

District I
 P.O. Box 1980, Hobbs, NM 88240
 District I
 DEPUTY OIL & GAS INSPECTOR
 District I
 1000 Rio Brazos Rd., Hobbs, NM 88240

State of New Mexico
 Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO
 APPROPRIATE
 DISTRICT OFFICE
 AND 1 COPY TO
 SANTA FE OFFICE

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

AUG 25 1997

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Phillips Petroleum Company Telephone: (505) 599-3400

Address: 5525 Hwy. 64, NBU 3004, Farmington, NM 87401

Facility Or: San Juan 29 - 6 Unit # 14 A

Well Name

Location: Unit or Qtr/Qtr Sec NESE Sec 7 T 29N R 6W County Rio Arriba

Pit Type: Separator Dehydrator _____ Other _____

Land Type: BLM State _____ Fee _____, Other _____

Pit Location: (Attach diagram) Pit dimensions: Length 18 ft, width 18 ft, depth 3 ft

Reference: wellhead other _____

Footage from reference: 50 ft

Direction from reference: 60 Degrees East North
 of
 West South _____

Depth to Ground Water:	<u>160 ft</u>	Less than 50 feet	(20 points)	
(vertical distance from		50 ft to 99 feet	(10 points)	
contaminants to seasonal		Greater than 100 feet	(0 points)	<u>0</u>
highwater elevation of				
ground water)				

Wellhead Protection Area:		Yes	(20 points)	
(less than 200 feet from a private		<input checked="" type="checkbox"/> No	(0 points)	<u>0</u>
domestic water source, or: less than				
1000 feet from all other water sources)				

Distance to Surface Water:		Less than 200 feet	(20 points)	
(Horizontal distance to perennial		200 feet to 1000 feet	(10 points)	
lakes, ponds, rivers, streams, creeks,		Greater than 1000 feet	(0 points)	<u>0</u>
irrigation canals and ditches.)				

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DIST. 3

Date Remediation Started: 1/04/94 Dated Completed: 7/20/95
Excavation Approx. cubic yards 82
Landfarmed Insitu Bioremediation _____
Other _____

Remediation Method: Onsite Offsite _____

(Check all appropriate sections)

General Description of Remedial Action- The site was assessed on 1/04/94. The pit was excavated on 7/20/95 and tested below NMOCD and BLM guidelines. The landfarm was determined to be within guidelines on 4/11/95.

Ground Water Encountered: No Yes _____ Depth _____

Final Pit:
Closure Sampling
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample location Center of pit
Sample depth 18' below ground level *Bedrock
Sample date 7/20/95 Sample time 13:00

Sample Results

Benzene(ppm) 1.26 *Bedrock
Total BTEX (PPM) 89.06 *Bedrock
Field Headspace (ppm) _____
TPH 1951 ppm

Ground Water Sample: Yes No (if yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETED TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 6-20-99 PRINTED NAME Bob Wirtanen
SIGNATURE Robert A. Wirtanen and TITLE Sr. Safety & Environmental Specialist

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT NO: PA119

C.O.C. NO: 3296

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: PHILLIPS PETROLEUM
CONTRACTOR: ENVIROTECH INC.
EQUIPMENT USED: CASE EXTEND-A-DIG

DATE STARTED: 1-4-94
DATE FINISHED: 1-4-94
EMVRO. SPCLT: REO
OPERATOR: CIMARRON
ASSISTANT: K.S.

LOCATION: LEASE: San Juan 29-6 WELL: # 14A QD: 1830' FSL & 1150' FEL (I)
SEC: 7 TWP: 29N RNG: 6W PM: NM CNTY: R.A. ST: NM PIT: Sep.

LAND USE: Range - Lease #SF-080379

SURFACE CONDITIONS: Earthen Pit - Fenced

PIT CENTER IS LOCATED APPROXIMATELY 50 FEET N 60° W OF WELLHEAD.

CLOSURE STD: 5000 ppm TPH

RANKING SCORE: 0

T1: Moist, brown, silty clay - moderate odor
Light gray at 9' to dark gray at 10-11'
T2: Moist, brown, silty clay - No odor
Orange/brown

SAMPLE ID	SMPL TYPE	Laboratory Analysis
T1@6'	Soil	10,920ppm
T1@11'	Soil	346ppm
T1@11'	DUP	256ppm
T1@11'	Soil	418.1/BTEX
T1@17'	Soil	BTEX

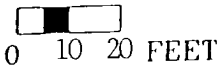
1412 : Dilute 10:1 = 546x2x10 = 10,920 - GAC#0359
173x2 = 346 - GAC#0360
128x2 = 256 - GAC#0360-D

Recommend remediation & Further Testing beyond pit boundaries
TEST HOLE LOGS

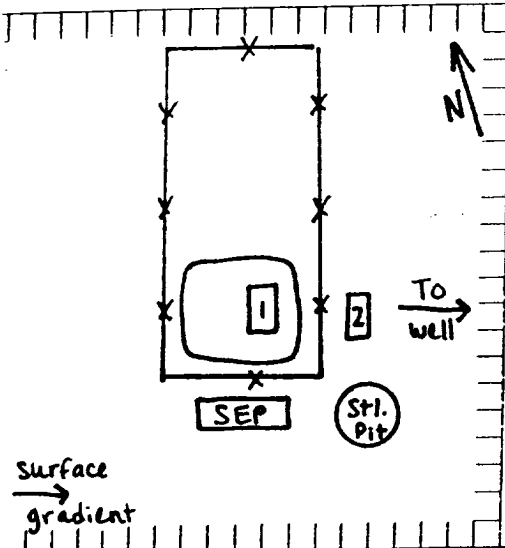
SAMPLE ID	SMPL TYPE	LABORATORY ANALYSIS
T2@16'	Soil	450ppm
T2@16'	Soil	BTEX GAC#0361

TH#	SOIL TYPE	SMPL OVM/TYPE	TPH
1	CL	GRB	12
2	CL	GRB	1649
3	CL	GRB	324
4	CL	GRB	>2131
5	CL	GRB	>2077
6	CL	GRB	1752
7	CL	GRB	>2077
8	CL	GRB	1752
9	CL	GRB	>2077
10	CL	GRB	1752
11	CL	GRB	>2077
12	CL	GRB	1752
13	CL	GRB	>2077
14	CL	GRB	1752
15	CL	GRB	>2077
16	CL	GRB	1752
17	CL	GRB	>2077
18	CL	GRB	1752

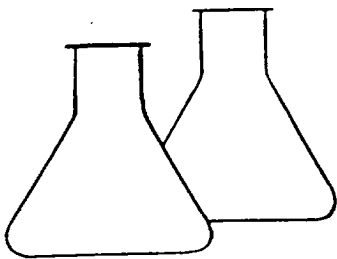
SCALE



SITE DIAGRAM



SOIL TYPE: C - Clay, M - Silt, S - Sand, G - Gravel Plasticity: L - None, H - Plastic Grading: P - Peaty, W - Wet



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T1 @ 6'	Date Analyzed:	1-4-94
Project Location:	San Juan 29-6, #14A	Date Reported:	1-6-94
Laboratory Number:	GAC0359	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	10900	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	76	110	37

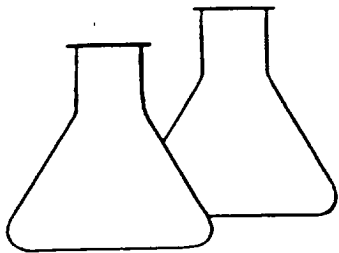
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA119

R. E. O'Neil
Analyst

Morris D. Young
Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T1 @ 11'	Date Analyzed:	1-4-94
Project Location:	San Juan 29-6, #14A	Date Reported:	1-6-94
Laboratory Number:	GAC0360	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	350	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	76	110	37

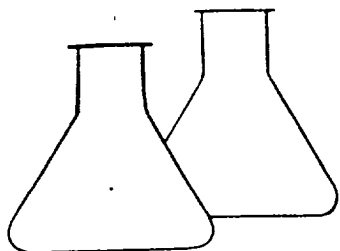
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA119

R. E. O'Neil
Analyst

Morris D. Young
Review



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

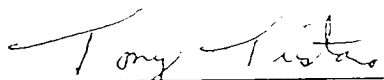
Client:	Phillips	Project #:	93163
Sample ID:	T1 @ 11'	Date Sampled:	01-04-94
Laboratory Number:	6701	Date Received:	01-05-94
Sample Matrix:	Soil	Date Analyzed:	01-06-94
Preservative:	Cool	Date Reported:	01-06-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	238	10

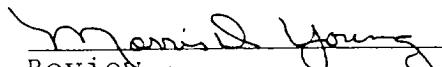
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

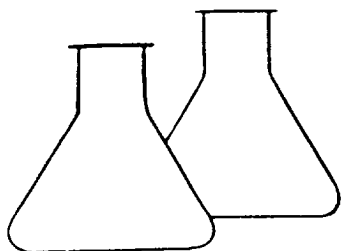
Comments: San Juan 29-6 #14A PA119



Analyst



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	T 1 @ 11'	Date Reported:	01-05-94
Laboratory Number:	6701	Date Sampled:	01-04-94
Sample Matrix:	Soil	Date Received:	01-05-94
Preservative:	Cool	Date Extracted:	01-05-94
Condition:	Cool & Intact	Date Analyzed:	01-05-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	1,260	13.0
Toluene	31,500	32.5
Ethylbenzene	3,550	13.0
p,m-Xylene	36,200	32.5
o-Xylene	12,900	32.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	103 %
	Bromofluorobenzene	103 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

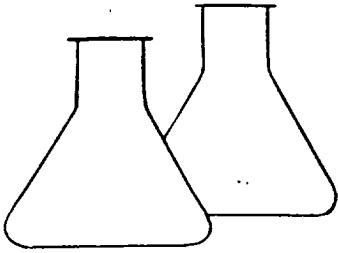
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: San Juan 29-6 #14 A PA119

Analyst

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	T 1 @ 17'	Date Reported:	01-05-94
Laboratory Number:	6702	Date Sampled:	01-04-94
Sample Matrix:	Soil	Date Received:	01-05-94
Preservative:	Cool	Date Extracted:	01-05-94
Condition:	Cool & Intact	Date Analyzed:	01-05-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	4,920	13.0
Toluene	63,100	32.4
Ethylbenzene	8,200	13.0
p,m-Xylene	46,900	32.4
o-Xylene	27,900	32.4

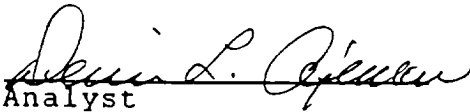
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	100 %
	Bromofluorobenzene	99 %

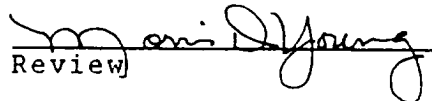
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

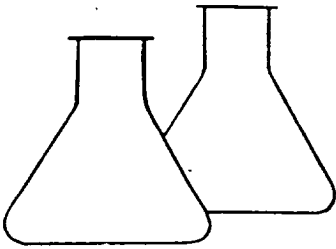
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: San Juan 29-6 #14 A PA119


Analyst


Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T2 @ 16'	Date Analyzed:	1-4-94
Project Location:	San Juan 29-6, #14A	Date Reported:	1-6-94
Laboratory Number:	GAC0361	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	450	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	350	260	30

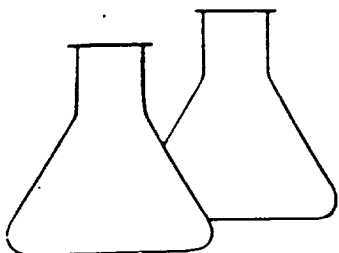
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA119

R. E. O'Neil
Analyst

Mavis D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	T 2 @ 16'	Date Reported:	01-05-94
Laboratory Number:	6703	Date Sampled:	01-04-94
Sample Matrix:	Soil	Date Received:	01-05-94
Preservative:	Cool	Date Extracted:	01-05-94
Condition:	Cool & Intact	Date Analyzed:	01-05-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	338	13.1
Toluene	12,900	32.9
Ethylbenzene	1,890	13.1
p,m-Xylene	28,600	32.9
o-Xylene	8,800	32.9

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	96 %
	Bromofluorobenzene	99 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: San Juan 29-6 #14 A PA119

Kevin L. Ciemiec
Analyst

Maris D. Young
Review

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

PIT NO: PA119

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

C.D.C. NO: 3877

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: San Juan 29-6 WELL #: 14A PIT: Sep.

DATE STARTED: 16 Aug. 94
DATE FINISHED: 16 Aug. 94

QUAD/UNIT: I SEC: 7 TWP: 29N RNG: 6W BM: NM CNTY: R.ASTNM

ENVIRONMENTAL SPECIALIST: FM

QTR/FOOTAGE: 1830' FSL & 1150' FEL CONTRACTOR: Cimarron

SOIL REMEDIATION: EXCAVATION APPROX. 18 FT. x 18 FT. x 14 FT. DEEP.

DISPOSAL FACILITY: Land Farm - On Site CUBIC YARDAGE:

LAND USE: Range LEASE: SF-080379

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 50 FEET N60°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 160' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: Soil is yellow-brown, slightly moist, silty sand to silty clay. Gray clay occurs @ 13' in south wall and total depth @ 14'. Odor in bottom and S. & E. Walls

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
3 @ 13'	GAC662	10	20	1	132	264

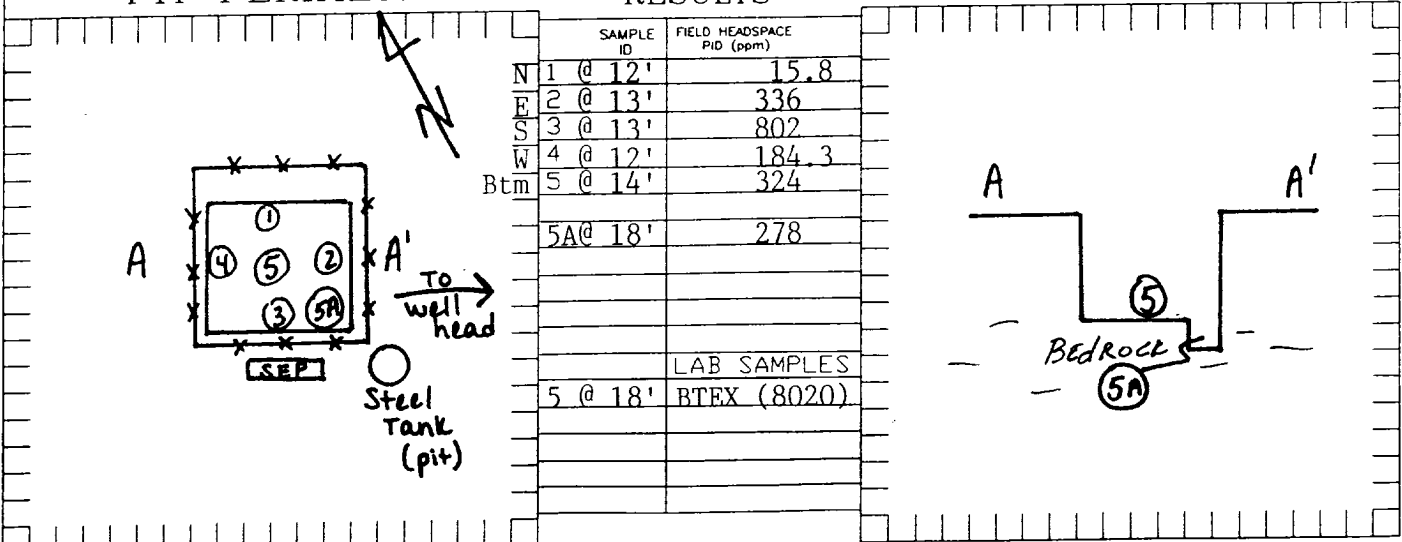
1 cm = 10'
SCALE



FEET
PIT PERIMETER

OVM
RESULTS

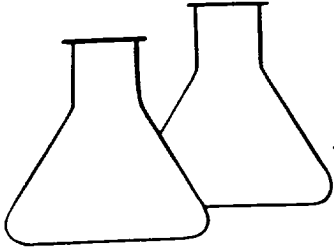
PIT PROFILE



TRAVEL NOTES:

CALLOUT:

ONSITE:



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	3 @ 13'	Date Analyzed:	8-16-94
Project Location:	San Juan 29-6 #14A	Date Reported:	8-16-94
Laboratory Number:	GAC0662	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	264	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	7,420	6,960	6

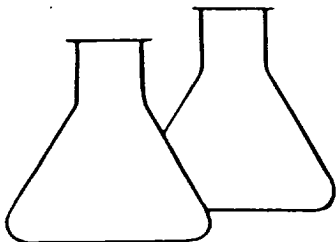
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA119

Analyst

Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	PHILLIPS	Project #:	93163
Sample ID:	5@18'	Date Reported:	08-19-94
Laboratory Number:	7825	Date Sampled:	08-16-94
Sample Matrix:	Soil	Date Received:	08-16-94
Preservative:	Cool	Date Extracted:	08-18-94
Condition:	Cool & Intact	Date Analyzed:	08-18-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	39300	19.0
Toluene	12600	19.0
Ethylbenzene	33500	12.7
p,m-Xylene	11100	19.0
o-Xylene	57400	19.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	130 %
	Bromofluorobenzene	175 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: San Juan 29-6 # 14A Sep Pit PA119
Excessive surrogate recovery due to coelution

Royd Griffin
Analyst

Morris D Young
Review

ENVIROTECH Inc.

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(505) 632-0615

PIT No: PA119
C.O.C #: 4151

**FIELD REPORT: REMEDIATION FACILITY
CLOSURE VERIFICATION**

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-6 # 14A

DATE STARTED: 4-11-95
DATE FINISHED: 4-11-95

SOURCE LOCATION:

SOURCE LOCATION:

SOURCE LOCATION:

ENVIRONMENTAL
SPECIALIST: CJC

FACILITY CLASSIFICATION: Landfarm PIT TYPE: Sep.

SOIL REMEDIATION: QUANTITY: 82 cy # OF COMP. SAMPLES: 1

DIMENSIONS: 78' x 38' x .75'

VISIBLE OBSERVATIONS:

SAMPLING PLAN: 1 5-point composite

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 21 YARDS S FROM WELLHEAD.

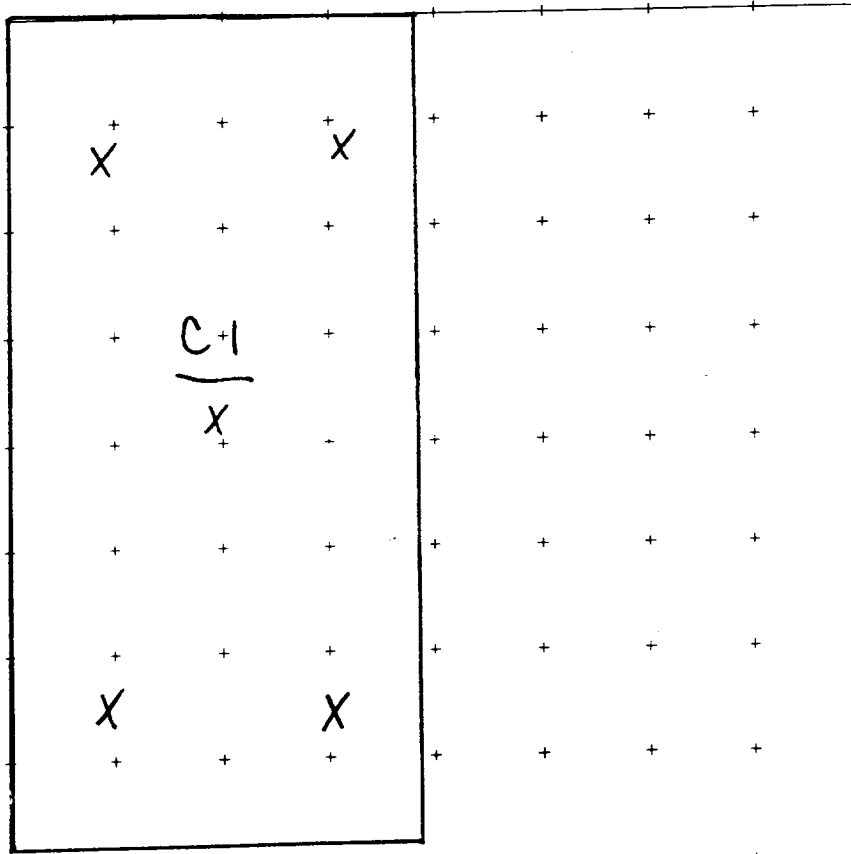
DEPTH TO GROUNDWATER:
NEAREST WATER SOURCE/TYPE:
NEAREST SURFACE WATER:
MAX TPH PER NMOC:

CLOSE

No. OF 5-POINT COMPOSITE SAMPLES: YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

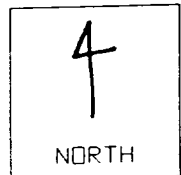
FACILITY DIAGRAM

GRID SCALE: 10'



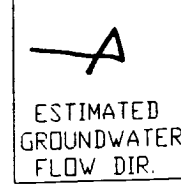
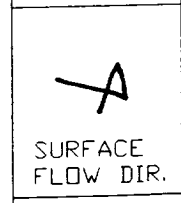
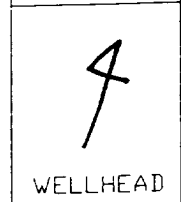
**OVM
RESULTS**

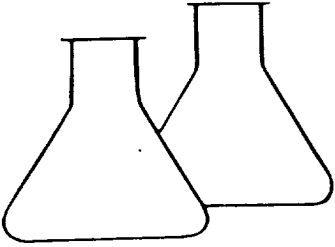
SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	0.0



**LAB
RESULTS**

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
C1	TPH	81.3





ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS


Client:	Phillips	Project #:	93163
Sample ID:	S.J.29-6 #14A C1	Date Reported:	04-13-95
Laboratory Number:	8342	Date Sampled:	04-11-95
Chain of Custody No:	4151	Date Received:	04-12-95
Sample Matrix:	Soil	Date Extracted:	04-12-95
Preservative:	Cool	Date Analyzed:	04-12-95
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	81.3	10.0

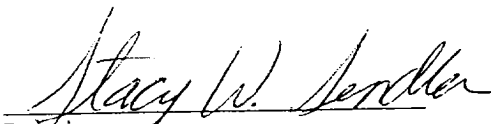
ND = Parameter not detected at the stated detection limit.

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

Comments:



Analyst



Review

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS												
Phillips/93136		Chain of Custody Tape No.		No. of Containers		TPH		BTEX		Remarks		Date		Time		
Sampler (Signature)	Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	Received by: (Signature)		Received by: (Signature)		Received by: (Signature)		Date		Time		
<i>C. Jack Collins</i>	SJ.29-b #103 C1	4/1/95	901	8341	Soil	<i>Nettle Spence</i>		<i>Nettle Spence</i>		<i>Nettle Spence</i>		4-12-95		0713		
	SJ.29-b #14 A C1		1001	8342	Soil											
	SJ.29-b #89 C1		1108	8343												
	SJ.29-b #106 C1		1626	8344												
	SJ.30-b #47 C1		1357	8345												
	SJ.31-b #50 DK C1		1258	8346												
	SJ.30-b #73 DK C1		1444	8347												
	SJ.29-b #94 C1		1584	8348												
	SJ.29-b #87 C1		1707	8349												
	SJ.29-b #87 C1	4-11-95	1707	8350												
	<i>C. Jack Collins</i>															
	Relinquished by: (Signature)															
	Relinquished by: (Signature)															

ENVIROTECH INC.

5796 U.S. Highway 64-3014
 Farmington, New Mexico 87401
 (505) 632-0615

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

PIT NO: PA119

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

C.O.C. NO: 4301

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: San Juan 29-6 WELL #: 14A PIT: Sep.

DATE STARTED: 7-20-95

DATE FINISHED: 7-20-95

QUAD/UNIT: I SEC: 7 TWP: 29N RNG: 6W BM: NM CNTYR.A.ST: NM

ENVIRONMENTAL SPECIALIST: CJC

QTR/FOOTAGE: 1830' FSL & 1150' FWL CONTRACTOR: Rosebaum Trackhoe

SOIL REMEDIATION: EXCAVATION APPROX. 20 FT. x 20 FT. x 14 FT. DEEP.

DISPOSAL FACILITY: On-Site Landfarm CUBIC YARDAGE: _____

LAND USE: Range LEASE: SF-080379

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 50 FEET N60°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 160' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: 0'-12' Tan shale, weathered, soft
12'-18' Shale blue-grey - green-grey, strong odor, becoming hard at 18'

T3 @ 16' Shale grey-green, hard, strong odor

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
5 Btm @ 18'	1118	10.56	20	10	103	1,951
T4 @ 15.5'	1119	10.42	20	1	29	56
T5 @ 16'	1120	10.93	20	1	32	58.5
T6 @ 17'	1121	11.05	20	1	23	41.6
T7 @ 18'	1122	9.99	20	1	20	40.0

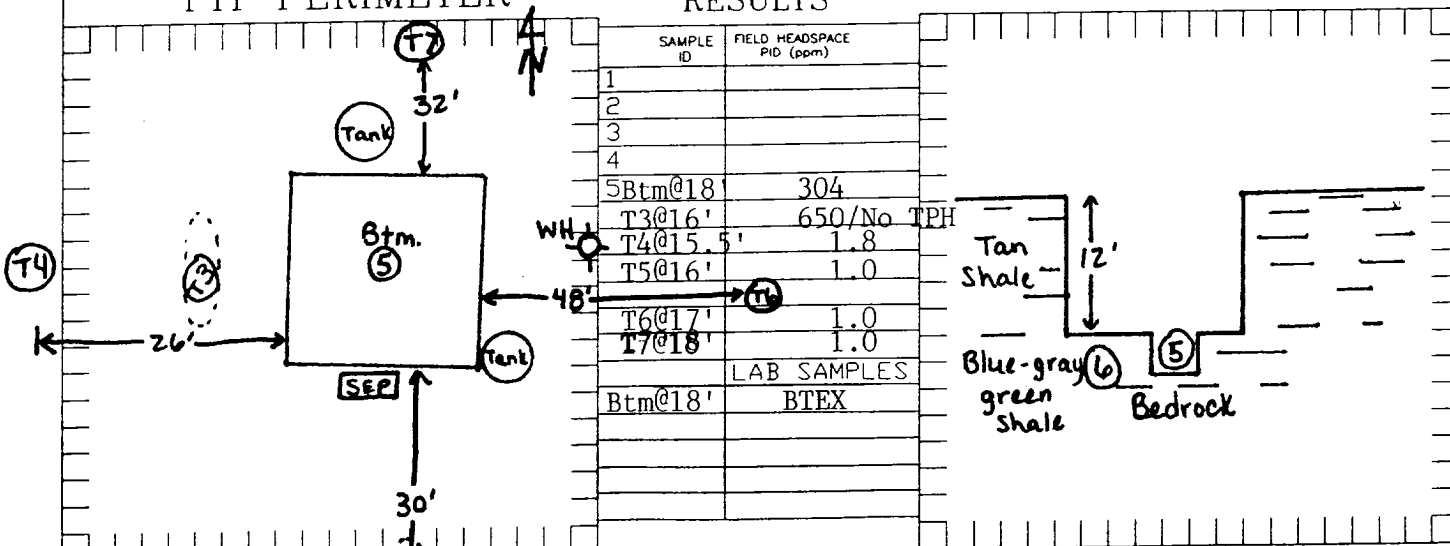
1"=20'
SCALE



PIT PERIMETER

OVN RESULTS

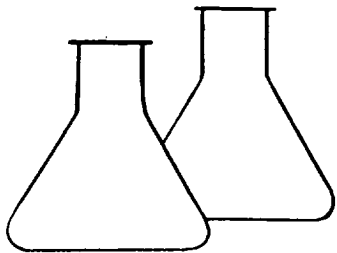
PIT PROFILE



TRAVEL NOTES:

CALLOUT: _____

ONSITE: _____



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	BTM @ 18.0'	Date Analyzed:	07-20-95
Project Location:	San Juan 29-6, #14A	Date Reported:	07-27-95
Laboratory Number:	GAC1118	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,951	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	46 *	50	8

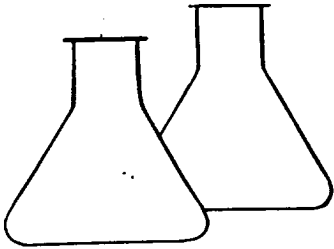
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA119

C. Jack Collins
Analyst

Stacy W. Jorden
Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T4 @ 15.5'	Date Analyzed:	07-20-95
Project Location:	San Juan 29-6, #14A	Date Reported:	07-27-95
Laboratory Number:	GAC1119	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	56	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	46 *	50	8

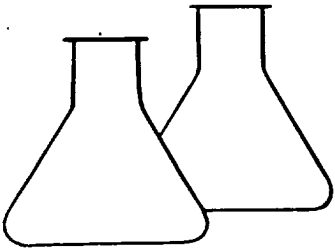
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA119

C. Jack Collins
Analyst

Tracy W. Janda
Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T5 @ 16.0'	Date Analyzed:	07-20-95
Project Location:	San Juan 29-6, #14A	Date Reported:	07-27-95
Laboratory Number:	GAC1120	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	59	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	50 *	59	17

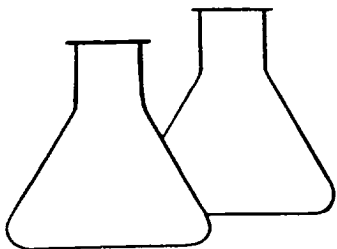
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA119

Chuck Collins
Analyst

Greg W. Jender
Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T6 @ 17.0'	Date Analyzed:	07-20-95
Project Location:	San Juan 29-6, #14A	Date Reported:	07-27-95
Laboratory Number:	GAC1121	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	42	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	50 *	59	17

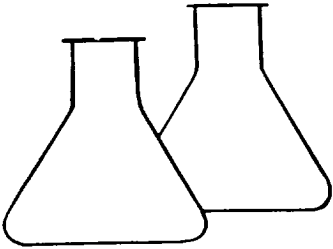
*Administrative Acceptance limits set at 30%.

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

Comments: Separater Pit PA119

C. Jack Collins
Analyst

Stacy W. Sander
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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T7 @ 18.0'	Date Analyzed:	07-20-95
Project Location:	San Juan 29-6, #14A	Date Reported:	07-27-95
Laboratory Number:	GAC1122	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	40	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	50 *	59	17

*Administrative Acceptance limits set at 30%.

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

Comments: Separater Pit PA119

C. Jack Collins
Analyst

Henry W. Andler
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	BTM @ 18'	Date Reported:	07-21-95
Laboratory Number:	8733	Date Sampled:	07-20-95
Chain of Custody:	4301	Date Received:	07-20-95
Sample Matrix:	Soil	Date Analyzed:	07-21-95
Preservative:	Cool	Date Extracted:	07-21-95
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,260	29.0
Toluene	32,600	33.1
Ethylbenzene	4,800	31.0
p,m-Xylene	38,900	26.4
o-Xylene	11,500	28.7

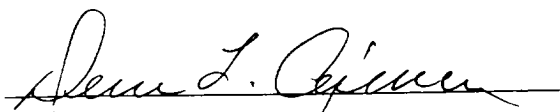
ND - Parameter not detected at the stated detection limit.

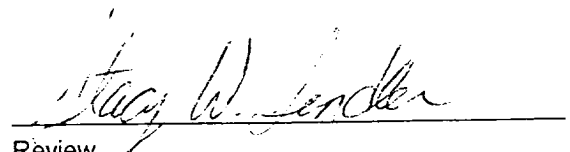
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	100 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: San Juan 29-6 #14A, Pit # PA119.


Analyst


Review

