

Denny E. Faust
District I
DEPUTY OIL & GAS INSPECTOR
District II
P.O. Drawer DD, Aztec, NM 87410
District III
1000 Rio Brazos Rd. Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

Approved **PIT REMEDIATION AND CLOSURE REPORT**

Operator: Phillips Petroleum Company Telephone: (505) 599-3462

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

Facility Or: San Juan 32 - 7 Unit # 80
Well Name

Location: Unit or Qtr/Qtr Sec NWSW Sec 3 T 31N R 7W County San Juan

Pit Type: Separator X Dehydrator _____ Other _____

Land Type: BLM X State _____ Fee _____ Other _____

Pit Location: Pit dimensions: Length 21 ft, width 48 ft, depth 5 ft
(Attach diagram)

Reference- wellhead X other _____

Footage from reference: 45 ft

Direction from reference: 0 Degrees _____ East _____ North X
_____ West _____ South _____

Depth to Ground Water: 235 ft _____ Less than 50 feet (20 points)
(vertical distance from _____ 50 ft to 99 feet (10 points)
contaminants to seasonal X Greater than 100 feet (0 points) 0
highwater elevation of
ground water)

Wellhead Protection Area: _____ Yes (20 points)
(less than 200 feet from a private X No (0 points) 0
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, X Greater than 1000 feet (0 points) 0
irrigation canals and ditches.)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 2/13/96

Dated Completed: 2/13/96

Excavation X

Approx. cubic yards 50

Landfarmed X

Insitu Bioremediation _____

Other _____

Remediation Method:

Onsite X

Offsite _____

(Check all appropriate
sections)

General Description of Remedial Action- The pit was excavated in 1995 and sampled on 2/13/96 to bedrock (5 feet below ground level). The pit after excavation was determined to be within NMOCD and BLM Guidelines. The landfarm was sampled on 8/16/95 and was found to be within NMOCD and BLM guidelines. Based on this information and the physical location of the pit, there is no risk to human health or environment.

Ground Water Encountered:

No X

Yes _____

Depth _____

Final Pit:

Closure Sampling
(if multiple samples,
attach sample results

and diagram of sample
locations and depths)

Sample location See field pit closure reports

Sample depth 4' below ground level

Sample date 2/13/96

Sample time 13:37

Sample Results

Benzene(ppm) 0.0365

Total BTEX (PPM) 0.287

Field Headspace (ppm) 162

TPH 760 ppm

Ground Water Sample: Yes

No X (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

10/27/87

PRINTED NAME

Bob Wirtanen

SIGNATURE

RAW

and TITLE Sr. Safety & Environmental Specialist

CLIENT: Phillips Petroleum**ENVIROTECH Inc.**PIT NO: PA 2235796 US HWY 84, FARMINGTON, NM 87401
(505) 632-0815C.D.C. NO: 4701**FIELD REPORT: CLOSURE VERIFICATION**JOB No: 93163PAGE No: 1 of 1LOCATION: NAME: SJ 32-7 WELL #: 80 PIT: SeparatorDATE STARTED: 2/13/96DATE FINISHED: 2/13/96

QUAD/UNIT: SEC: TWP: RNG: BM: CNTY: ST:

ENVIRONMENTAL
SPECIALIST: CJC

QTR/FOOTAGE: CONTRACTOR:

SOIL REMEDIATION: EXCAVATION APPROX. 21 FT. x 48 FT. x 5 FT. DEEP.

DISPOSAL FACILITY: CUBIC YARDAGE:

LAND USE: Forest Service Range LEASE:FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 45 FEET N FROM WELLHEAD.DEPTH TO GROUNDWATER: 235' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: >1,000'NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 5,000 PPM

SOIL AND EXCAVATION DESCRIPTION: Clay stone, sandstone, grey-tan, hard, slight odor; some oil staining on bottom

5. BTM@5' 1071 10.67 20 1 156 290

6. TI@6' 1072 10.27 20 1 28 55

FIELD 4181 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1. NW@4'	1067	10.76	20	1	408	760
2. SW@4'	1068	10.37	20	1	19	37
3. EW@4'	1069	10.67	20	1	79	150
4. WW@4'	1070	10.84	20	1	32	59

SCALE

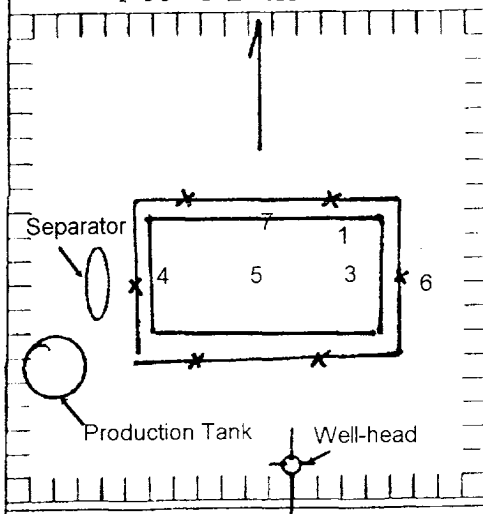
0 1"=40" FEET

PIT PERIMETER

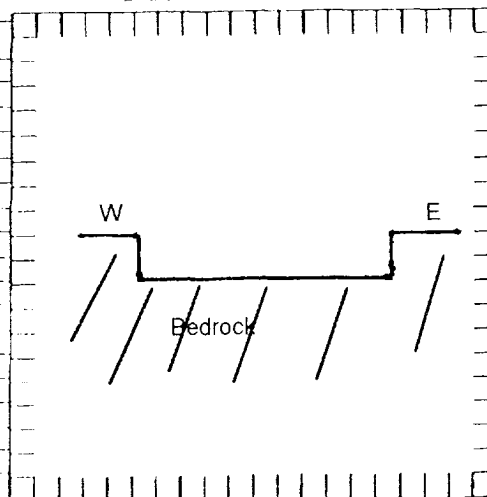
OVM

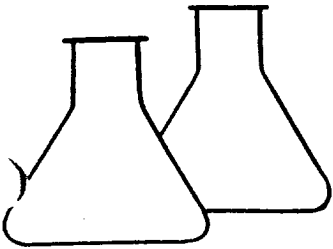
RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 NW@4'	162
2 SW@4'	1.0
3 EW@4'	91.0
4 WW@4'	16.0
5 Btm@5'	14
6 TI@6'	45.0
7 TL@4'	72.0
LAB SAMPLES	
1 NW@4'	BTEX

TRAVEL NOTES: CALLOUT: 07:00ONSITE: 09:00



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:	NW @ 4'	Date Analyzed:	02/13/96
Project Location:	San Juan 32-7, #80	Date Reported:	02/20/96
Laboratory Number:	GAC1167	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	760	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	100	109	9

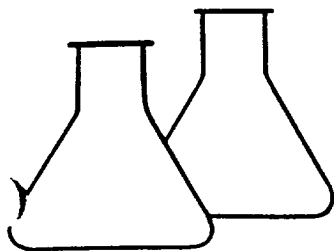
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA223

L. Jack Collins
Analyst

C. Shabach
Review



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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**
Sample ID: **SW @ 4'**
Project Location: **San Juan 32-7, #80**
Laboratory Number: **GAC1168**

Project #: **93163**
Date Analyzed: **02/13/96**
Date Reported: **02/20/96**
Sample Matrix: **Soil**

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	37	10

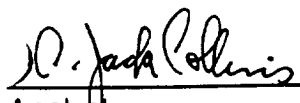
) ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample _____TPH mg/kg	Duplicate _____TPH mg/kg	% *Diff.
	100	109	9

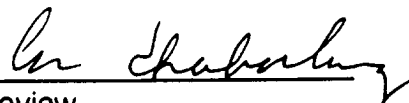
*Administrative Acceptance limits set at 30%.

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

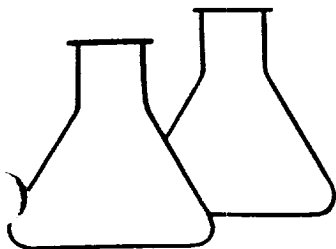
Comments: Separator Pit PA223



Analyst



Review



ENVIROTECH LABS

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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:	EW @ 4'	Date Analyzed:	02/13/96
Project Location:	San Juan 32-7, #80	Date Reported:	02/20/96
Laboratory Number:	GAC1169	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	150	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	100	109	9

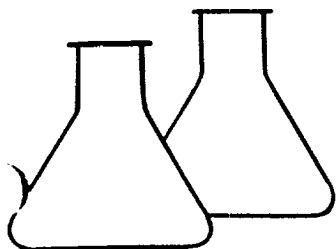
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA223

R. Josh Collins
Analyst

Lee Shalinsky
Review



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:	WW @ 4'	Date Analyzed:	02/13/96
Project Location:	San Juan 32-7, #80	Date Reported:	02/20/96
Laboratory Number:	GAC1170	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
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.
	100	109	9

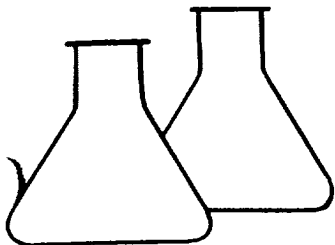
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA223

P. Jack Collins
Analyst

Gr. Shabazz
Review



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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:	BTM @ 5'	Date Analyzed:	02/13/96
Project Location:	San Juan 32-7, #80	Date Reported:	02/20/96
Laboratory Number:	GAC1171	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
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.
	100	109	9

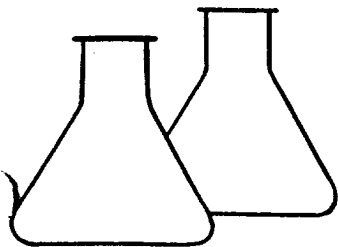
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA223

C. Jack Collins
Analyst

Ken Shaboulay
Review



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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:	T1 @ 6'	Date Analyzed:	02/13/96
Project Location:	San Juan 32-7, #80	Date Reported:	02/20/96
Laboratory Number:	GAC1172	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Total Recoverable Petroleum Hydrocarbons	55	10

) ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample _____TPH mg/kg	Duplicate _____TPH mg/kg	% *Diff.
	100	109	9

*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 PA223

J. Jack Collins
Analyst

Am. Chaharling
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	NW @ 4'	Date Reported:	02-14-96
Laboratory Number:	A007	Date Sampled:	02-13-96
Chain of Custody:	4701	Date Received:	02-13-96
Sample Matrix:	Soil	Date Analyzed:	02-14-96
Preservative:	Cool	Date Extracted:	02-14-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	36.5	22.4
Toluene	91.8	24.1
Ethylbenzene	24.5	19.0
p,m-Xylene	101	35.4
o-Xylene	33.2	23.0
Total BTEX	287	

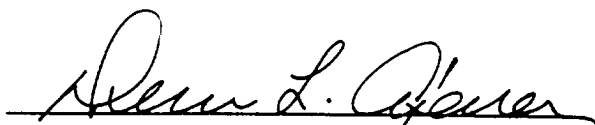
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	98 %

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 32-7 #80 PA223


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS									
Phillips Petroleum		San Juan 32-7											
Sample, (Signature) <i>C. Jack Collins</i>		Chain of Custody Tape No. 93163											
Sample No./Identification S.S. 32-7 #50	Sample Date 2/13/96	Sample Time 948	Lab Number A005	Sample Matrix Soil	No. of Containers 1	✓	PA 213				Remarks		
NW @ 8'	2/13/96	1030	A006	Soil	1	✓	PA 213						
S.S. 32-7 #80													
NW @ 4'	2/13/96	1337	A007	Soil	1	✓	PA 223						
Relinquished by: (Signature) <i>C. Jack Collins</i>	Date 2/13/96	Time 1536	Received by: (Signature) <i>John S. O'Brien</i>	Date 2/13/96	Time 1536								
Relinquished by: (Signature)			Received by: (Signature)										
Relinquished by: (Signature)			Received by: (Signature)										

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

ENVIROTECH Inc

5798 US HWY 64, FARMINGTON, NM 87401
(505) 632-0615

PA223

PIT No: 4198
C.O.C #

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163

PAGE No: of

FACILITY LOCATION: San Juan 32-7 #80 PC

SOURCE LOCATION: Phillips Petroleum

SOURCE LOCATION:

SOURCE LOCATION:

FACILITY CLASSIFICATION: Landfarm PIT TYPE: Sep

DATE STARTED: 5/12/95

DATE FINISHED:

ENVIRONMENTAL
SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: 50 yds # OF COMP. SAMPLES: 1
DIMENSIONS: 30' x 60' x 0.75'

VISIBLE OBSERVATIONS:

SAMPLING PLAN:

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 22 YARDS SE FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100'

NEAREST WATER SOURCE/TYPE:

NEAREST SURFACE WATER:

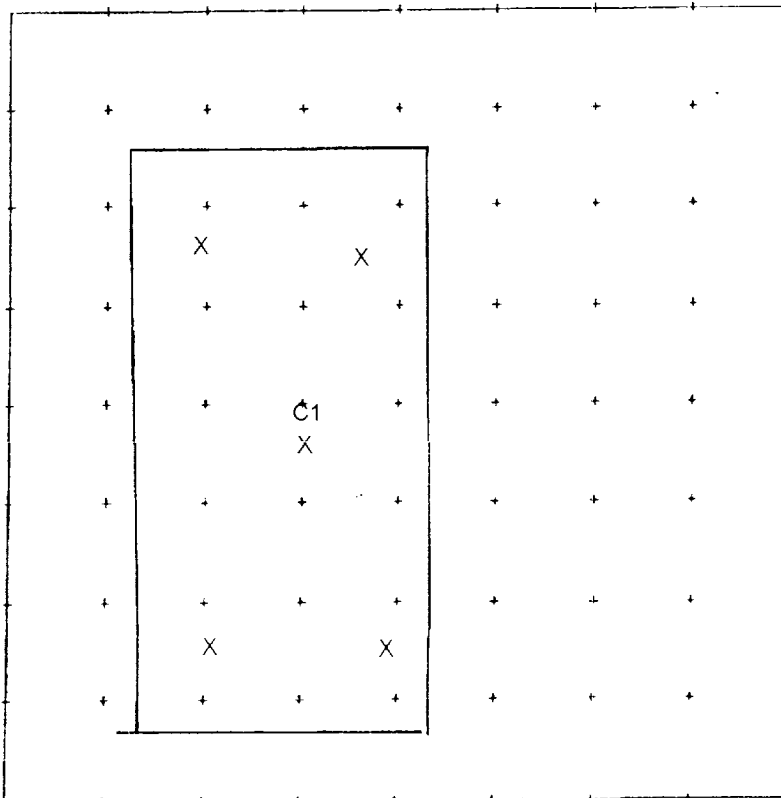
MAX TPH PER NMOC: 5,000

Fail: TPH

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

FACILITY DIAGRAM

GRID SCALE: 10'

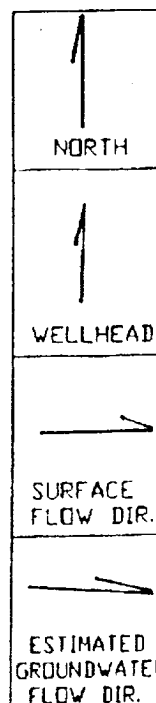


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PPM (nom)
C1	23.4

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
C1	TPH	8,800



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

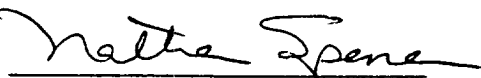
Client:	Phillips	Project #:	93163
Sample ID:	S.J. 32-7 #80 PC	Date Reported:	05-16-95
Laboratory Number:	8498	Date Sampled:	05-12-95
Chain of Custody No:	4198	Date Received:	05-12-95
Sample Matrix:	Soil	Date Extracted:	05-15-95
Preservative:	Cool	Date Analyzed:	05-15-95
Condition:	Cool and Intact	Analysis Needed:	TPH

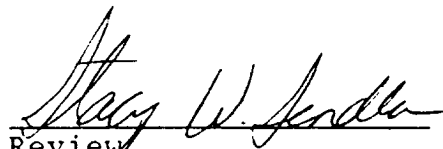
Parameter -----	Concentration (mg/kg) -----	DF = -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	8850	10	10.0

ND = Parameter not detected at the stated detection limit.
DF = Dillution factor.

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

Comments: C1 - L.F.


Analyst


Review

ENVIROTECH Inc

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

PIT No: PA 223
C.O.C # 4342

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

FACILITY LOCATION: San Juan 32-7 #80 PC Sec 3 T31K R7W SJC NM

SOURCE LOCATION:

SOURCE LOCATION:

SOURCE LOCATION:

FACILITY CLASSIFICATION: On-site Landfarm

PIT TYPE: Seperator

DATE STARTED: 8/16/95

DATE FINISHED: 8/16/95

ENVIRONMENTAL
SPECIALIST: HMB

SOIL REMEDIATION: QUANTITY: +/- 160 cyd # OF COMP. SAMPLES: 1
DIMENSIONS: 39' x 78' x 1.4'

VISIBLE OBSERVATIONS: Deeply plowed; large clods, some oil stains

SAMPLING PLAN: 1 5pt. composite 6"-8" below surface

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 27 YARDS SE FROM WELLHEAD.

DEPTH TO GROUNDWATER: 235'

NEAREST WATER SOURCE/TYPE: >1,000

NEAREST SURFACE WATER: >1,000

MAX TPH PER NMOC: 5,000 ppm

Loose dry soil clods to 12" +/-

Moist below 12", hard

No. OF 5-POINT
COMPOSITE SAMPLES:
YARDAGE--#

0-200=1

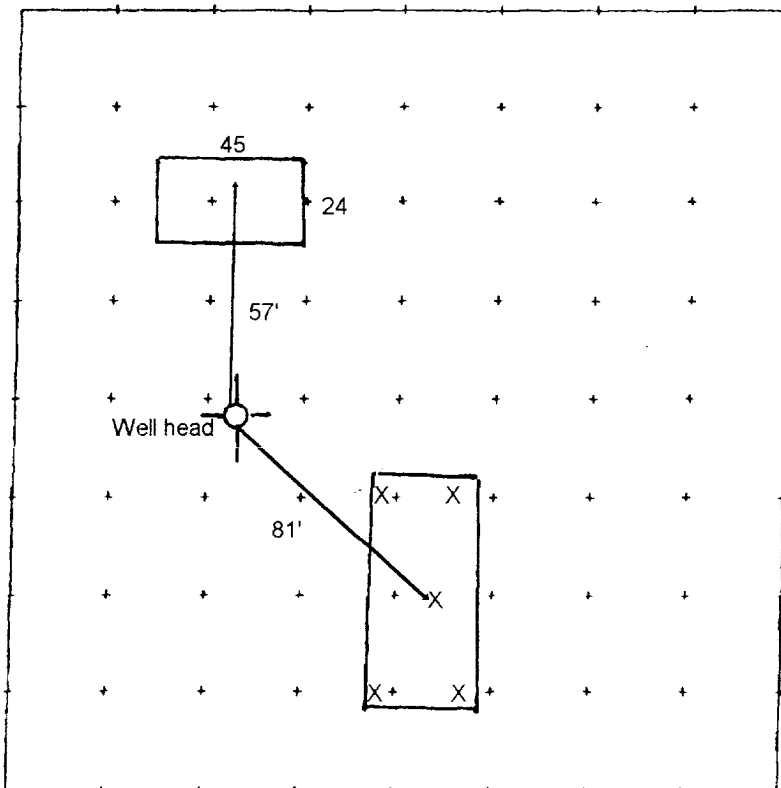
201-400=2

401-1000=3

>1000=5

FACILITY DIAGRAM

GRID SCALE: 1" = 60'



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PH (ppm)
C1	1.8 ppm

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS (PPM)
C1	TPH	2880

NORTH

WELLHEAD

SURFACE
FLOW DIR.

ESTIMATED
GROUNDWATER
FLOW DIR.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	San Juan 32-7 #80 PC	Date Reported:	08-18-95
Laboratory Number:	8807	Date Sampled:	08-16-95
Chain of Custody No:	4342	Date Received:	08-16-95
Sample Matrix:	Soil	Date Extracted:	08-17-95
Preservative:	Cool	Date Analyzed:	08-18-95
Condition:	Cool and Intact	Analysis Needed:	TPH

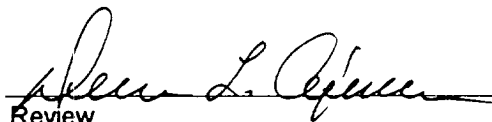
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	2,880	10

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: **PA223. Various Landfarms.**


Analyst


Review

4342

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS										Remarks					
PHILLIPS Petroleum		93163		Various Landfills															
Sampler: (Signature)		Chain of Custody Tape No.		Sample No./ Identification		Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH								
Harlan M Brown				C1		8-16-95	11:34	8801	Soil	1	✓								
				C1		8-16-95	12:37	8802	Soil	1	✓								
				C1		8-16-95	13:42	8803	Soil	1	✓	IF TPH > 100ppm THEN 8020 BTEX							
				C2		8-16-95	13:59	8804	Soil	1	✓	IF TPH > 100ppm THEN 8020 BTEX							
				C3		8-16-95	14:15	8805	Soil	1	✓	IF TPH > 100ppm THEN 8020 BTEX							
				C1		8-16-95	16:19	8806	Soil	1	✓								
				C1		8-16-95	16:55	8807	Soil	1	✓								
				C1		8-16-95	18:46	8808	Soil	1	✓								
tellingushed by: (Signature)		Harlan M Brown		8-16-95		19:35		Received by: (Signature)		Walter Spencer		Date		8-16-95		Time		1935	
tellingushed by: (Signature)								Received by: (Signature)											
tellingushed by: (Signature)								Received by: (Signature)											

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615