

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

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

Denny E. Faust

DEPUTY OIL & GAS INSPECTOR OIL CONSERVATION DIVISION

P.O. Box 2088

APR 08 1997

Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Phillips Petroleum Company Telephone: (505) 599-3454

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

Facility Or: San Juan 29-5 Unit #75

Well Name _____

Location: Unit or Qtr/Qtr Sec SWSW Sec 22 T 29N R 5W County Rio Arriba

Pit Type: Separator ☒ Dehydrator _____ Other _____

Land Type: BLM _____, State _____, Fee ☒ Other _____

Pit Location: Attach diagram) Pit dimensions: Length 30', width 30', depth 12'
Reference: wellhead ☒ other _____
Footage from reference: 63'
Direction from reference: 90 Degrees _____ East North _____
_____ ☒ West South X

Depth to Ground Water: 55'
Vertical distance from _____
contaminants to seasonal _____
highwater elevation of _____
ground water) _____
Less than 50 feet (20 points)
50 ft to 99 feet (10 points)
Greater than 100 feet (0 points) 10

Wellhead Protection Area: _____
Less than 200 feet from a private _____
domestic water source, or: less than _____
100 feet from all other water sources) _____
Yes (20 points)
☒ No (0 points) 0

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

P:\pits\PITCFRM.WK3

RANKING SCORE (TOTAL POINTS): 10

OIL CON. DIV.
DIST. 3

Date Remediation Started: 8/30/94 Dated Completed: 8/15/95

Excavation x Approx. cubic yards _____

Landfarmed x Insitu Bioremediation _____

Other _____

Remediation Method: Onsite x Offsite _____
(Check all appropriate sections)

General Description of Remedial Action: Based on the intial assessment, soils were excavated to a depth of 8 feet below the original pit bottom. The soils were landfarmed on location. The excavation tested clean on 5/9/95. The landfarm tested clean on 8/15/95. The landfarmed soils were then used to fill the excavation.

Ground Water Encountered: No x Yes _____ Depth _____

Final Pit: Sample location Individual samples were collected from each wall and the bottom of the excavation.

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

Sample depth 11 ft from surface

Sample date 5/9/95 Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) ND

TPH 29

Ground Water Sample: Yes _____ No x (If yes, attach sample results)

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

DATE 2-14-97

PRINTED NAME Bob Wirtanen

SIGNATURE



and TITLE

Sr. Safety & Environmental Specialist

COPY

*Revised by MDR 3-13-97

ENVIROTECH Inc.

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

PIT NO: PA237

C.O.C. NO: 3898

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: 8/30/94

DATE FINISHED: 8/30/94

ENVIRO. SPCLT: REO/CJC

OPERATOR: CIMARRON

ASSISTANT: K.O.

LOCATION: LEASE: MCKAY FEE

WELL: San Juan 29-50D: Unit No 75

SEC: 22 TWP: 29N RNG: 5W PM: NM CNTY: Rio Ariz ST: NM PIT:

LAND USE: Range

SURFACE CONDITIONS:

PIT CENTER IS LOCATED APPROXIMATELY 63 FEET West OF WELLHEAD.

CLOSURE STD: <1000 TPH 55' to GW

RANKING SCORE: 10 *

0-3' Blk, sandy clay, wet, strong odor, soft
3-10' Blk, sandy clay, wet, odor, soft
10-11' Clay, tan, brown, dry, slight odor, firm

145x2=290
978x2=1956
168x20=3360

SAMPLE INVENTORY

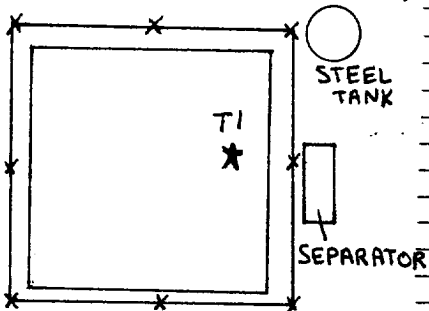
SMPL ID	SMPL TYPE	LABORATORY ANALYSIS
687 T1@6'	Soil	3360ppm TPH
688 T1@11'	Soil	290ppm TPH
T1@11'	Soil	BTEX

SCALE



20 FEET

SITE DIAGRAM

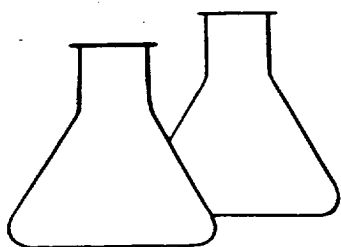


TEST HOLE LOGS

TH#: 1			TH#:			TH#:			TH#:			
GD	SOIL TYPE:	SMPL TYPE: OVM/TPH	SOIL TYPE:	SMPL TYPE: OVM/TPH	SOIL TYPE:	SMPL TYPE: OVM/TPH	SOIL TYPE:	SMPL TYPE: OVM/TPH	SOIL TYPE:	SMPL TYPE: OVM/TPH	SOIL TYPE:	SMPL TYPE: OVM/TPH
1												
2												
3	Pit bottom											
4	sandy											
5	sandy											
6	clay GRB	398/3360										
7												
8												
9												
10												
11	Clay GRB	425/290										
12												
13												
14												

SOIL TYPE: C - Clay, M - Sil, S - Sand, G - Gravel Plasticity: L - None, H - Plastic Grading: P - Poorly, W - Well

Y903



ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T-1 @ 6.0'	Date Analyzed:	8-30-94
Project Location:	San Juan 29-5 #75	Date Reported:	9-23-94
Laboratory Number:	GAC0687	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	3,360	100

ND = Not Detectable at stated detection limits.

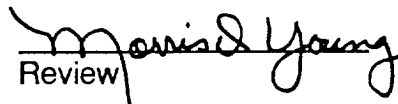
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2	2	0

*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 PA237


Analyst


Review

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Phillips Petroleum
Sample ID: T-1 @ 11.0'
Project Location: San Juan 29-5 #75
Laboratory Number: GAC0688

Project #: 93163
Date Analyzed: 8-30-94
Date Reported: 9-23-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	290	10

ND = Not Detectable at stated detection limits.

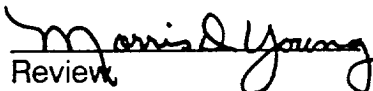
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2	2	0

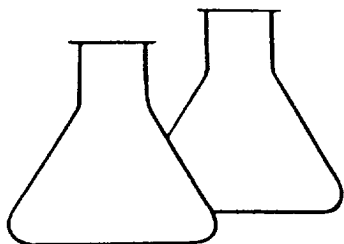
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA237


Analyst


Reviewer



ENVIROTECH LABS

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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	TI@11'	Date Reported:	09-06-94
Laboratory Number:	7860	Date Sampled:	08-30-94
Sample Matrix:	Soil	Date Received:	08-30-94
Preservative:	Cool	Date Extracted:	09-01-94
Condition:	Cool & Intact	Date Analyzed:	09-02-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	54	19.5
Toluene	36	19.5
Ethylbenzene	ND	13.0
p,m-Xylene	ND	19.5
o-Xylene	ND	19.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	108 %

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 29-5 #75

Rex A. Hupp
Analyst

Morris D. Young
Review

SAR 10000 Form 578-61

CLIENT: Phillips

ENVIROTECH Inc.

PIT NO: PA2375796 US HWY 64, FARMINGTON, NM 87401
(505) 632-0615

C.B.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163PAGE No: 1 of 1LOCATION: NAME San Juan 29-5 WELL # 75 PIT: Sep-QUAD UNIT SEC 22 TWP 29N RNG 5W BM CNT: ElectricDATE STARTED: 5-9-95

DATE FINISHED: _____

GTRFEEDAGE CONTRACTOR: EnviroTechENVIRONMENTAL SPECIALIST: CSCSOIL REMEDIATION: EXCAVATION APPROX. 30 FT. x 30 FT. x 12 FT. DEEP.

DISPOSAL FACILITY: _____ CUBIC YARDAGE: _____

LAND USE: Pavement LEASE: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY _____ FEET _____ FROM WELLHEAD

DEPTH TO GROUNDWATER: 55 NEAREST WATER SOURCE _____ NEAREST SURFACE WATER: _____NMEED RANKING SCORE _____ NMEED TPH CLOSURE STD 1000 ppm

SOIL AND EXCAVATION DESCRIPTION:

FIELD 4181 CALCULATIONS

SAMPLE ID	LAB No.	WEIGHT (g)	ML. FREQN DILUTION	READING	CALC. ppm
NWQ10'	1020	10.57	20.0	1	10
WNE10'	1021	10.49	20.0	1	14
BTMC11'	1022	10.45	20.0	1	15
SWQ10'	1023	10.49	20.0	1	15
EWQ10'	1024	10.51	20.0	1	18
					34

SCALE

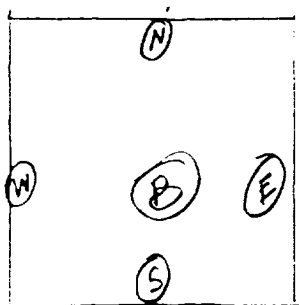


0 20 FEET

PIT PERIMETER

RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PD (ppm)
1NWQ10	0.0
2WNE10	0.0
3BTMC11	0.0
4SWQ10	0.0
5EWQ10	0.0

LAB SAMPLES

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETROLEUM	Project #:	93163
Sample ID:	N. Wall @ 10'	Date Analyzed:	05/09/95
Project Location:	San Juan 29-5, #75	Date Reported:	05/17/95
Laboratory Number:	GAC1020	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	19	10

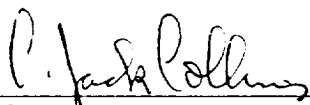
ND = Not Detectable at stated detection limits.

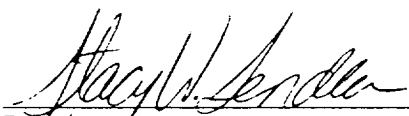
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA237


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETROLEUM	Project #:	93163
Sample ID:	W. Wall @ 10'	Date Analyzed:	05/09/95
Project Location:	San Juan 29-5, #75	Date Reported:	05/17/95
Laboratory Number:	GAC1021	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	27	10

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

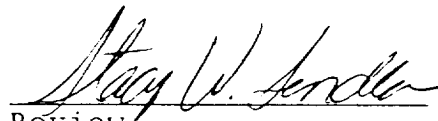
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA237



Analyst



Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: PHILLIPS PETROLEUM
Sample ID: Bottom @ 11'
Project Location: San Juan 29-5, #75
Laboratory Number: GAC1022

Project #: 93163
Date Analyzed: 05/09/95
Date Reported: 05/17/95
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	29	10

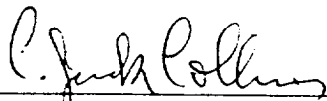
ND = Not Detectable at stated detection limits.

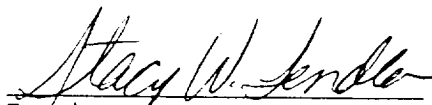
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA237


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client: PHILLIPS PETROLEUM
Sample ID: S. Wall @ 10'
Project Location: San Juan 29-5, #75
Laboratory Number: GAC1023

Project #: 93163
Date Analyzed: 05/09/95
Date Reported: 05/17/95
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	29	10

ND = Not Detectable at stated detection limits.

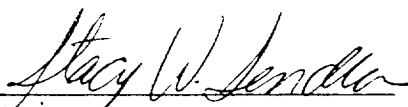
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA237


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETROLEUM	Project #:	93163
Sample ID:	E. Wall @ 10'	Date Analyzed:	05/09/95
Project Location:	San Juan 29-5, #75	Date Reported:	05/17/95
Laboratory Number:	GAC1024	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	34	10

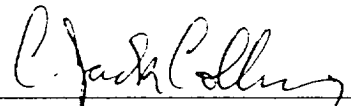
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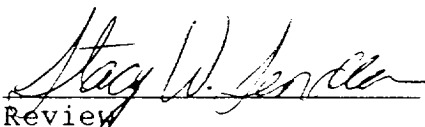
QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA237


Analyst


Review

ENVIROTECH Inc.

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

PIT No: PA237
C.O.C #:

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-5 #75 Sepo
SOURCE LOCATION:
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: Land Farm PT TYPE:

DATE STARTED: 5-9-95
DATE FINISHED:
ENVIRONMENTAL
SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: 30 X 80 X 15' # OF COMP. SAMPLES: 1
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 41 YARDS NW FROM WELLHEAD

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

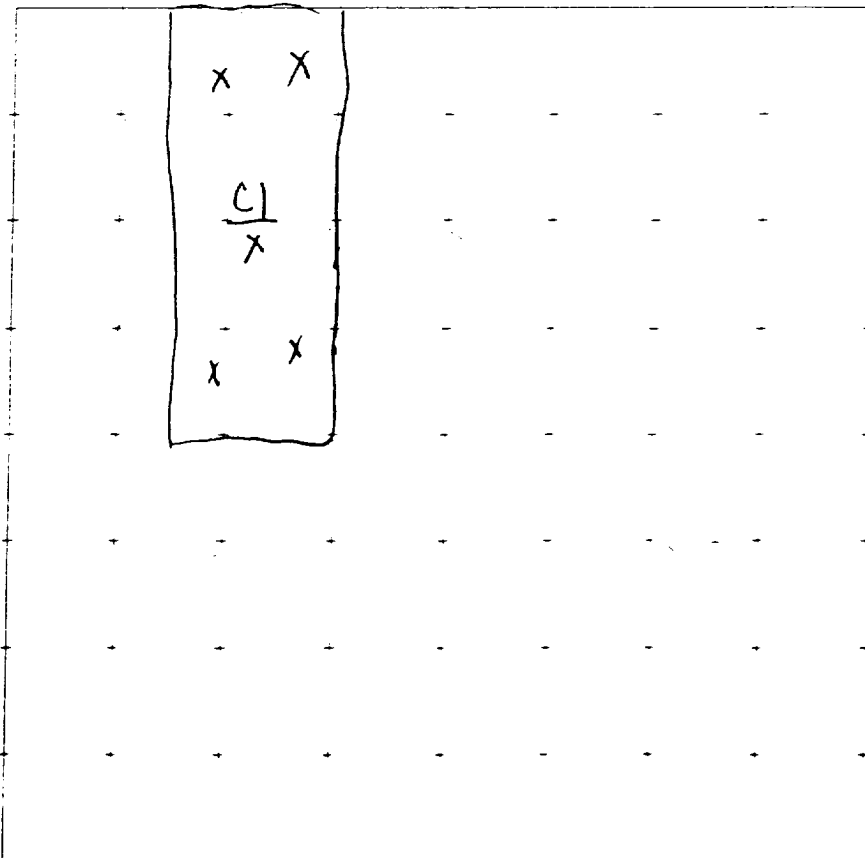
GAC # 1036

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

TPH ~~1153~~ 20ml X 10 X 1/4 = 2153 ppm
10.59

FACILITY DIAGRAM

GRID SCALE 20'



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE FC (ccm)
<u>C1</u>	<u>115.3</u>

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
<u>C1</u>	<u>TPH</u>	<u>2153</u>

4
NORTH

4
WELL-HEAD

4
SURFACE
FLOW DIR

4
ESTIMATED
GROUNDWATER
FLOW DIR

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: PHILLIPS PETROLEUM
Sample ID: C1
Project Location: San Juan 29-5, #75
Laboratory Number: GAC1036

Project #: 93163
Date Analyzed: 05/09/95
Date Reported: 05/18/95
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	2,200	100

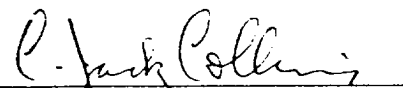
ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # PA237


Analyst


Review

COPY

ENVIROTECH Inc.

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

PIT No: PA237
C.O.C # 4340

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-5 #75 DK Sec.22 T29N R5W R.A.
SOURCE LOCATION: Separator Pit
SOURCE LOCATION: _____
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: On-site Landfarm PIT TYPE: Separator

DATE STARTED: 8-15-95
DATE FINISHED: 8-15-95

ENVIRONMENTAL HMB
SPECIALIST: _____

SOIL REMEDIATION: QUANTITY: 293 cy(+/-) # OF COMP. SAMPLES: 2
DIMENSIONS: 48 x 105 x 1.55

VISIBLE OBSERVATIONS: Surface to 3" Dry crumbly; >3" below surface Hard
SAMPLING PLAN: Collect 10 5pt composite samples @6-9" below surface

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 49 YARDS NW FROM WELLHEAD.

DEPTH TO GROUNDWATER: 55
NEAREST WATER SOURCE/TYPE: >1000
NEAREST SURFACE WATER: >1000
MAX TPH PER NMOC: 1000 TPH

Hand augered all but 2 locations
due to hard soil conditions

Soil moist, slight petroleum odor

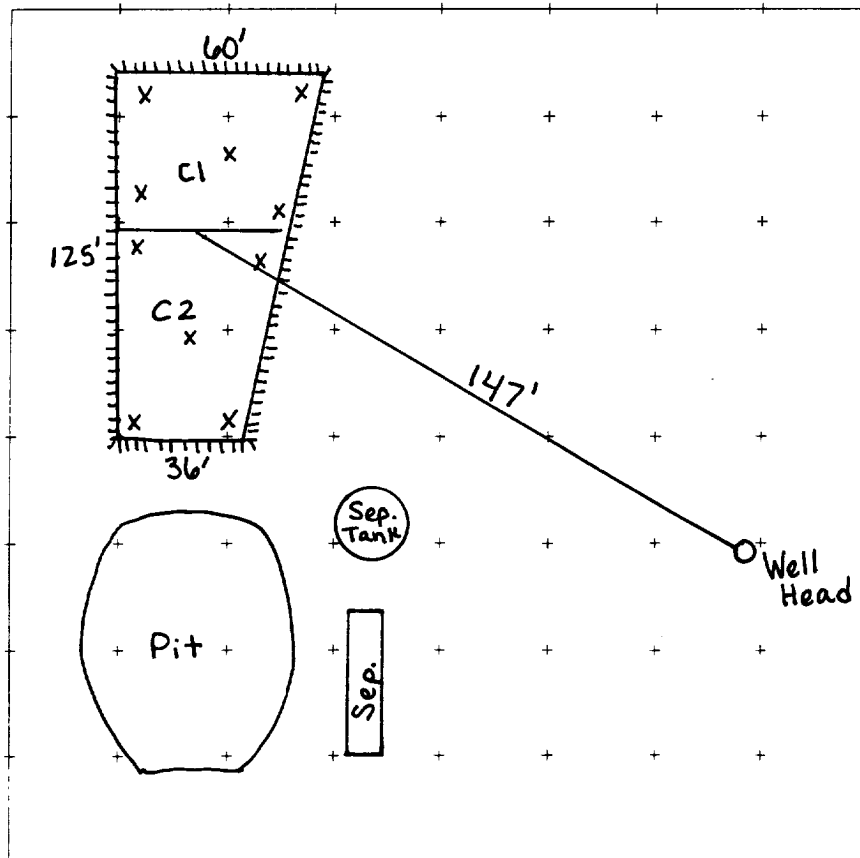
No. OF 5-POINT
COMPOSITE SAMPLES:
YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

C1
&
C2 #75

Remediate
OVM

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	181.3ppm
C2	175.9ppm

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
C1	TPH	946
C2	TPH	321

↑
NORTH

↘
WELLHEAD

↙
SURFACE
FLOW DIR.

↘
ESTIMATED
GROUNDWATER
FLOW DIR.

7903

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

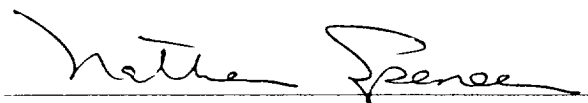
Client:	Phillips Petroleum	Project #:	93163
Sample ID:	San Juan 29-5 #75 DK C1	Date Reported:	08-16-95
Laboratory Number:	8796	Date Sampled:	08-15-95
Chain of Custody No:	4340	Date Received:	08-15-95
Sample Matrix:	Soil	Date Extracted:	08-16-95
Preservative:	Cool	Date Analyzed:	08-16-95
Condition:	Cool and Intact	Analysis Needed:	TPH

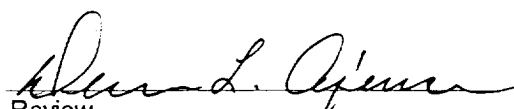
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	946	10

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: **PA237. Various Landfarms.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

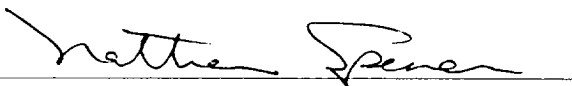
Client:	Phillips Petroleum	Project #:	93163
Sample ID:	San Juan 29-5 #75 DK C2	Date Reported:	08-16-95
Laboratory Number:	8797	Date Sampled:	08-15-95
Chain of Custody No:	4340	Date Received:	08-15-95
Sample Matrix:	Soil	Date Extracted:	08-16-95
Preservative:	Cool	Date Analyzed:	08-16-95
Condition:	Cool and Intact	Analysis Needed:	TPH

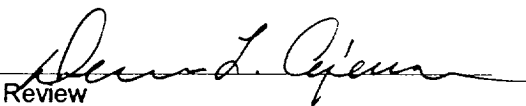
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	321	10

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: **PA237. Various Landfarms.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	San Juan 29-5 #75 DK C1	Date Reported:	08-22-95
Laboratory Number:	8796	Date Sampled:	08-15-95
Chain of Custody:	4361	Date Received:	08-15-95
Sample Matrix:	Soil	Date Analyzed:	08-22-95
Preservative:	Cool	Date Extracted:	08-21-95
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	66.9	29.7
Toluene	105	34.0
Ethylbenzene	ND	31.8
p,m-Xylene	237	27.1
o-Xylene	206	29.5

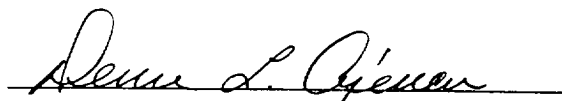
ND - Parameter not detected at the stated detection limit.

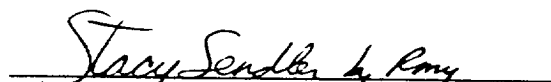
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	101 %

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: Various Landfarms. PA237.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	San Juan 29-5 #75 DK C2	Date Reported:	08-22-95
Laboratory Number:	8797	Date Sampled:	08-15-95
Chain of Custody:	4361	Date Received:	08-15-95
Sample Matrix:	Soil	Date Analyzed:	08-22-95
Preservative:	Cool	Date Extracted:	08-21-95
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	29.4
Toluene	ND	33.6
Ethylbenzene	ND	31.4
p,m-Xylene	73.6	26.8
o-Xylene	ND	29.1

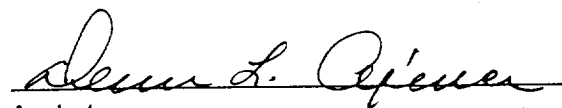
ND - Parameter not detected at the stated detection limit.

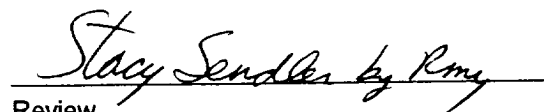
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	102 %
	Bromofluorobenzene	101 %

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: Various Landfarms. PA237.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name Phillips Petroleum			Project Location Various Land Farms			ANALYSIS/PARAMETERS					
Sampler: (Signature) <i>Heather M. Brown</i>			Chain of Custody Tape No.								
Sample No. / Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers					Remarks	
San Juan 30-5 #470K	8-15-95	11:48	8791	Soil	1	TPH 418.1	BTEX 8020				BTEX if TPH > 100
San Juan 29-6 #87 DK	8-15-95	13:18	8792	Soil	1						BTEX if TPH > 100
San Juan 29-6 #103 DK	8-15-95	14:37	8793	Soil	1						BTEX if TPH > 1000
San Juan 29-5 #104 PC	8-15-95	15:53	8794	Soil	1						BTEX if TPH > 1000
San Juan 29-5 #87 PC	8-15-95	18:57	8795	Soil	1						No BTEX
San Juan 29-5 #75 DK	8-15-95	17:03	8796	Soil	1						BTEX if TPH > 1000
San Juan 29-5 #75 DK	8-15-95	17:15	8797	Soil	1						BTEX if TPH > 1000
San Juan 29-5 #87 PC	8-15-95	19:13	8798	Soil	1						BTEX if TPH > 100
San Juan 29-5 #87 PC	8-15-95	19:26	8799	Soil	1						No BTEX
Relinquished by: (Signature) <i>Heather M. Brown</i>			Date	Time	Received by: (Signature) <i>Natasha Spencer</i>			Date	Time		
Relinquished by: (Signature)			8-15-95	21:20	Received by: (Signature)			8-15-95	21:20		
Relinquished by: (Signature)					Received by: (Signature)						

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