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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

30-045-12203

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **Burlington Resources, A Wholly Owned Subsidiary of ConocoPhillips Company**		Contact **Kelsi Harrington**	
Address **3401 E. 30th St., Farmington, NM 87402**		Telephone No. **505-599-3403**	
Facility Name **Hubbard 1**		Facility Type **Gas Well**	API #**3004512203**
Surface Owner **Private**	Mineral Owner **Federal**		Lease No. **SF-078312**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	**22**	**32N**	**12W**	**990'**	**North**	**1650'**	**East**	**San Juan**

Latitude 36.97621° N Longitude -108.07895° W

NATURE OF RELEASE

Type of Release – **Produced Water & Condensate**	Volume of Release – **6 BBL (3 BBL PW & 3 BBL Condensate)**	Volume Recovered – **0 BBL**
Source of Release: **Production Tank**	Date and Hour of Occurrence **unknown**	Date and Hour of Discovery **7/27/10 8:30 a.m.**
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.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* **On July 27, 2010, it was discovered that the Production tank was leaking due to corrosion. Upon discovery, the well was shut in and the contents of the tank were pulled.**

Describe Area Affected and Cleanup Action Taken.* **All fluid remained within the berm. Excavation and confirmation sampling occurred. Analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is needed.**

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: Kelsi Harrington	OIL CONSERVATION DIVISION	
Printed Name: **Kelsi Harrington**	Approved by District Supervisor: Jonathan P. Kelly	
Title: **Environmental Consultant**	Approval Date: 12/02/2010	Expiration Date:
E-mail Address: **kelsi.g.harrington@conocophillips.com**	Conditions of Approval:	Attached ☐
Date: **12/1/10** Phone: **505-599-3403**		

* Attach Additional Sheets If Necessary

nJK1133648970

RECEIVED
NOV 2010
OIL CONS

envirotech

October 7, 2010

Project Number 92115-1376
92115-1406

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

Phone: (505) 599-3403
Cell: (505) 320-2461

RE: SPILL ASSESSMENT AND CONFIRMATION SAMPLING DOCUMENTATION FOR THE HUBBARD #1 (HBR), SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for spill assessment and confirmation sampling activities performed at the Hubbard #1 (hBr) well site located in Section 22, Township 32 North, Range 12 West, San Juan County, New Mexico. A brief site assessment was conducted, and the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors due to a horizontal distance to surface water less than 200 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

On July 28, 2010, Envirotech personnel were onsite to perform spill assessment activities around a leaking above-grade storage tank (AST). Thirteen samples were collected from various locations and depths around the site; see enclosed ***Site Map*** for sample locations. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The samples collected from the southeast corner of the berm and outside the fence returned results below the regulatory standards for TPH and organic vapors, but all other samples returned results above the regulatory standards for TPH and organic vapors.

Prior to Envirotech's return on September 10, 2010, the area of the release had been excavated to extents of approximately 98 feet by 87 feet by 15 feet deep. Five (5) composite samples were collected from the excavation. One (1) sample was collected from each of the four (4) walls, and one (1) sample was collected from the bottom at 15 feet BGS. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The composite sample from the bottom of the excavation returned results above the regulatory standards for both TPH and organic vapors, and the composite samples from the walls returned results below the regulatory standards for both TPH and organic vapors; see enclosed ***Field Notes***. The sample collected from the bottom of the excavation was then collected into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for benzene and BTEX using USEPA Method 8021. The sample returned results below the regulatory standards for all constituents analyzed; see enclosed ***Analytical Results***. Therefore, Envirotech, Inc. recommends no further action in regards to this incident.

We appreciate the opportunity to be of service. Should you have any questions or require additional information, please contact our office at (505) 632-0615.

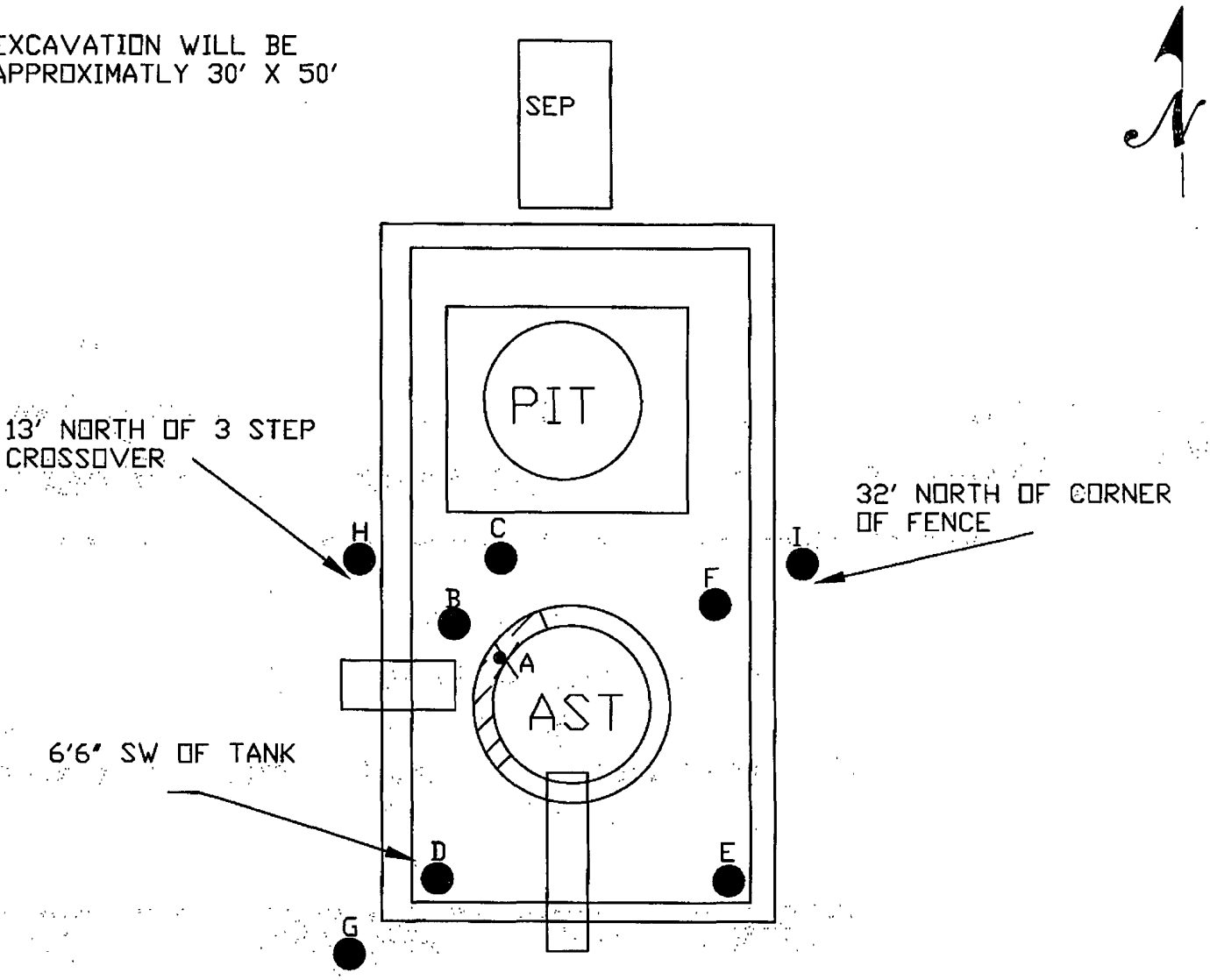
Respectfully Submitted,
ENVIROTECH, INC.

Scott Gonzales
Senior Environmental Field Technician
sgonzales@envirotech-inc.com

Enclosure(s): Site Map
Field Notes
Analytical Results

Cc: Client File 92115

EXCAVATION WILL BE
APPROXIMATLY 30' X 50'



X LEAK LOCATION

VISUAL EXTENTS

AUGER POINTS 4' 6" TO 5' DEPTH

A- 5 PT SURFACE COMP- 5588 TPH/ 1148 OV
A- 1'8" BGS- 6860 TPH/ 1439 OV
A- 4' BGS- 2484 TPH/ 1162 OV
A- 5' BGS- 4024 TPH/ 1130 OV
A- 5' DIAGONAL- 2500 TPH/ 623 OV
B- 4' BGS STRONG CONDENSATE ODOR
C- 4' BGS STRONG CONDENSATE ODOR
D- SW CORNER 2532 TPH/ 786 OV
E- SE CORNER- 48 TPH/ 2.1 OV
F- NE OF TANK- 4296 TPH/ 790 OV
G- SW OUTSIDE OF FENCE- 24 TPH/2.0 OV
H- NW OUTSIDE OF FENCE- 28 TPH/2.3 OV
I- NE OUTSIDE OF FENCE- 16 TPH/1.0 OV

SITE MAP
CONOCO PHILLIPS
HUBBARD #1
SITE ASSESSMENT
SECTION 22, TOWNSHIP 32N, RANGE 12W

SCALE: NTS	FIGURE NO. 1	REV
PROJECT NO92115-1376		

REVISIONS

NO.	DATE	BY	DESCRIPTION

MAP DRWN	BWW	7-29-10	BASE DRWN		

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

Client: Conoco Phillips

envirotech
(505) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

Location No: 92115-1376
C.O.C. No:

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1
DATE STARTED: 7-28-10
DATE FINISHED: 7-28-10
ENVIRONMENTAL SPECIALIST: B. Williamson

LOCATION: NAME: Hubbard WELL #: 1
QUAD/UNIT: SEC: 22 TWP: 32N RNG: 12W PM: CNTY: SJ ST: NM
QTR/FOOTAGE: CONTRACTOR:

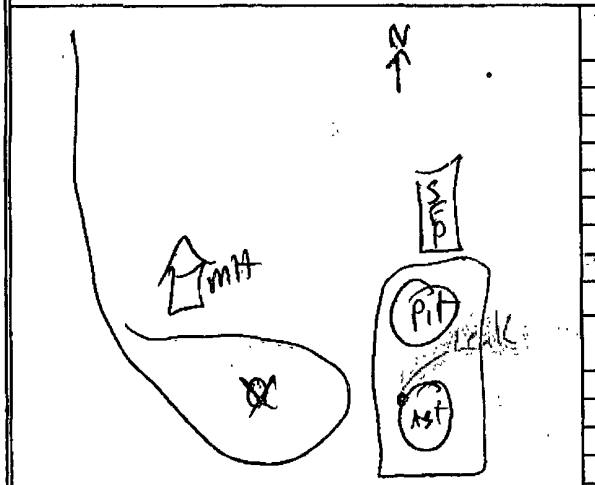
EXCAVATION APPROX: N/A FT. X FT. X FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: N/A REMEDIATION METHOD: Removal
LAND USE: ~~Pedant~~ Grazing LEASE: 30045 12203 LAND OWNER: Federal
CAUSE OF RELEASE: Leak in AST MATERIAL RELEASED: Condensate/water

SPILL LOCATED APPROXIMATELY: West side ~~FT. OF~~ AST ~~FROM~~
DEPTH TO GROUNDWATER: 103' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: 76 feet
NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: Small leak in tank bottom on west side of tank bottom. Absorbant on surface of spill, moved Absorbant of location and collected Composite of spill area. At 5' TPH still present. Diagonal Augered under tank @ ~45° collected sample (OV screens → LEL overranged (OFF)) Collected Samples from Surface/1'8"/4'/5' and held them for Kelsi Harrington to advise which she wants to run in lab.

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
~~5 point~~ STD-214	12:07	STD	—	—	—	—	213	
5 point Composite Surface	12:12	(1)	—	5	20	4	1397	5588
1'8" BGS Leak	12:26	(2)	—	5	20	4	1715	6860
4' BGS Leak	12:46	(3)	—	5	20	4	621	2484
5' BGS Leak	13:03	(4)	—	5	20	4	1006	4024
Diagonal under tank	13:37	(5)	—	5	20	4	625	2500
SW Corner of Berm	14:55	(6)	—	5	20	4	633	2532
SE Corner of Berm	15:24	(7)	—	5	20	4	12	48
NE Side of AST	16:07	(8)	—	5	20	4	1074	4296

SPILL PERIMETER



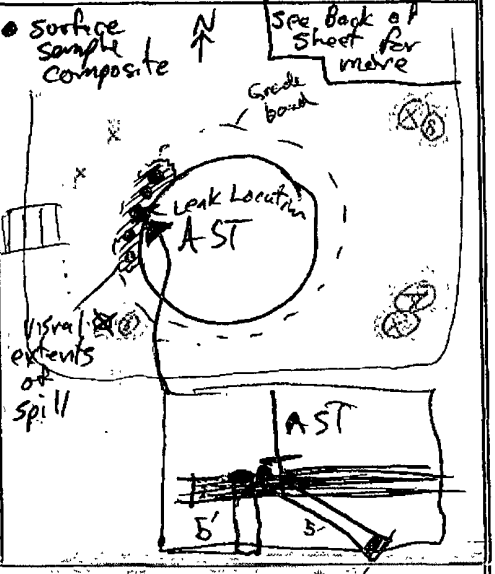
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
(1)	1148
(2)	1434
(3)	1162
(4)	1130
(5)	623
(6)	786
(7)	2.1
(8)	740

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

SPILL PROFILE



TRAVEL NOTES: CALLED OUT: 7-28-10 ONSITE: @ 11:40

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	1	Date Reported:	9/21/2010
Sample ID:	Surface under leak	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**5,590**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
Printed

Review

Sarah Rowland, EIT
Printed

5796 US Highway 64, Farmington, NM 87401 | Ph (505)632-0615 Fr (800)362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	2	Date Reported:	9/21/2010
Sample ID:	20" BGS under leak	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**6,860**	**5.0**

ND = Parameter not detected at the stated detection limit.

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

Comments: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
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Review

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	3	Date Reported:	9/21/2010
Sample ID:	4' BGS under leak	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**2,480**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
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Review

Sarah Rowland, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	4	Date Reported:	9/21/2010
Sample ID:	5' BGS under leak	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**4,020**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	5	Date Reported:	9/21/2010
Sample ID:	5' diagonal under AST	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**2,500**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	6	Date Reported:	9/21/2010
Sample ID:	Southwest corner of berm	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**2,530**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	7	Date Reported:	9/21/2010
Sample ID:	Southeast corner of berm	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**48**	**5.0**

ND = Parameter not detected at the stated detection limit.

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

Comments: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	8	Date Reported:	9/21/2010
Sample ID:	Northeast side of AST	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**4,300**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
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Review

Sarah Rowland, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	9	Date Reported:	9/21/2010
Sample ID:	Southwest corner outside fence	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
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Sarah Rowland, EIT
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	10	Date Reported:	9/21/2010
Sample ID:	Northwest corner outside fence	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**28**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
Printed

Review

Sarah Rowland, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1376
Sample No.:	11	Date Reported:	9/21/2010
Sample ID:	Northeast corner outside fence	Date Sampled:	7/28/2010
Sample Matrix:	Soil	Date Analyzed:	7/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**16**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
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Sarah Rowland, EIT
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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 28-Jul-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	214	213
	500	
	1000	

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

Analyst

9/21/2010
Date

Barian Williamson
Print Name

Review

9/21/2010
Date

Sarah Rowland, EIT
Print Name

5796 US Highway 64, Farmington, NM 87401 Ph (505)632-0615 Fr (800)362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

...nt: ConocoPhillips	envirotech (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	Location No: C.O.C. No:

...ELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

DATE STARTED: 9-10-10

DATE FINISHED: 9-10-10

...CATION: NAME: Hubbard WELL #: 1

...AD/UNIT: SEC: 22 TWP: 32N RNG: 12W PM: NMPM CNTY: SJ ST: NM

.../FOOTAGE: CONTRACTOR:

ENVIRONMENTAL SPECIALIST: SG

...CAVATION APPROX: 98 FT. X 87 FT. X 15 FT. DEEP CUBIC YARDAGE:

...POSAL FACILITY: REMEDIATION METHOD: Landfarm

...ND USE: LEASE: [illegible] LAND OWNER:

...USE OF RELEASE: [illegible] MATERIAL RELEASED: [illegible]

...L LOCATED APPROXIMATELY: 70 FT. 80° FROM Wellhead

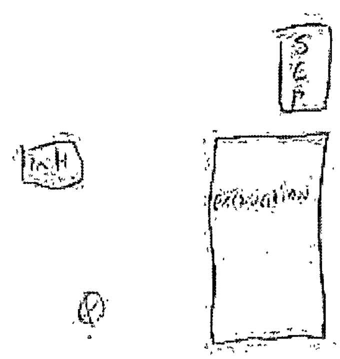
...TH TO GROUNDWATER: 103' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: 76'

...OCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

...L AND EXCAVATION DESCRIPTION:

...MPLE DESCRIPITION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 std	11:05	200 std					208	
Bottom 5pt Comp							56	120
North wall							20	80
South wall							16	24
East wall							22	88
West wall							16	64

SPILL PERIMETER



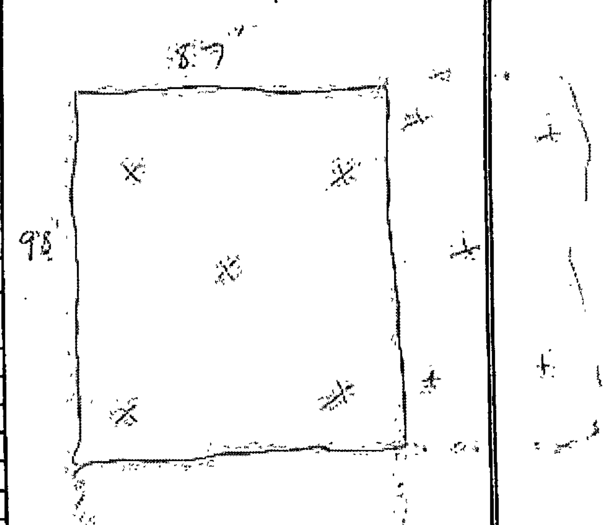
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
Bottom	476
N wall	0.3
S wall	ND
E wall	1.1
W wall	0.8

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

SPILL PROFILE



...VEL NOTES: CALLED OUT: ONSITE:

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1406
Sample No.:	1	Date Reported:	9/20/2010
Sample ID:	Bottom	Date Sampled:	9/10/2010
Sample Matrix:	Soil	Date Analyzed:	9/10/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**120**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Scott Gonzales
Printed

Review

Sarah Rowland, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1406
Sample No.:	2	Date Reported:	9/20/2010
Sample ID:	North Wall	Date Sampled:	9/10/2010
Sample Matrix:	Soil	Date Analyzed:	9/10/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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

ND = Parameter not detected at the stated detection limit.

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

Comments: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Scott Gonzales
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Review

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1406
Sample No.:	3	Date Reported:	9/20/2010
Sample ID:	South Wall	Date Sampled:	9/10/2010
Sample Matrix:	Soil	Date Analyzed:	9/10/2010
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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Scott Gonzales
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Review

Sarah Rowland, EIT
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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1406
Sample No.:	4	Date Reported:	9/20/2010
Sample ID:	East Wall	Date Sampled:	9/10/2010
Sample Matrix:	Soil	Date Analyzed:	9/10/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**88**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Scott Gonzales
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Review

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1406
Sample No.:	5	Date Reported:	9/20/2010
Sample ID:	West Wall	Date Sampled:	9/10/2010
Sample Matrix:	Soil	Date Analyzed:	9/10/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**64**	**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: **Hubbard #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Scott Gonzales
Printed

Review

Sarah Rowland, EIT
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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 10-Sep-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	206	200
	500	
	1000	

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

Analyst

9/20/2010
Date

Scott Gonzales
Print Name

Review

9/20/2010
Date

Sarah Rowland, EIT
Print Name

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips (hBr)	Project #:	92115-1406
Sample ID:	Bottom Comp	Date Reported:	09-14-10
Laboratory Number:	55835	Date Sampled:	09-10-10
Chain of Custody No:	10333	Date Received:	09-10-10
Sample Matrix:	Soil	Date Extracted:	09-13-10
Preservative:	Cool	Date Analyzed:	09-14-10
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Hubbard #1**

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-14-10 QA/QC	Date Reported:	09-14-10
Laboratory Number:	55835	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-14-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	09-14-10	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	09-14-10	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**255**	**102%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**249**	**100%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 55835, 55837-55838, 55842-55844**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips (hBr)	Project #:	92115-1406
Sample ID:	Bottom Comp	Date Reported:	09-14-10
Laboratory Number:	55835	Date Sampled:	09-10-10
Chain of Custody:	10333	Date Received:	09-10-10
Sample Matrix:	Soil	Date Analyzed:	09-14-10
Preservative:	Cool	Date Extracted:	09-13-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**8.7**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**8.7**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94.3 %**
	1,4-difluorobenzene	**103 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Hubbard #1**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0914BBLK QA/QC	Date Reported:	09-14-10
Laboratory Number:	55835	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-14-10
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	5.2517E+006	5.2622E+006	**0.2%**	**ND**	**0.1**
Toluene	2.4419E+006	2.4468E+006	**0.2%**	**ND**	**0.1**
Ethylbenzene	1.7508E+006	1.7543E+006	**0.2%**	**ND**	**0.1**
p,m-Xylene	3.4997E+006	3.5067E+006	**0.2%**	**ND**	**0.1**
o-Xylene	1.1525E+006	1.1548E+006	**0.2%**	**ND**	**0.1**

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	**ND**	**ND**	**0.0%**	**0 - 30%**	**0.9**
Toluene	**ND**	**ND**	**0.0%**	**0 - 30%**	**1.0**
Ethylbenzene	**ND**	**ND**	**0.0%**	**0 - 30%**	**1.0**
p,m-Xylene	**8.7**	**8.2**	**5.7%**	**0 - 30%**	**1.2**
o-Xylene	**ND**	**ND**	**0.0%**	**0 - 30%**	**0.9**

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	%Recovery	Accept Range
Benzene	**ND**	**500**	**474**	**94.8%**	**39 - 150**
Toluene	**ND**	**500**	**482**	**96.3%**	**46 - 148**
Ethylbenzene	**ND**	**500**	**497**	**99.5%**	**32 - 160**
p,m-Xylene	**8.7**	**1000**	**1,020**	**101%**	**46 - 148**
o-Xylene	**ND**	**500**	**496**	**99.1%**	**46 - 148**

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 55835, 55837-55838, 55843-55844**

Analyst

Review

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CHAIN OF CUSTODY RECORD

10333

Client: (LBr) ConocoPhillips	Project Name / Location: Hubbard #1
Client Address:	Sampler Name: Scott Gonzales
Client Phone No.:	Client No.: 92115-1406

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl	Preservative HCl	Preservative ICE	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Bottom Comp	9-10-10	13:30	55835	~~Soil~~ Sludge Solid Aqueous	1-4oz			✓	✓	✓												Y	Y
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	9-10-10	14:30	Brandy [signature]	9/10	14:30
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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