CONTRACTED BY:
BP AMERICA PRODUCTION COMPANY
MR. STEVEN MOSKAL
200 ENERGY COURT
FARMINGTON, NEW MEXICO 87401

PROJECT NUMBER 03143-1224
MARCH 2017

BP AMERICA PRODUCTION COMPANY
SPILL ASSESSMENT AND CLOSURE REPORT
SULLIVAN GAS COM E#1 WELL SITE
SECTION 22, TOWNSHIP 32 NORTH, RANGE 10WEST
SAN JUAN COUNTY, NEW MEXICO

TABLE OF CONTENTS

INTRODUCTION

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted by BP America Production Company to provide spill assessment and closure sampling services for a release of oil from the compressor at the Sullivan Gas Com E#1 well site located in Section 22, Township 32 North, Range 10 West, San Juan County, New Mexico; see enclosed ***Figure 1, Vicinity Map***. Approximately 300-500 gallons of oil were reported to be released from a compressor leak; see ***Appendix B, Site Photography.*** The release area surrounded the compressor and ran to the southeast off location down a hill; see enclosed ***Appendix B, Site Photography.*** Activities included sample collection and analysis, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on February 15, 2017, with a request to respond to a release that occurred at the above referenced location. Because distance to surface water is between 200 and 1,000 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 1,000 parts per million (mg/kg) total petroleum hydrocarbons (TPH) and 100 mg/kg organic vapors or 10 mg/kg benzene and 50 mg/kg BTEX, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

February 16, 2017
Upon arrival to the site, a brief assessment was conducted and a job safety analysis JSA was completed. The impacted area was section in to the following areas: surrounding the compressor skid (*Area 1*), to the southeast (*Area 2*), to the east (*Area 3*), and to the northeast (*Area 4*); see enclosed ***Appendix A, Field Notes***. Calder Services (Calder) began manually excavating the contaminated soil, using hand shovels. *Area 1* was excavated to approximately four (4) inches below ground surface (bgs). One (1) composite sample from *Area 1* was collected and screened in the field for organic vapors (OV) using a photoionization detector (PID) and for total petroleum hydrocarbons using USEPA Method 418.1. The sample returned results above the regulatory standard for TPH and below the regulatory standard for OV; see enclosed ***Appendix A, Field Notes*** and ***Table 1, Summary of Analytical Results*** and ***Appendix C, Analytical Results***. In order to establish base line concentrations and correlation between field and laboratory results, the sample was placed into a four (4) ounce, laboratory provided glass jar capped headspace, and place in a cooler with ice for future laboratory analysis.

Calder continued manual excavation on *Area 2, Area 3,* and *Area 4.* In order to guide and direct the cleanup activities, periodic screening for TPH using USEPA Method 418.1 and for OV's using a PID was performed on the excavations. Upon the field screening activities returning results below the regulatory standard, the samples: *Area 2a* and *Area 3b* were placed into a four (4) ounce, laboratory provided glass jars capped headspace, and place in a cooler with ice for future laboratory analysis; see enclosed ***Appendix A, Field Notes*** and ***Table 1, Summary of Analytical Results*** and ***Appendix C, Analytical Results***.

The samples identified as *Area 1, Area 2a,* and *Area 3b* were transported in a cooler with ice and submitted to Envirotech's analytical laboratory to be analyzed for benzene and total BTEX using USEPA Method 8021B and for TPH: gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO) using USEPA Method 8015D. *Area 1* retuned laboratory results above the regulatory standard for TPH and below the regulatory standard for benzene and BTEX. Both *Area 2a* and *Area3b* returned laboratory results below the regulatory standard for all constituents analyzed; see enclosed ***Table 1, Summary of Analytical Results*** and ***Appendix C, Analytical Results***. The final approximate dimensions of *Area 2* were 30' X 25' X 3" bgs. The final approximate dimensions of *Area 3* were 25' X 15' X 8"-12" bgs. Based on the Analytical results, Envirotech recommended additional excavation in *Area1*and *Area 4.*

February 17, 2017
Upon arrival to the site, a brief assessment was conducted and a job safety analysis JSA was completed. Calder continued manual excavation activities on *Area 4*. Periodic screening for TPH using USEPA Method 418.1 and for OV's using a PID was performed on the excavation. Upon the field screening activities returning results below the regulatory standard, the samples: *Area 2e* was placed into a four (4) ounce, laboratory provided glass jar capped headspace free, and place in a cooler with ice for future laboratory analysis; see enclosed ***Appendix A, Field Notes*** and ***Table 1, Summary of Analytical Results*** and ***Appendix C, Analytical Results***.

The area formerly identified as *Area 1* was divided in to three (3) sections identified as: *Area 5, Area 6,* and *Area 7.* Calder excavated an additional 2"- 6" bgs from *Area 5, Area 6,* and *Area 7* (the areas surrounding the compressor skid). The total depth of the excavation directly around the compressor skid ranged from 6"- 10" bgs. At this point a determination was made that any additional excavation around the compressor could potentially compromise the structural integrity of the soil beneath the compressor. Therefore, one (1) sample was collected from the area directly area around the compressor skid *(Around Skid)* and one (1) sample was collected from directly beneath the compressor *(Under Skid).* The samples were placed into four (4) ounce, laboratory provided glass jars capped headspace free, and place in a cooler with ice for future laboratory analysis; see enclosed ***Appendix A, Field Notes***.

Calder commenced excavation activities on *Area 8* and *Area 9. Area 8* near the lube oil tank was excavated to the dimensions of approximately 8' X 8'X 2" bgs. One (1) composite sample was collected from the excavation and screened in the field for TPH using USEPA Method 418.1 and for OV's using a PID. The sample returned results below the regulatory standards for both TPH and OV; see enclosed ***Appendix A, Field Notes*** and ***Table 1, Summary of Analytical Results*** and ***Appendix C, Analytical Results***. The sample was placed into a four (4) ounce, laboratory provided glass jars capped headspace free, and place in a cooler with ice for future laboratory analysis. *Area 9;* located directly south of *Area 4* and continued off location down the hill side, was excavated approximately 2" bgs. One (1) composite sample was collected from the excavation and screened in the field for TPH using USEPA Method 418.1 and for OV's using a PID. The sample returned results above the regulatory standards for TPH and below the regulatory standard for OV; see enclosed ***Appendix A, Field Notes*** and ***Table 1, Summary of***

Analytical Results and ***Appendix C, Analytical Results***. Based on the field screening results, Envirotech recommended additional excavation in *Area 9.*

The samples identified as *Around Skid, Under Skid, Area 4e* and *Area 8* were transported in a cooler with ice and submitted to Envirotech's analytical laboratory to be analyzed for benzene and total BTEX using USEPA Method 8021B and for TPH: GRO, DRO, & ORO using USEPA Method 8015D. The samples collected from *Around Skid, Area 4e* and *Area 8* returned laboratory results below the regulatory standard for all constituents analyzed; see enclosed ***Table 1, Summary of Analytical Results*** and ***Appendix C, Analytical Results***. The sample collected from *Under Skid* returned results above the regulatory standard for TPH, and below the regulatory standard for benzene and BTEX; see enclosed ***Table 1, Summary of Analytical Results*** and ***Appendix C, Analytical Results***. Based on the Analytical results, Envirotech recommends *No Further Action* in sections: *Around Skid, Area 4e,* and *Area 8.* Additionally, Envirotech recommends further excavation of the impacted material beneath the compressor skid upon removal of the compressor or decommissioning of the site.

February 20, 2017
Calder performed mechanical excavation activities on February 18, 2017 (Saturday) and resumed Monday, February 20, 2017. Upon Envirotech's arrival on the 20th, the hillside had been excavated to approximately six (6) inches BGS in two (2) sections. The impacted soil was excavated beyond visual detection of the contamination. The north section was divided into two (2) areas identified as: *Area 9* and *Area 10.* The south section was divided into two (2) areas identified as: *Area 11* and *Area 12*. One (1) composite soil sample was collected from each area and placed into separate four (4) ounce, laboratory provided, glass jars capped headspace free, placed on ice in a cooler, and transported under chain of custody to Envirotech's analytical laboratory to be analyzed for benzene and total BTEX using USEPA Method 8021B and for TPH: GRO, DRO, and ORO using USEPA Method 8015D. *Area 9* and *Area 11* returned results below the regulatory standard for all constituents analyzed; see enclosed ***Table 1, Summary of Analytical Results*** and ***Appendix C, Analytical Results.*** However, *Area 10* and *Area 12* returned results slightly above the regulatory standard for TPH (1,064 mg/kg {225 mg/kg DRO & 839 mg/kg ORO} & 1,067 mg/kg {230 mg/kg DRO & 837 mg/kg ORO}; respectively) and below the regulatory standard for benzene and BTEX; see enclosed ***Table 1, Summary of Analytical Results*** and ***Appendix C, Analytical Results.*** Based on the analytical results, Envirotech recommends *No Further Action* for *Area 9* and *Area 11.* Additionally, based on the analysis from *Area 10* and *Area 12* returning results slightly above the regulatory standard; due to the inclusion of the ORO analysis, Envirotech recommends *No Further Action* in regards to *Area 10* and *Area 12* since ORO is not regulated by the NMOCD, is not readily mobilized, and poses little to no threat to public health or the environment.

SUMMARY AND CONCLUSIONS

Spill assessment and confirmation sampling activities were performed for a release of compressor oil from the compressor at the Sullivan Gas Com E#1 well site located in Section 22, Township 32 North, Range 10 West, San Juan County, New Mexico. Approximately 66 cubic

yards of contaminated soil was transported by Calder Services to Envirotech's New Mexico Oil Conservation Division (NMOCD) permitted soil remediation facility, *Landfarm 2* located at #43 County Road 7175 South of Bloomfield, New Mexico; see enclosed ***Appendix D, Bills of Lading.*** All excavated areas were backfilled and returned to pre-incident conditions by Calder Services.

Based on the on-site observations and analytical results, Envirotech recommends the following activities: further remediation of the impacted soil beneath the compressor skid upon removal of the compressor or decommissioning of the site and *No Further Action* in regards to all additional areas that returned analytical results below the regulatory standard.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill assessment and confirmation sampling activities for a release of compressor oil at the Sullivan Gas Com E#1 well site located in Section 22, Township 32 North, Range 10 West, San Juan County, New Mexico. The work and services provided by Envirotech were in accordance with the NMOCD 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,

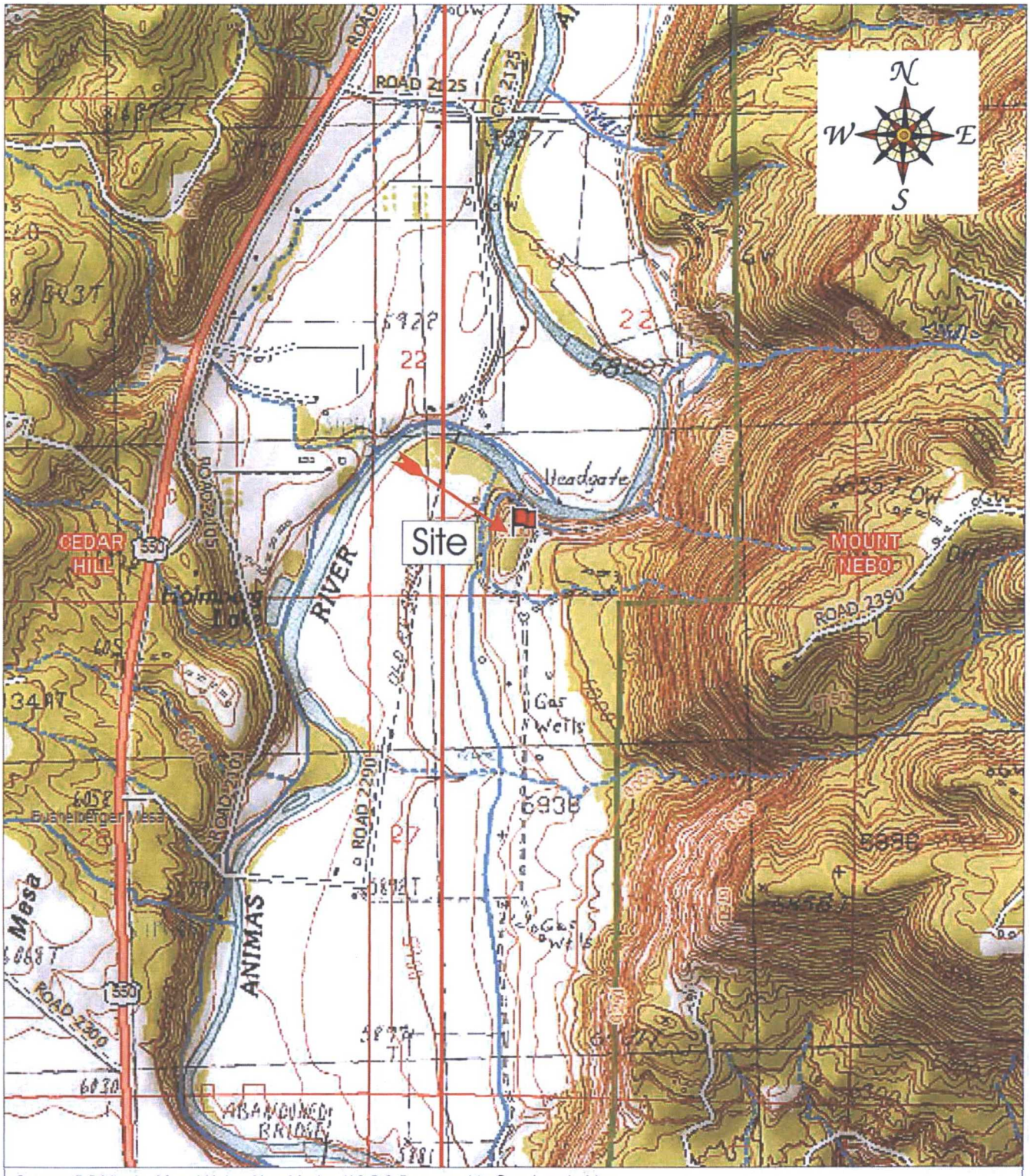
ENVIROTECH, INC.

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

Reviewed by:

Felipe Aragon, CES
Environmental Field Coordinator
faragon@envirotech-inc.com

FIGURES



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

BP America Sullivan Gas Com E#1 Section 22 Township 32N Range 10W San Juan County, New Mexico	envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS	Vicinity Map
		Figure #1
Project Number: 03143-1224 / Date Drawn: 3/10/17	5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615	DRAWN BY: Isaac Garcia / PROJECT MANAGER: Felipe Aragon

TABLES

LEGEND

Impacted Areas

Compressor

SITE MAP
BP America
Sullivan Gas Com E#1
SECTION 22, TWP 32 NORTH, RANGE 10 WEST
San Juan County, New Mexico

SCALE: NTS	FIGURE NO. 2	REV
PROJECT NO03143-1224		

REVISIONS

NO.	DATE	BY	DESCRIPTION

MAP DRWN	IG	3/10/2017	BASE DRWN		

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

Table 1, Summary of Analytical Results
BP America
Sullivan Gas Com E#1 Well Site
Spill Assessment and Closure Report
Project Number 03143-1224

Date	Sample Description	Sample Number	PID OV (ppm)	USEPA Method 418.1 TPH (ppm)	USEPA Method 8015 TPH (ppm)	USEPA Method 8021	
						Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	100	1,000	1,000	10	50
2/16/2017	Area 1 @ 4" bgs	1	16.5	**48,320**	**48,290.00**	ND	ND
2/16/2017	Area 2 @ 2" bgs	2	7.5	**1,600**	NS	NS	NS
2/16/2017	Area 3 @ 4" bgs	3	8.3	**732**	NS	NS	NS
2/16/2017	Area 2A @ 3" bgs	4	3.7	84	ND	ND	ND
2/16/2017	Area 4 @6-8" bgs	5	3	384	NS	NS	NS
2/16/2017	Area 3A @ 8-10" bgs	6	1.9	168	NS	NS	NS
2/16/2017	Area 4A @ 8-12" bgs	7	4.8	**2048**	NS	NS	NS
2/16/2017	Area 3B @ 8-12" bgs	8	NS	76	80.80	ND	ND
2/17/2017	Area 4B @ 10-12" bgs	1	1.2	**1,160**	NS	NS	NS
2/17/2017	Area 5 @ 6" bgs	2	0.4	**1,492**	NS	NS	NS
2/17/2017	Area 6 @ 2" bgs	3	2.7	**1,020**	NS	NS	NS
2/17/2017	Area 7 @ 7" bgs	4	3.0	**1,436**	NS	NS	NS
2/17/2017	Around Skid @2-7" bgs	NA	NS	NA	240.70	ND	ND
2/17/2017	Under Skid	NA	NS	NA	**37,040.00**	ND	ND
2/17/2017	Area 4C @ 4' bgs (pothole)	5	ND	24	NS	NS	NS
2/17/2017	Area 4D @ 15" bgs	6	2.2	**3,008**	NS	NS	NS
2/17/2017	Area 8 @ 2" bgs	7	0.7	36	90.80	ND	ND
2/17/2017	Area 9 @ 2" bgs	8	1.4	**6,496**	NS	NS	NS
2/17/2017	Area 4E @3' bgs	9	0.7	4	57.80	ND	ND
2/20/2017	Area 9A @ 6" bgs	1	NS	NS	403.00	ND	ND
2/20/2017	Area 10 @ 6" bgs	2	NS	NS	1,064.00	ND	ND
2/20/2017	Area 11 @ 5-6" bgs	3	NS	NS	180.20	ND	ND
2/20/2017	Area 12 @5-6" bgs	4	NS	NS	1,067.00	ND	ND

*Values in **BOLD** above regulatory limits
Closure Sample

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

APPENDIX A

Field Notes

CLIENT: BP	envirotech (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	Envmtl. Spclst: RGR	
CLIENT/JOB #: 03143-1224		C.O.C. No:	
START DATE: 2/16/17		LAT N 36°57'54.616"	
FINISH DATE:		LONG W 107°52'22.784"	
Page # 1 of 2			

Field Report: Spill Closure Verification

NMOCD Ranking: 20	Depth to GW:	WH Protection Area:	No	Yes
NMOCD TPH Closure Std.: 100	Distance to SW:			

LOCATION: Name: Sullivan Gas Com E Well #: 1 API: 30045286 41

County: San Juan State: New Mexico ~500 gallons

Cause of Release: Compressor oil leak Material Released: Oil Amt. Released: Unk

QUAD/UNIT: SEC: 22 TWP: 32N RNG: 10W PM:

Wellhead Lat/Long: Land Jurisdiction: Private QTR Footage: 600'FSL & 1540'FWL

Spill Located Approximately: 60 FT. East FROM Well Head

Excavation Approx: See notes FT. X FT. X FT. Cubic Yardage: 10+10+10 30

Disposal Facility: Land Farm 2 Remediaton Method: Land Farm

Land Use: Lease: NMNM012648 Land Owner: Private

FIELD 418.1 ANLAYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 & 500 STD	10:00	STDs				209, 450	
4" below skid plate	10:30	1	5		X40	1208	
	10:40	1	5		X80	930	
SE of skid plate 2-3" BGS	11:00	2	5	20	X4	400	1600
E of skid plate 4" BGS	13:00	3	5	20	X4	183	732
SE of skid plate 3" BGS	13:40	2a	5	20	X4	21	84
NE of skid plate 6-8" BGS	14:30	4	5	20	X4	96	384
E of skid plate 8-10" BGS	15:20	3a	5	20	X4	42	168
NE of skid plate 8-12" BGS	15:40	4a	5	20	X4	512	2048
E of skid plate 8-12" BGS	16:00	3b	5	20	X4	19	76

OVM Results

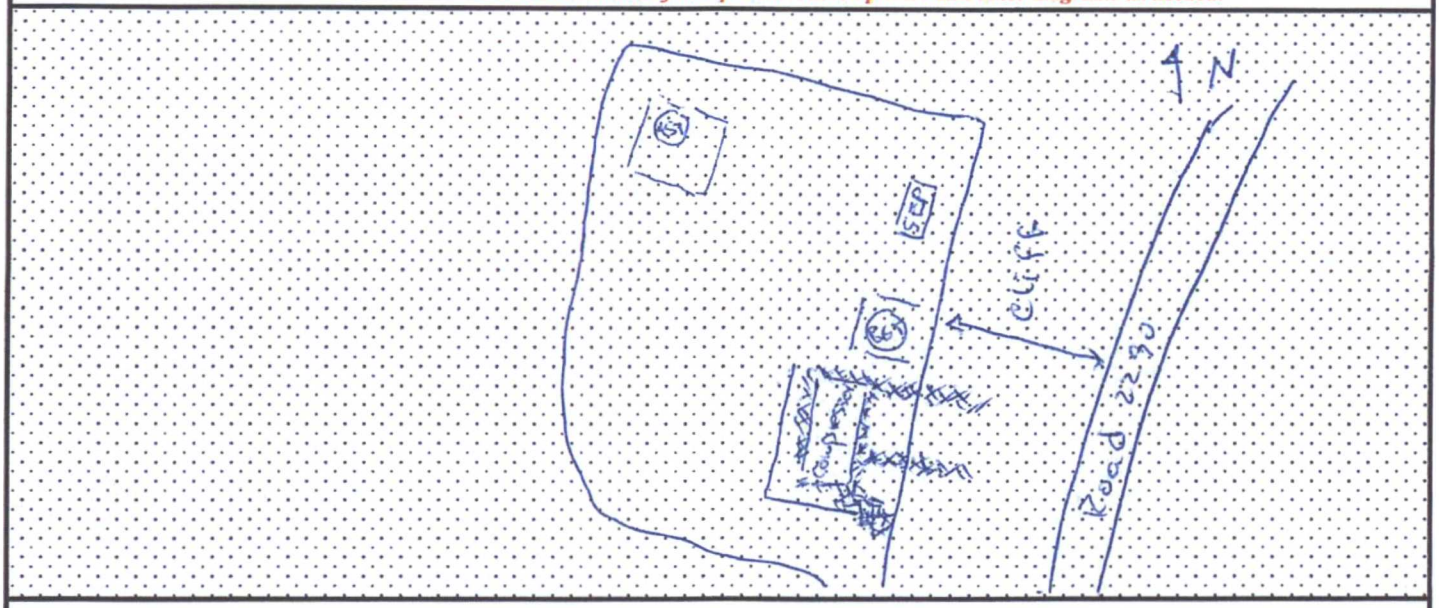
Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)
1	16.5		
2	7.5		
3	8.3		
2a	3.7		
4	3.0		
3a	1.9		
4a	4.8		

Lab Testing

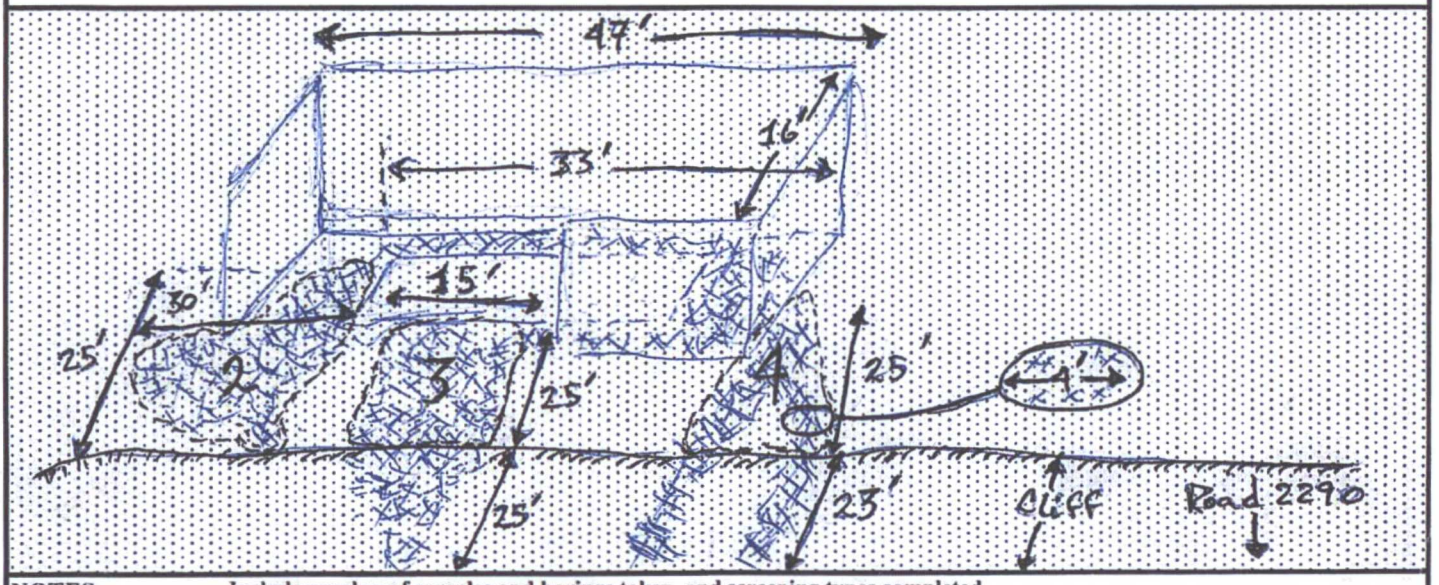
Sample ID	Analysis Type	Time
1	GRO, DRO, ORO	17:30
2a	↓	↓
3b		

3/23/2015

SPILL PERIMETER: *Draw a schematic of the spill site. Attach photos and other diagrams as needed.*



EXCAVATION PROFILE:



NOTES: **Include number of samples and borings taken, and screening types completed.**
Describe spill in narrative format including amount, source and type of product.

WO #: **Who Ordered/Site Rep:**

2/16/17

CLIENT: BP	envirotech (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	Envmtl. Spclst: Dawn	
CLIENT/JOB #: 03143-1224		C.O.C. No:	
START DATE: 2/17/17		LAT N 36° 57' 54.616"	
FINISH DATE:		LONG W 107° 52' 22.781"	
Page # 1 of 2			

Field Report: Spill Closure Verification

NMOCD Ranking: 20	Depth to GW:	WH Protection Area:	No	Yes
NMOCD TPH Closure Std.: 100	Distance to SW:			

LOCATION: Name: Sullivan Gas COM E Well #: 1 API: 300 452 8641

County: San Juan State: New Mexico

Cause of Release: Oil leak from Tank Material Released: Oil Amt. Released: ~500 Gallons

QUAD/UNIT: SEC: 22 TWP: 32N RNG: 10W PM:

Wellhead Lat/Long: Land Jurisdiction: QTR Footage: 600'S & 1500'W

Spill Located Approximately: 60 FT. East FROM Wellhead

Excavation Approx: FT. X FT. X FT. Cubic Yardage: ~10

Disposal Facility: Land Farm 2 Remediaton Method: land Farm

Land Use: Lease: NM NM 012648 Land Owner: Private

FIELD 418.1 ANLAYSIS

SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 STD	9:00	STDs				200	
NE of skid plate 10-12" BGS	9:40	4b	5	20	x4	290	1160
E of skid plate inside comp. building 6" BGS	10:10	5	5	20	x4	373	1492
W of skid plate inside comp. building 2" BGS	10:40	6	5	20	x4	255	1020
N of skid plate inside comp. building 6" BGS	10:50	7	5	20	x4	359	1436
NE of skid plate 4' BGS	13:10	4e	5	20	x4	6	24
NE of skid plate 15" BGS	13:30	4d	5	20	x4	752	3008
lube oil Tank 2' BGS	14:05	8	5	20	x4	9	36
NE of camp building down the diff 2" BGS	14:20	9	5	20	x4	1624	6496
NE of skid plate 3' BGS	15:30	4e	5	20	x4	1	4

OVM Results

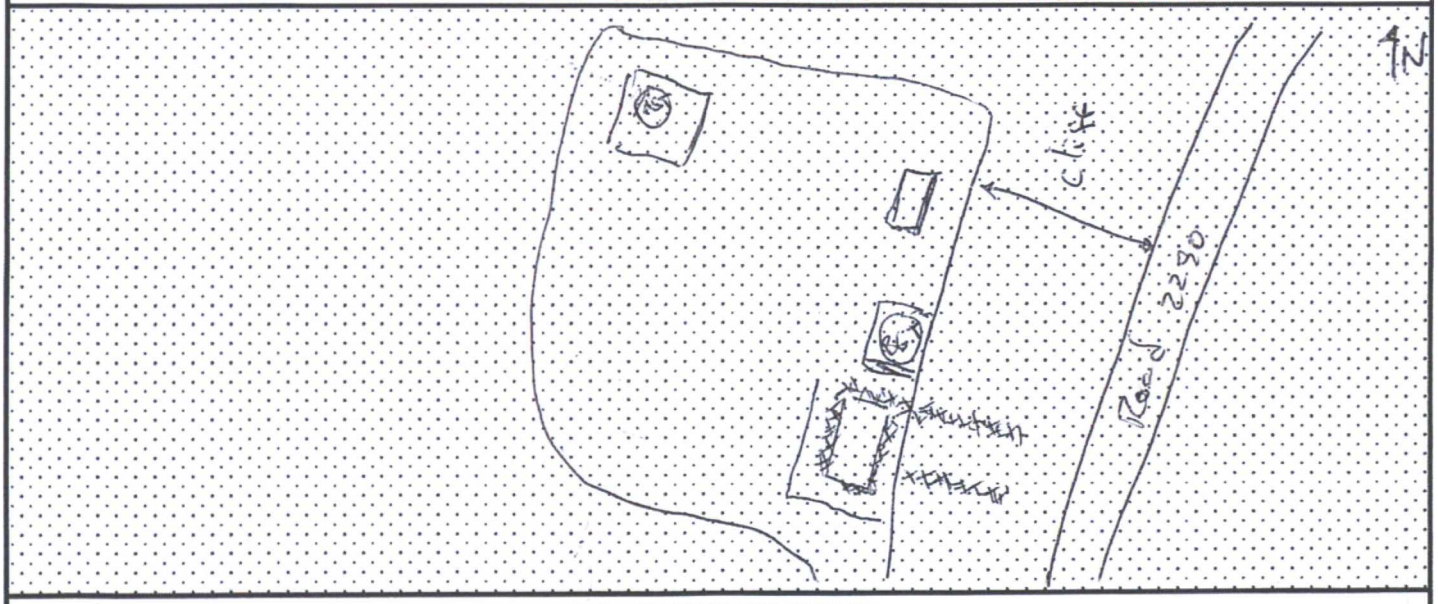
Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)
4b	1.2	9	1.4
5	0.4	4e	0.7
6	2.7		
7	3.0		
4c	ND		
4d	2.2		
8	0.7		

Lab Testing

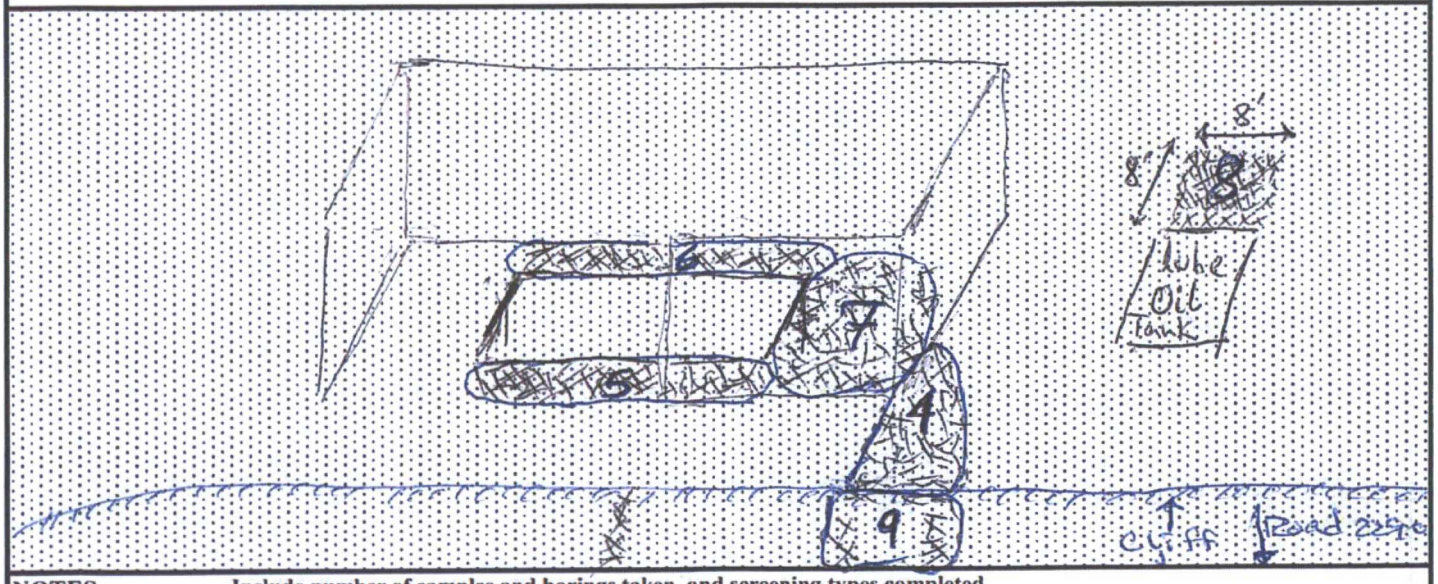
Sample ID	Analysis Type	Time
Around skid	DRO, ORO, GRO	1645
Under skid		
4e		
8		

3/23/2015

SPILL PERIMETER: *Draw a schematic of the spill site. Attach photos and other diagrams as needed.*



EXCAVATION PROFILE:



NOTES: **Include number of samples and borings taken, and screening types completed.**
Describe spill in narrative format including amount, source and type of product.

WO #: **Who Ordered/Site Rep:**

2/17/17

CLIENT:	BP	envirotech (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	**Envmtl. Spclst:** Ross
CLIENT/JOB #:	03143-1224		**C.O.C. No:**
START DATE:	2/20/17		**LAT** N 36° 57' 54.616"
FINISH DATE:			**LONG** W 107° 52' 22.781"
Page #	1 of 2		

Field Report: Spill Closure Verification

NMOCD Ranking: 20 **Depth to GW:** _____ **WH Protection Area:** No / Yes

NMOCD TPH Closure Std.: 100 **Distance to SW:**

LOCATION: Name: Sullivan Gas COM E Well #: 1 API: 300 45286 41

County: San Juan State: New Mexico

Cause of Release: Oil leak from tank Material Released: Oil Amt. Released: ~ 500 Gallons

QUAD/UNIT: _____ SEC: 22 TWP: 32N RNG: 10W PM: _____

Wellhead Lat/Long: _____ Land Jurisdiction: _____ QTR Footage: 600'S & 1540'W

Spill Located Approximately: 60 FT. East FROM Wellhead

Excavation Approx: _____ FT. X _____ FT. X _____ FT. Cubic Yardage: _____

Disposal Facility: Landfarm 2 Remediaton Method: Land Farm

Land Use: _____ Lease: NM NM 012648 Land Owner: Private

FIELD 418.1 ANLAYSIS

SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
5pt composite 6"BGS	12:00	9a					
↓	12:00	10					
5pt composite 5-6"BGS	12:30	11	Nothing was run in the field due to lack of Freon.				
↓	12:30	12					

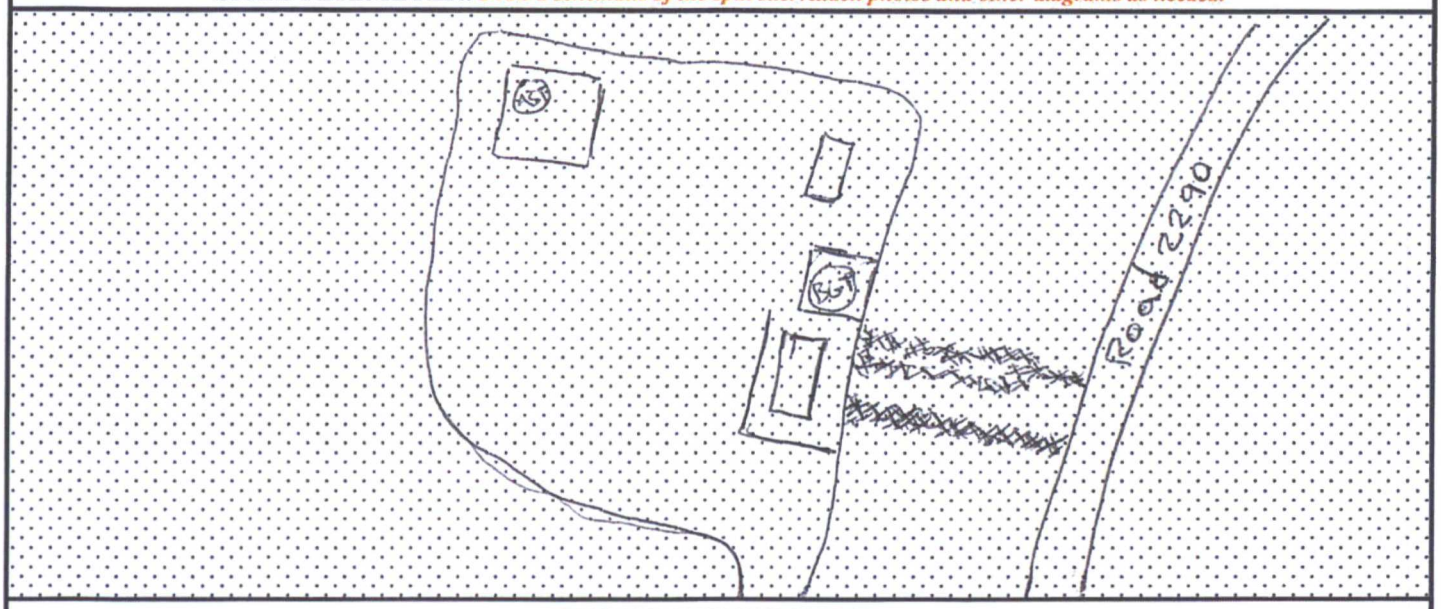
OVM Results

Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)

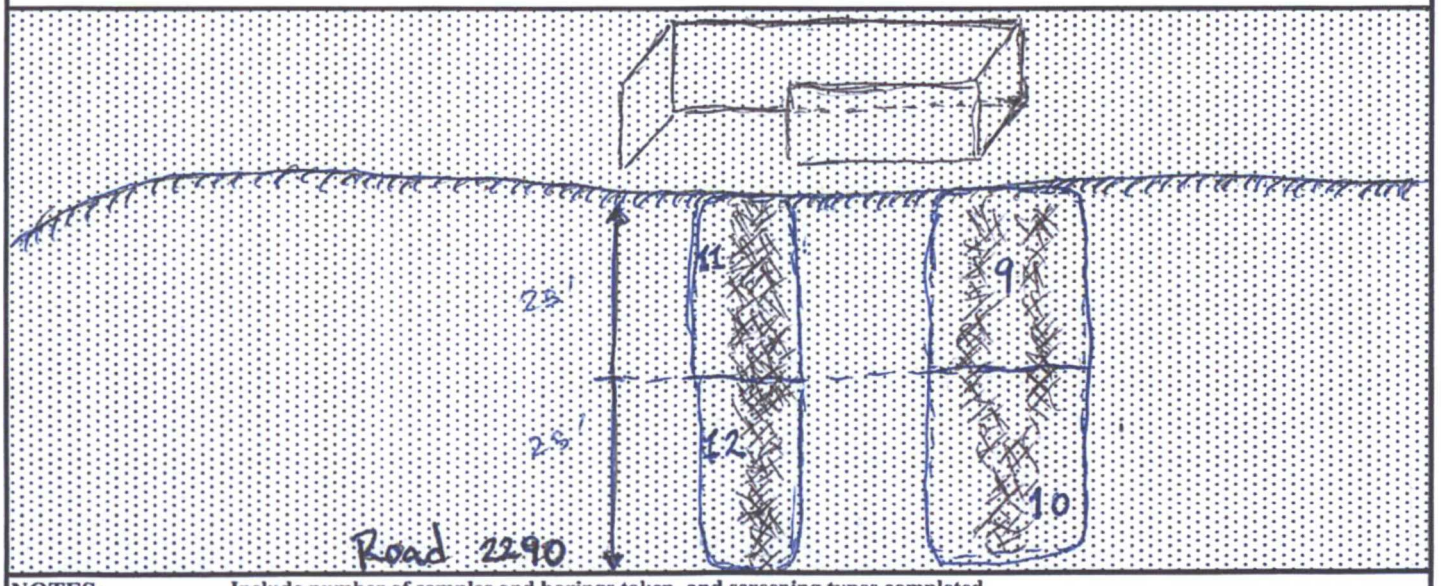
Lab Testing

Sample ID	Analysis Type	Time
9a	GRO, DRO, ORO	13:15
10	↓	↓
11		
12		

SPILL PERIMETER: *Draw a schematic of the spill site. Attach photos and other diagrams as needed.*



EXCAVATION PROFILE:



9

NOTES: Include number of samples and borings taken, and screening types completed.
Describe spill in narrative format including amount, source and type of product.

WO #: **Who Ordered/Site Rep:**

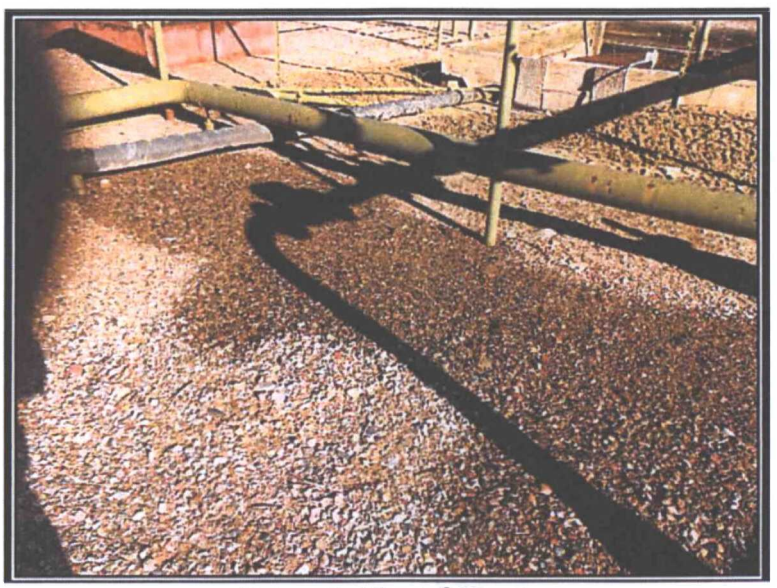
2/20/17

APPENDIX B

Site Photography

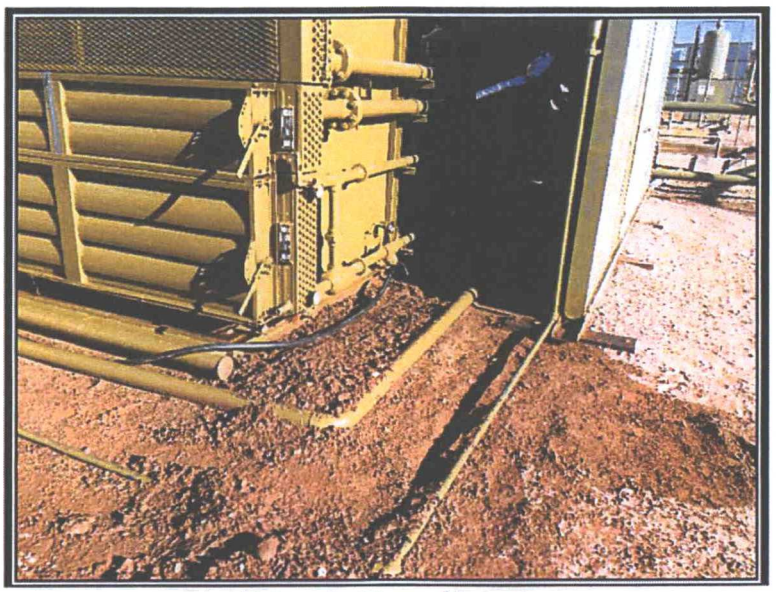
Site Photography
BP America
Sullivan Gas Com E#1 well site
Spill Assessment and Confirmation Report
Project No. 03143-1224

Picture 1: View of Area 2 and Area 3

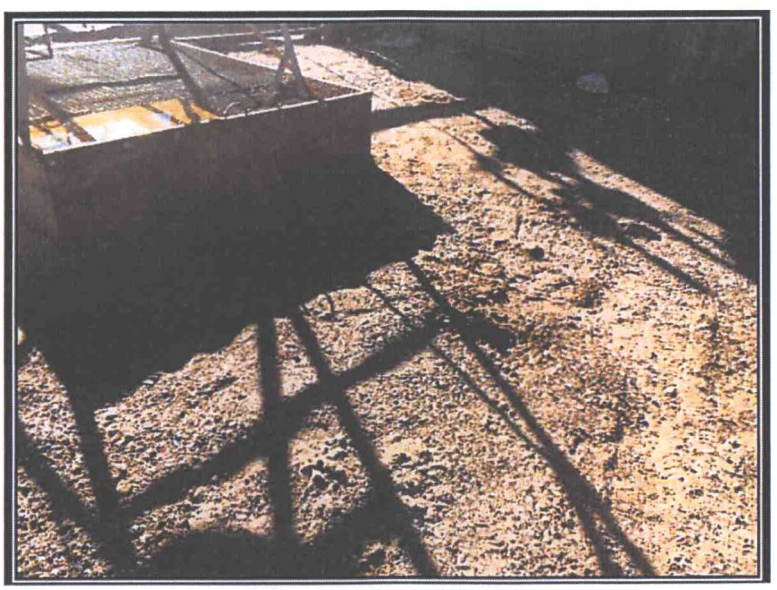


Picture 2: View of Area 4

Site Photography
BP America
Sullivan Gas Com E#1 well site
Spill Assessment and Confirmation Report
Project No. 03143-1224

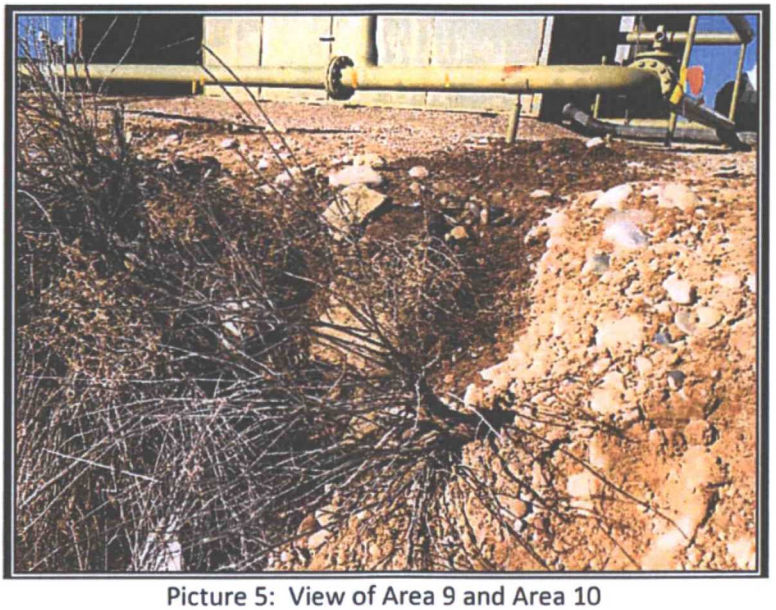


Picture 3: View of Area 5

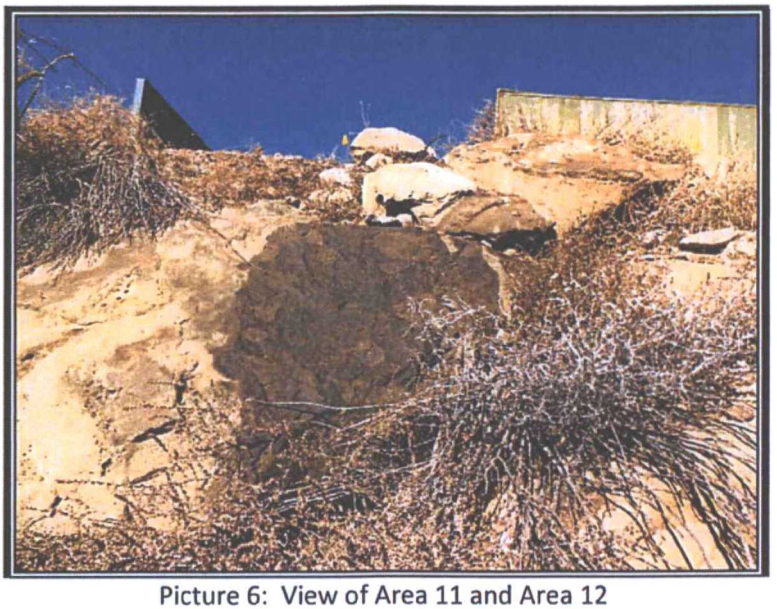


Picture 4: View of Area 8

Site Photography
BP America
Sullivan Gas Com E#1 well site
Spill Assessment and Confirmation Report
Project No. 03143-1224



Picture 5: View of Area 9 and Area 10



Picture 6: View of Area 11 and Area 12

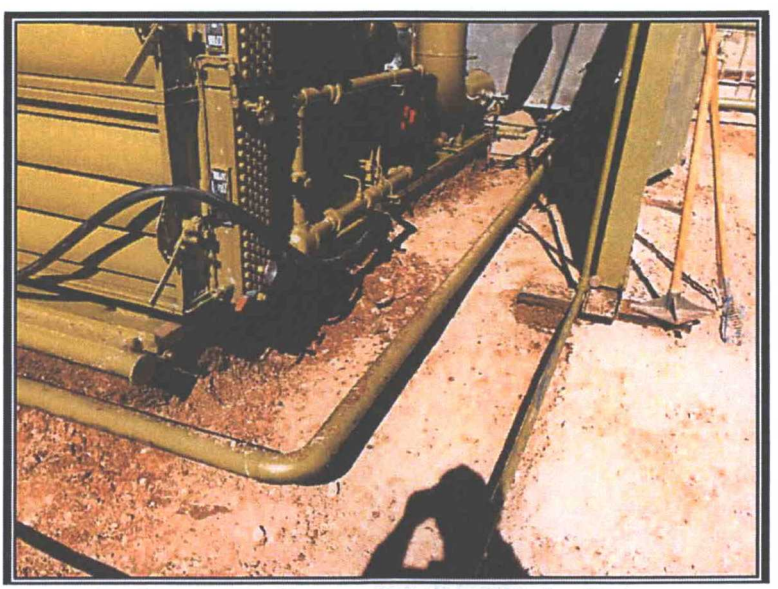
Site Photography
BP America
Sullivan Gas Com E#1 well site
Spill Assessment and Confirmation Report
Project No. 03143-1224

Picture 7: Cleanup Activities Area 2, Area 3, and Around Skid

Picture 8: Cleanup of Area 4

Site Photography
BP America
Sullivan Gas Com E#1 well site
Spill Assessment and Confirmation Report
Project No. 03143-1224

Picture 9: Cleanup of Area 6 and Area 7



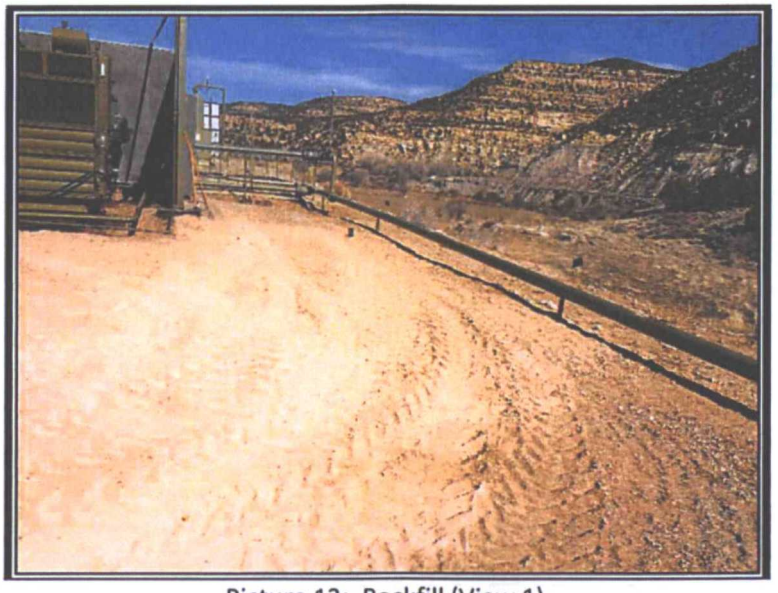
Picture 10: Cleanup Area 5 and Under Skid

Site Photography
BP America
Sullivan Gas Com E#1 well site
Spill Assessment and Confirmation Report
Project No. 03143-1224

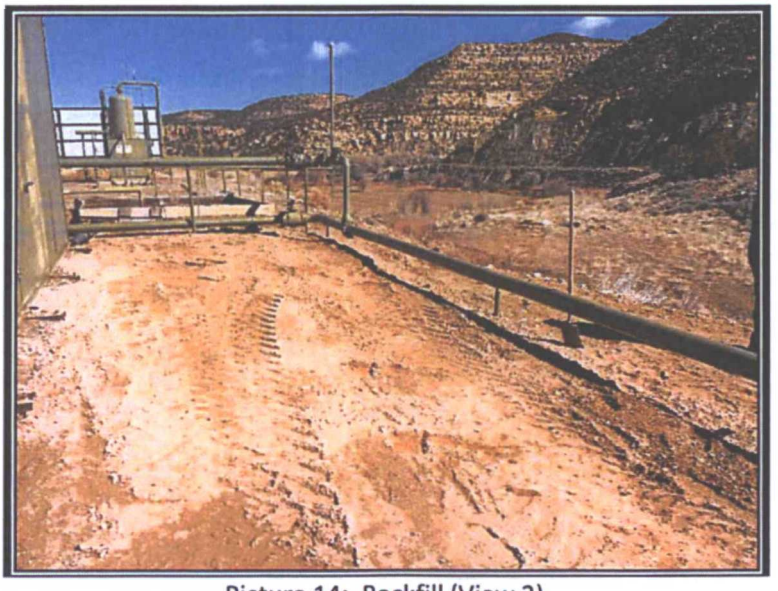
Picture 11: Cleanup of Area 9 and Area 10

Picture 12: Cleanup of Area 11 and Area 12

Site Photography
BP America
Sullivan Gas Com E#1 well site
Spill Assessment and Confirmation Report
Project No. 03143-1224



Picture 13: Backfill (View 1)



Picture 14: Backfill (View 2)

APPENDIX C

Analytical Results

envirotech

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 16-Feb-17

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	209
	500	
	1000	
	5000	

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

For Rene Garcia

Analyst

3/10/2017

Date

Rene Garcia

Print Name

Review

3/10/2017

Date

Felipe Aragon, CES

Print Name

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envirotech-inc.com
info@envirotech-inc.com

envirotech

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	1	Date Reported:	3/10/2017
Sample ID:	4" below skid plate	Date Sampled:	2/16/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**4,830**	**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: **Sullivan Gas Com E#1**

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

Analyst

Rene Garcia
Printed

Review

Felipe Aragon, CES
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info@envirotech-inc.com

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	2	Date Reported:	3/10/2017
Sample ID:	4" below skid plate	Date Sampled:	2/16/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**3,720**	**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: **Sullivan Gas Com E#1**

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

Analyst

Review

Rene Garcia
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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	3	Date Reported:	3/10/2017
Sample ID:	Area 2	Date Sampled:	2/16/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,600**	**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: **Sullivan Gas Com E#1**

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

Analyst

Rene Garcia
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Review

Felipe Aragon, CES
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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	4	Date Reported:	3/10/2017
Sample ID:	Area 3	Date Sampled:	2/16/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**732**	**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: **Sullivan Gas Com E#1**

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

Analyst

Rene Garcia
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Review

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	5	Date Reported:	3/10/2017
Sample ID:	Area 2A	Date Sampled:	2/16/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**84**	**5.0**

ND = Parameter not detected at the stated detection limit.

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

Comments: **Sullivan Gas Com E#1**

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

Analyst

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Review

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	6	Date Reported:	3/10/2017
Sample ID:	Area 4	Date Sampled:	2/16/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**384**	**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: **Sullivan Gas Com E#1**

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

Analyst

Review

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	7	Date Reported:	3/10/2017
Sample ID:	Area 3A	Date Sampled:	2/16/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**168**	**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: **Sullivan Gas Com E#1**

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

For Rene Garcia

Analyst

Review

Rene Garcia

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Felipe Aragon, CES

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	8	Date Reported:	3/10/2017
Sample ID:	Area 4A	Date Sampled:	2/16/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**2,050**	**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: **Sullivan Gas Com E#1**

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

Analyst

Rene Garcia
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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	9	Date Reported:	3/10/2017
Sample ID:	Area 3B	Date Sampled:	2/16/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**76**	**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: **Sullivan Gas Com E#1**

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

Analyst

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Review

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 17-Feb-17

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

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

Analyst — Date: 3/10/2017

Rene Garcia
Print Name

Review — Date: 3/10/2017

Felipe Aragon, CES
Print Name

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	1	Date Reported:	3/10/2017
Sample ID:	Area 4B	Date Sampled:	2/17/2017
Sample Matrix:	Soil	Date Analyzed:	2/17/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,160**	**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: **Sullivan Gas Com E#1**

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

For Rene Garcia
Analyst

Review

Rene Garcia
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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	2	Date Reported:	3/10/2017
Sample ID:	Area 5	Date Sampled:	2/17/2017
Sample Matrix:	Soil	Date Analyzed:	2/17/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,490**	**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: **Sullivan Gas Com E#1**

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

For Rene Garcia

Analyst

Rene Garcia

Printed

Review

Felipe Aragon, CES

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	3	Date Reported:	3/10/2017
Sample ID:	Area 6	Date Sampled:	2/17/2017
Sample Matrix:	Soil	Date Analyzed:	2/17/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,020**	**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: **Sullivan Gas Com E#1**

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

For Rene Garcia

Analyst

Review

Rene Garcia

Printed

Felipe Aragon, CES

Printed

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	4	Date Reported:	3/10/2017
Sample ID:	Area 7	Date Sampled:	2/17/2017
Sample Matrix:	Soil	Date Analyzed:	2/17/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,440**	**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: **Sullivan Gas Com E#1**

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

for Rene Garcia

Analyst

Rene Garcia

Printed

Review

Felipe Aragon, CES

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	5	Date Reported:	3/10/2017
Sample ID:	Area 4C	Date Sampled:	2/17/2017
Sample Matrix:	Soil	Date Analyzed:	2/17/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**24**	**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: **Sullivan Gas Com E#1**

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

for Rene Garcia
Analyst

Review

Rene Garcia
Printed

Felipe Aragon, CES
Printed

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	6	Date Reported:	3/10/2017
Sample ID:	Area 4D	Date Sampled:	2/17/2017
Sample Matrix:	Soil	Date Analyzed:	2/17/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**3,010**	**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: **Sullivan Gas Com E#1**

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

Analyst

Review

Rene Garcia
Printed

Felipe Aragon, CES
Printed

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	7	Date Reported:	3/10/2017
Sample ID:	Area 8	Date Sampled:	2/17/2017
Sample Matrix:	Soil	Date Analyzed:	2/17/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**36**	**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: **Sullivan Gas Com E#1**

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

For Rene Garcia
Analyst

Rene Garcia
Printed

Review

Felipe Aragon, CES
Printed

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	8	Date Reported:	3/10/2017
Sample ID:	Area 9	Date Sampled:	2/17/2017
Sample Matrix:	Soil	Date Analyzed:	2/17/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**6,500**	**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: **Sullivan Gas Com E#1**

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

for Rene Garcia
Analyst

Review

Rene Garcia
Printed

Felipe Aragon, CES
Printed

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	BP America	Project #:	03143-1224
Sample No.:	9	Date Reported:	3/10/2017
Sample ID:	Area 4E	Date Sampled:	2/17/2017
Sample Matrix:	Soil	Date Analyzed:	2/17/2017
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**ND**	**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: **Sullivan Gas Com E#1**

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

Analyst

Rene Garcia
Printed

Review

Felipe Aragon, CES
Printed

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Analytical Laboratory

Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 2/17/2017 7:42:00AM

Job Number: 03143-1224

Work Order: P702026

Project Name/Location: Sullivan GC E #1 Spill Assessment

Report Reviewed By: Walter Hinchman Date: 2/22/17

Walter Hinchman, Laboratory Director

Tim Cain Date: 2/22/17

Tim Cain, Quality Assurance Officer

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E#1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:27

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
1	P702026-01A	Soil	02/16/17	02/17/17	Glass Jar, 4 oz.
2a	P702026-02A	Soil	02/16/17	02/17/17	Glass Jar, 4 oz.
3b	P702026-03A	Soil	02/16/17	02/17/17	Glass Jar, 4 oz.

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:27

1

P702026-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*1707018*	*02/17/17*	*02/17/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8015D	
Diesel Range Organics (C10-C28)	**9690**	1250	mg/kg	50	1708003	02/20/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**38600**	2500	mg/kg	50	1708003	02/20/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.8 %*		*50-150*	*1707018*	*02/17/17*	*02/17/17*	*EPA 8015D*	
Surrogate: n-Nonane		*113 %*		*50-200*	*1708003*	*02/20/17*	*02/22/17*	*EPA 8015D*	

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:27

2a

P702026-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*1707018*	*02/17/17*	*02/17/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1708003	02/20/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1708003	02/20/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*		*50-150*	*1707018*	*02/17/17*	*02/17/17*	*EPA 8015D*	
Surrogate: n-Nonane		*93.3 %*		*50-200*	*1708003*	*02/20/17*	*02/22/17*	*EPA 8015D*	

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:27

3b

P702026-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1707018*	*02/17/17*	*02/17/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1707018	02/17/17	02/17/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1708003	02/20/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**80.8**	50.0	mg/kg	1	1708003	02/20/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*		*50-150*	*1707018*	*02/17/17*	*02/17/17*	*EPA 8015D*	
Surrogate: n-Nonane		*96.7 %*		*50-200*	*1708003*	*02/20/17*	*02/22/17*	*EPA 8015D*	

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:27

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
Batch 1707018 - Purge and Trap EPA 5030A										
Blank (1707018-BLK1)				Prepared: 16-Feb-17 Analyzed: 17-Feb-17						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		"	*8.00*		*95.5*	*50-150*			
LCS (1707018-BS1)				Prepared: 16-Feb-17 Analyzed: 17-Feb-17						
Benzene	5.47	0.10	mg/kg	5.00		110	70-130			
Toluene	5.47	0.10	"	5.00		109	70-130			
Ethylbenzene	5.52	0.10	"	5.00		110	70-130			
p,m-Xylene	11.2	0.20	"	10.0		112	70-130			
o-Xylene	5.36	0.10	"	5.00		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.99*		"	*8.00*		*99.9*	*50-150*			
Matrix Spike (1707018-MS1)	**Source: P702023-01**			Prepared: 16-Feb-17 Analyzed: 17-Feb-17						
Benzene	5.35	0.10	mg/kg	5.00	ND	107	54.3-133			
Toluene	5.37	0.10	"	5.00	ND	107	61.4-130			
Ethylbenzene	5.38	0.10	"	5.00	ND	108	61.4-133			
p,m-Xylene	10.9	0.20	"	10.0	ND	109	63.3-131			
o-Xylene	5.23	0.10	"	5.00	ND	105	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.09*		"	*8.00*		*101*	*50-150*			
Matrix Spike Dup (1707018-MSD1)	**Source: P702023-01**			Prepared: 16-Feb-17 Analyzed: 17-Feb-17						
Benzene	5.31	0.10	mg/kg	5.00	ND	106	54.3-133	0.824	20	
Toluene	5.29	0.10	"	5.00	ND	106	61.4-130	1.48	20	
Ethylbenzene	5.33	0.10	"	5.00	ND	107	61.4-133	0.955	20	
p,m-Xylene	10.8	0.20	"	10.0	ND	108	63.3-131	0.807	20	
o-Xylene	5.19	0.10	"	5.00	ND	104	63.3-131	0.795	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.03*		"	*8.00*		*100*	*50-150*			

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:27

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
Batch 1707018 - Purge and Trap EPA 5030A										
Blank (1707018-BLK1)				Prepared: 16-Feb-17 Analyzed: 17-Feb-17						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.82*		"	*8.00*		*97.8*	*50-150*			
LCS (1707018-BS1)				Prepared: 16-Feb-17 Analyzed: 17-Feb-17						
Gasoline Range Organics (C6-C10)	58.6	20.0	mg/kg	60.9		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.36*		"	*8.00*		*92.0*	*50-150*			
Matrix Spike (1707018-MS1)		**Source: P702023-01**		Prepared: 16-Feb-17 Analyzed: 17-Feb-17						
Gasoline Range Organics (C6-C10)	57.9	20.0	mg/kg	60.9	ND	95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.51*		"	*8.00*		*93.8*	*50-150*			
Matrix Spike Dup (1707018-MSD1)		**Source: P702023-01**		Prepared: 16-Feb-17 Analyzed: 17-Feb-17						
Gasoline Range Organics (C6-C10)	57.3	20.0	mg/kg	60.9	ND	94.1	70-130	1.04	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		"	*8.00*		*93.2*	*50-150*			

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:27

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
Batch 1708003 - DRO Extraction EPA 3570										
Blank (1708003-BLK1)				Prepared: 20-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	*40.1*		*"*	*50.0*		*80.3*	*50-200*			
LCS (1708003-BS1)				Prepared: 20-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500		94.9	38-132			
Surrogate: n-Nonane	*40.4*		*"*	*50.0*		*80.7*	*50-200*			
Matrix Spike (1708003-MS1)	**Source: P702026-02**			Prepared: 20-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	507	25.0	mg/kg	500	ND	101	38-132			
Surrogate: n-Nonane	*41.7*		*"*	*50.0*		*83.4*	*50-200*			
Matrix Spike Dup (1708003-MSD1)	**Source: P702026-02**			Prepared: 20-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	503	25.0	mg/kg	500	ND	101	38-132	0.798	20	
Surrogate: n-Nonane	*43.9*		*"*	*50.0*		*87.7*	*50-200*			

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:27

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

Client: BP

Project: Sullivan GC E#1 Spill Assessment

Sampler: Rene' Garcia Reyes

Phone: 505 947 5660

Email(s): rgarcia@envirotech-inc.com

Project Manager: FA/GWC

RUSH? ☐ 1d ☐ 3d

Page 1 of 1

Lab Use Only	
Lab WO#	P702026
Job Number	03143-1224

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS	8020 by 8015		Lab Number	Correct Cont/Prsrv (s) Y/N
1	2/16/17	10:30	Soil	1 x 4oz Jar	✓							✓		1	Y
2a	"	13:40	"	"	✓							✓		2	"
3b	"	16:00	"	"	✓							✓		3	"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2/16/17	17:30		2/17/17	7:42 am
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

**Received on Ice Y / N

T1____ T2____ T3____

AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

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

Chain of Custody

Notes/Billing info: Sample in refridgerator, ry

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Client: BP

Project: Sullivan GC E#1 Spill Assessment

Sampler: Rene Gross Reyes

Phone: 505 947 5660

Email(s): mgarcia@envirotech-inc.com

Project Manager: FA/GWC

RUSH? Per Rene 2/21/17 TC
- [X] 1d
- [ ] 3d

Lab Use Only
Lab WO# P702026
Job Number 03143-1224

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS	DRO by 8015		Lab Number	Correct Cont/Pres'v (s) Y/N
1	2/16/17	10:30	soil	1 x 4oz Jar	✓	X		Per Rene				✓		1	Y
2a	"	13:10	"	"	✓	X		2/21/17				✓		2	"
3b	"	16:00	"	"	✓	X						✓		3	"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2/16/17	17:30		2/17/17	7 42 am
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
**Received on Ice Y / N
T1____ T2____ T3____
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

[X] Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing Info: Sample in refridgerator, ig

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Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fx (800) 362-1879

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Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 2/17/2017 4:40:00PM

Job Number: 03143-1224

Work Order: P702028

Project Name/Location: Sullivan GC E #1 Spill Assessment

Report Reviewed By: Walter Hinchman Date: 2/22/17

Walter Hinchman, Laboratory Director

Tim Cain Date: 2/22/17

Tim Cain, Quality Assurance Officer

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laboratory@envirotech-inc.com

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:28

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Around Skid	P702028-01A	Soil	02/17/17	02/17/17	Glass Jar, 4 oz.
Under	P702028-02A	Soil	02/17/17	02/17/17	Glass Jar, 4 oz.
4e	P702028-03A	Soil	02/17/17	02/17/17	Glass Jar, 4 oz.
8	P702028-04A	Soil	02/17/17	02/17/17	Glass Jar, 4 oz.

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:28

Around Skid
P702028-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*95.8 %*		*50-150*	*1708008*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8015D	CCV4
Diesel Range Organics (C10-C28)	**69.7**	25.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**171**	50.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*118 %*		*50-150*	*1708008*	*02/21/17*	*02/21/17*	*EPA 8015D*	
Surrogate: n-Nonane		*84.7 %*		*50-200*	*1708010*	*02/21/17*	*02/22/17*	*EPA 8015D*	

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:28

Under
P702028-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*95.7 %*		*50-150*	*1708008*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8015D	CCV4
Diesel Range Organics (C10-C28)	**7540**	1250	mg/kg	50	1708010	02/21/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**29500**	2500	mg/kg	50	1708010	02/21/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*117 %*		*50-150*	*1708008*	*02/21/17*	*02/21/17*	*EPA 8015D*	
Surrogate: n-Nonane		*85.8 %*		*50-200*	*1708010*	*02/21/17*	*02/22/17*	*EPA 8015D*	

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:28

4e

P702028-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*		*50-150*	*1708008*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8015D	CCV4
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**57.8**	50.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*117 %*		*50-150*	*1708008*	*02/21/17*	*02/21/17*	*EPA 8015D*	
Surrogate: n-Nonane		*100 %*		*50-200*	*1708010*	*02/21/17*	*02/22/17*	*EPA 8015D*	

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:28

8

P702028-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*		*50-150*	*1708008*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1708008	02/21/17	02/21/17	EPA 8015D	CCV4
Diesel Range Organics (C10-C28)	**33.3**	25.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**57.5**	50.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*114 %*		*50-150*	*1708008*	*02/21/17*	*02/21/17*	*EPA 8015D*	
Surrogate: n-Nonane		*95.9 %*		*50-200*	*1708010*	*02/21/17*	*02/22/17*	*EPA 8015D*	

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E#1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:28

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
Batch 1708008 - Purge and Trap EPA 5030A										
Blank (1708008-BLK1)				Prepared & Analyzed: 21-Feb-17						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	*7.66*		"	*8.00*		*95.7*	*50-150*			
LCS (1708008-BS1)				Prepared & Analyzed: 21-Feb-17						
Benzene	5.45	0.10	mg/kg	5.00		109	70-130			
Toluene	5.36	0.10	"	5.00		107	70-130			
Ethylbenzene	5.33	0.10	"	5.00		107	70-130			
p,m-Xylene	10.6	0.20	"	10.0		107	70-130			
o-Xylene	5.22	0.10	"	5.00		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.76*		"	*8.00*		*97.0*	*50-150*			
Matrix Spike (1708008-MS1)	**Source: P702029-01**			Prepared & Analyzed: 21-Feb-17						
Benzene	5.49	0.10	mg/kg	5.00	ND	110	54.3-133			
Toluene	5.39	0.10	"	5.00	ND	108	61.4-130			
Ethylbenzene	5.34	0.10	"	5.00	ND	107	61.4-133			
p,m-Xylene	10.7	0.20	"	10.0	ND	107	63.3-131			
o-Xylene	5.23	0.10	"	5.00	ND	105	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.76*		"	*8.00*		*97.0*	*50-150*			
Matrix Spike Dup (1708008-MSD1)	**Source: P702029-01**			Prepared & Analyzed: 21-Feb-17						
Benzene	5.20	0.10	mg/kg	5.00	ND	104	54.3-133	5.57	20	
Toluene	5.08	0.10	"	5.00	ND	102	61.4-130	5.79	20	
Ethylbenzene	5.04	0.10	"	5.00	ND	101	61.4-133	5.68	20	
p,m-Xylene	10.1	0.20	"	10.0	ND	101	63.3-131	5.79	20	
o-Xylene	4.94	0.10	"	5.00	ND	98.8	63.3-131	5.75	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.81*		"	*8.00*		*97.7*	*50-150*			

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:28

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
Batch 1708008 - Purge and Trap EPA 5030A										
Blank (1708008-BLK1)				Prepared & Analyzed: 21-Feb-17						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*9.05*		"	*8.00*		*113*	*50-150*			
LCS (1708008-BS1)				Prepared & Analyzed: 21-Feb-17						
Gasoline Range Organics (C6-C10)	73.3	20.0	mg/kg	60.9		120	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*9.13*		"	*8.00*		*114*	*50-150*			
Matrix Spike (1708008-MS1)	**Source: P702029-01**			Prepared & Analyzed: 21-Feb-17						
Gasoline Range Organics (C6-C10)	73.8	20.0	mg/kg	60.9	ND	121	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*9.18*		"	*8.00*		*115*	*50-150*			
Matrix Spike Dup (1708008-MSD1)	**Source: P702029-01**			Prepared & Analyzed: 21-Feb-17						
Gasoline Range Organics (C6-C10)	73.2	20.0	mg/kg	60.9	ND	120	70-130	0.817	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*9.69*		"	*8.00*		*121*	*50-150*			

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:28

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
Batch 1708010 - DRO Extraction EPA 3570										
Blank (1708010-BLK1)				Prepared: 21-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	*43.8*		"	*50.0*		*87.6*	*50-200*			
LCS (1708010-BS1)				Prepared: 21-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	498	25.0	mg/kg	500		99.6	38-132			
Surrogate: n-Nonane	*42.0*		"	*50.0*		*84.0*	*50-200*			
Matrix Spike (1708010-MS1)		**Source: P702028-01**		Prepared: 21-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	556	25.0	mg/kg	500	69.7	97.2	38-132			
Surrogate: n-Nonane	*47.8*		"	*50.0*		*95.6*	*50-200*			
Matrix Spike Dup (1708010-MSD1)		**Source: P702028-01**		Prepared: 21-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	559	25.0	mg/kg	500	69.7	97.9	38-132	0.660	**20**	
Surrogate: n-Nonane	*42.7*		"	*50.0*		***85.5***	*50-200*			

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	22-Feb-17 15:28

Notes and Definitions

CCV4	CCV recovery was above quality control limits. This target analyte was not detected in the sample.
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

Client: BP
Project: Sullivan GC E#1 Spill Assessment
Sampler: RGR
Phone: 505 947 5660
Email(s): rgarcia@envirotech-inc.com
Project Manager: GC/FA

RUSH? 1d 3d

Lab Use Only
Lab WO# P702028
Job Number 03163-1224

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS	8260 by 8015		Lab Number	Correct Cont/Prsrv(s) Y/N
Around skid	2/17/17	12:36	soil	4oz Jar	X							X		1	Y
Under		12:48			X							X		2	
4e		13:30			X							X		3	
8		14:05			X							X		4	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	2/17/17	16:40	[signature]	2/17/17	1640
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
**Received on Ice Y / N
T1 ____ T2 ____ T3 ____
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____
Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

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

Chain of Custody

Notes/Billing Info:

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301
Ph (505) 632-0615 Fx (505) 632-1865
Ph (970) 259-0615 Fr (800) 362-1879
envirotech-inc.com
laboratory@envirotech-inc.com

Per Rene 2/21/17 TC

Client: BP

Project: Sullivan GC E&F Spill Assessment

Sampler: RCR

Phone: 505 947 5660

Email(s): rgarcia@envirotech-inc.com

Project Manager: GC/FA

RUSH? X 1d 3d

Lab Use Only
Lab WO# P702028
Job Number 03B-1227

Page 1 of 1

Page 12 of 12

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS	GRO by 8015		Lab Number	Correct Cont/Pres (s) Y/N
Around skid	2/17/17	12:30	soil	4oz Jar	X	X						X		1	Y
Under		12:50			X	X	Per Rene					X		2	
4e		15:30			X	X	2/21/17 TC					X		3	
8		14:05			X	X						X		4	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2/17/17	16:40		2/17/17	1640
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
**Received on ice (Y) N
T1 ____ T2 ____ T3 ____
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

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

Chain of Custody

Notes/Billing info:

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fx (800) 362-1879

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Analytical Laboratory

Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 2/20/2017 1:15:00PM

Job Number: 03143-1224

Work Order: P702030

Project Name/Location: Sullivan GC E #1 Spill Assessment

Report Reviewed By: Walter Hinchman Date: 2/23/17

Walter Hinchman, Laboratory Director

Date: 2/23/17

Tim Cain, Quality Assurance Officer

5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	23-Feb-17 10:36

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
9a	P702030-01A	Soil	02/20/17	02/20/17	Glass Jar, 4 oz.
10	P702030-02A	Soil	02/20/17	02/20/17	Glass Jar, 4 oz.
11	P702030-03A	Soil	02/20/17	02/20/17	Glass Jar, 4 oz.
12	P702030-04A	Soil	02/20/17	02/20/17	Glass Jar, 4 oz.

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	23-Feb-17 10:36

9a

P702030-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*		*50-150*	*1708008*	*02/21/17*	*02/22/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8015D	CCV4
Diesel Range Organics (C10-C28)	**80.0**	25.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**323**	50.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*117 %*		*50-150*	*1708008*	*02/21/17*	*02/22/17*	*EPA 8015D*	
Surrogate: n-Nonane		*89.3 %*		*50-200*	*1708010*	*02/21/17*	*02/22/17*	*EPA 8015D*	

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	23-Feb-17 10:36

10
P702030-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*		*50-150*	*1708008*	*02/21/17*	*02/22/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8015D	CCV4
Diesel Range Organics (C10-C28)	**225**	25.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**839**	50.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*118 %*		*50-150*	*1708008*	*02/21/17*	*02/22/17*	*EPA 8015D*	
Surrogate: n-Nonane		*99.8 %*		*50-200*	*1708010*	*02/21/17*	*02/22/17*	*EPA 8015D*	

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	23-Feb-17 10:36

11

P702030-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*		*50-150*	*1708008*	*02/21/17*	*02/22/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8015D	CCV4
Diesel Range Organics (C10-C28)	**26.2**	25.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**154**	50.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*118 %*		*50-150*	*1708008*	*02/21/17*	*02/22/17*	*EPA 8015D*	
Surrogate: n-Nonane		*98.9 %*		*50-200*	*1708010*	*02/21/17*	*02/22/17*	*EPA 8015D*	

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	23-Feb-17 10:36

12

P702030-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*		*50-150*	*1708008*	*02/21/17*	*02/22/17*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1708008	02/21/17	02/22/17	EPA 8015D	CCV4
Diesel Range Organics (C10-C28)	**230**	25.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	**837**	50.0	mg/kg	1	1708010	02/21/17	02/22/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*115 %*		*50-150*	*1708008*	*02/21/17*	*02/22/17*	*EPA 8015D*	
Surrogate: n-Nonane		*108 %*		*50-200*	*1708010*	*02/21/17*	*02/22/17*	*EPA 8015D*	

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	Reported:
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	23-Feb-17 10:36

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
Batch 1708008 - Purge and Trap EPA 5030A										
Blank (1708008-BLK1)				Prepared & Analyzed: 21-Feb-17						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	*7.66*		"	*8.00*		*95.7*	*50-150*			
LCS (1708008-BS1)				Prepared & Analyzed: 21-Feb-17						
Benzene	5.45	0.10	mg/kg	5.00		109	70-130			
Toluene	5.36	0.10	"	5.00		107	70-130			
Ethylbenzene	5.33	0.10	"	5.00		107	70-130			
p,m-Xylene	10.6	0.20	"	10.0		107	70-130			
o-Xylene	5.22	0.10	"	5.00		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.76*		"	*8.00*		*97.0*	*50-150*			
Matrix Spike (1708008-MS1)		**Source: P702029-01**		Prepared & Analyzed: 21-Feb-17						
Benzene	5.49	0.10	mg/kg	5.00	ND	110	54.3-133			
Toluene	5.39	0.10	"	5.00	ND	108	61.4-130			
Ethylbenzene	5.34	0.10	"	5.00	ND	107	61.4-133			
p,m-Xylene	10.7	0.20	"	10.0	ND	107	63.3-131			
o-Xylene	5.23	0.10	"	5.00	ND	105	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.76*		"	*8.00*		*97.0*	*50-150*			
Matrix Spike Dup (1708008-MSD1)		**Source: P702029-01**		Prepared & Analyzed: 21-Feb-17						
Benzene	5.20	0.10	mg/kg	5.00	ND	104	54.3-133	5.57	20	
Toluene	5.08	0.10	"	5.00	ND	102	61.4-130	5.79	20	
Ethylbenzene	5.04	0.10	"	5.00	ND	101	61.4-133	5.68	20	
p,m-Xylene	10.1	0.20	"	10.0	ND	101	63.3-131	5.79	20	
o-Xylene	4.94	0.10	"	5.00	ND	98.8	63.3-131	5.75	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.81*		"	*8.00*		*97.7*	*50-150*			

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	23-Feb-17 10:36

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
Batch 1708008 - Purge and Trap EPA 5030A										
Blank (1708008-BLK1)				Prepared & Analyzed: 21-Feb-17						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*9.05*		"	*8.00*		*113*	*50-150*			
LCS (1708008-BS1)				Prepared & Analyzed: 21-Feb-17						
Gasoline Range Organics (C6-C10)	73.3	20.0	mg/kg	60.9		120	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*9.13*		"	*8.00*		*114*	*50-150*			
Matrix Spike (1708008-MS1)	**Source: P702029-01**			Prepared & Analyzed: 21-Feb-17						
Gasoline Range Organics (C6-C10)	73.8	20.0	mg/kg	60.9	ND	121	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*9.18*		"	*8.00*		*115*	*50-150*			
Matrix Spike Dup (1708008-MSD1)	**Source: P702029-01**			Prepared & Analyzed: 21-Feb-17						
Gasoline Range Organics (C6-C10)	73.2	20.0	mg/kg	60.9	ND	120	70-130	**0.817**	**20**	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*9.69*		"	*8.00*		*121*	*50-150*			

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BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	23-Feb-17 10:36

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
Batch 1708010 - DRO Extraction EPA 3570										
Blank (1708010-BLK1)				Prepared: 21-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	*43.8*		*"*	*50.0*		*87.6*	*50-200*			
LCS (1708010-BS1)				Prepared: 21-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	498	25.0	mg/kg	500		99.6	38-132			
Surrogate: n-Nonane	*42.0*		*"*	*50.0*		*84.0*	*50-200*			
Matrix Spike (1708010-MS1)	**Source: P702028-01**			Prepared: 21-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	556	25.0	mg/kg	500	69.7	97.2	38-132			
Surrogate: n-Nonane	*47.8*		*"*	*50.0*		*95.6*	*50-200*			
Matrix Spike Dup (1708010-MSD1)	**Source: P702028-01**			Prepared: 21-Feb-17 Analyzed: 22-Feb-17						
Diesel Range Organics (C10-C28)	559	25.0	mg/kg	500	69.7	97.9	38-132	0.660	20	
Surrogate: n-Nonane	*42.7*		*"*	*50.0*		*85.5*	*50-200*			

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Analytical Laboratory

BP America Production Co.	Project Name:	Sullivan GC E #1 Spill Assessment	
PO Box 22024	Project Number:	03143-1224	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Felipe Aragon	23-Feb-17 10:36

Notes and Definitions

CCV4	CCV recovery was above quality control limits. This target analyte was not detected in the sample.
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

Client: BP

Project: Sullivan Gas Com F#1 Spill Assessment

Sampler: René García Reyes

Phone: 505 947 5660

Email(s): rgarcia@envirotech-inc.com

Project Manager: GC / FA

RUSH? 1d 3d

Lab Use Only
Lab WO# P702030
Job Number 03148-1224

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS	ORO by 8015		Lab Number	Correct Cont/Prsrv(s) Y/N
					Analysis and Method									Lab Only	
9a	2/20/17	12:00	Soil	4oz Jar	✓							✓			✓
10		12:00			✓							✓			✓
11		12:30			✓							✓			✓
12		12:30			✓							✓			✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2/20/17	13:15		2.20.17	1315
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
**Received on ice Y / N
T1____ T2____ T3____
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

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

Chain of Custody

Notes/Billing info:

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879
envirotech-inc.com
laboratory@envirotech-inc.com

Client: BP

Project: Sullivan Gas Com E#1 Spill Assessment

Sampler: René García Reyes

Phone: 505 947 5660

Email(s): rgarcia@envirotech-inc.com

Project Manager: GC / FA

RUSH? [X] 1d [ ] 3d — per Rene 2/21/17 TC

Lab Use Only — Lab WO#: P702030

Job Number: 03143-1224

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS	ORO by 8015		Lab Number	Correct Cont/Prsrv(s) Y/N
9a	2/20/17	12:00	Soil	4oz Jar	✓	X						✓			✓
10	↓	12:00	↓	↓	✓	X (per Rene 2/21/17 TC)						✓			✓
11	↓	12:30	↓	↓	✓	X						✓			✓
12	↓	12:30	↓	↓	✓	X						✓			✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	2/20/17	13:15	[signature]	2·20·17	1315
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

**Received on Ice (Y) / N

T1____ T2____ T3____

AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ______

Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

[ ] Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info:

APPENDIX D

Bills of Lading

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Bill of Lading

MANIFEST # 56045
GENERATOR Arch Rock
POINT OF ORIGIN Sullivan Gas com E1
TRANSPORTER CAUDER
DATE 2-16-17 JOB # 1509G-001D

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II-5	cont soil	J-18	10	-	-	331	14:35	
2	" "	" "	J-18	10	-	-	329	15:20	
				20					

RESULTS			LANDFARM EMPLOYEE	NOTES
<303	CHLORIDE TEST	1	EL	
	PAINT FILTER TEST	1	Certification of above receival & placement	

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

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Bill of Lading

MANIFEST # 56050
GENERATOR ArchRock
POINT OF ORIGIN Sullivan Gas Com E 1
TRANSPORTER Calder Service
DATE 2-17-17 JOB # 15096-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II-5	Con't Soil	J-18	10	-		331	8:16	
2	LF II-5	" "	J18	10	-		329	1540	
				20					

RESULTS			LANDFARM EMPLOYEE	NOTES
< 323	CHLORIDE TEST	1	Gary Colinson EL	
	PAINT FILTER TEST	1	Certification of above receival & placement	

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy**

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Bill of Lading

MANIFEST # 56055
GENERATOR Archrock
POINT OF ORIGIN Sullivan Gas Com E 1
TRANSPORTER Calder service
DATE 2-20-17 JOB # 15096-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II-5-	Cont soil	J-18	6.			329	8:38	
2	" "	" "	J-18	10			329	12:55	
3.	LF II-5	Cont- Soil	J-18	10			329	15:35	
				26					

RESULTS			LANDFARM EMPLOYEE	NOTES
< 303	CHLORIDE TEST	1	Corey Robinson EL	
	PAINT FILTER TEST	1	Certification of above receival & placement	

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy