

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

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

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: A.P.A. Development - NMCD Telephone: 505-334-6178
Address: 1000 Rio Brazos Rd. AZTEC, NM 87410
Facility Or: SANTA FE LEGGS #1
Well Name
Location: Unit or Qtr/Qtr Sec 0 sec 11 T 21N R 10W county MCKINLEY
Pit Type: Separator Dehydrator other Produced Water
Land Type: BLM State, Fee X, other Navajo Surface

Pit Location: Pit dimensions: length 65, width 65, depth 10
(Attach diagram) Reference: wellhead X, other
Footage from reference: 250'
Direction from reference: 90 Degrees X East North X
of
West South

Depth To Ground Water:
(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet	(20 points)
50 feet to 99 feet	(10 points)
Greater than 100 feet	(0 Points) <u>0</u>

Wellhead Protection Area:
(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

Yes	(20 points)
No	(0 points) <u>0</u>

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) <u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 1-15-01 Dated Completed: 03-07-01

Remediation Method: Excavation X
(Check all appropriate sections)

Approx. cubic yards 55

Landfarmed X

Insitu Bioremediation

Other Sample; close AFTER Receiving results

Remediation Location:

(ie. landfarmed onsite,
name and location of
offsite facility)

Onsite X Offsite

ON-SITE

For soil from TANK BATTERY (55cy)

OFF-SITE For 80cy BS&W (Parabo-Eunkel)

General Description Of Remedial Action: Sample & close Produced water Pit;

REMOVE BS&W materials to Parabo/Sundance Services for Treatment; on-site Landfarmed
for contaminated soil @ Leaking Tank Battery.

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 5 point sample from Sidewalks & Bottom
of produced water pit.

Sample depth 24" Below pit Bottom @ center & 4 edges

Sample date 1-15-01

Sample time 10:40

Sample Results

Benzene(ppm) 0.0135 ppm

Total BTEX(ppm) 0.155 ppm

Field headspace(ppm) N/A

TPH 31.2 ppm

Ground Water Sample:

Yes

No X

(If yes, attach sample results)

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

DATE 03-16-01

SIGNATURE Harlan M. Brown

PRINTED NAME HARLAN M. Brown

AND TITLE Geologist / Hydrogeologist

PIT NO: _____

A.P.A. WOOSLEY

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

C.O.C. NO: 8459

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 99042-002

PAGE No: 1 of 1

LOCATION: NAME: SANTA FE LEGG WELL #: 1 PIT: Produced H₂O

DATE STARTED: 1-15-01

QUAD/UNIT: 0 SEC: 11 TWP: 21N RNG: 10W BM: CNTY: HCK ST: NM

DATE FINISHED: 03-07-01

QTR/FOOTAGE:

CONTRACTOR: **EnviroTech**

ENVIRONMENTAL SPECIALIST: HMB

SOIL REMEDIATION: EXCAVATION APPROX. 30 FT. x 50 FT. x 1 FT. DEEP.

DISPOSAL FACILITY: on-site CUBIC YARDAGE: ± 55cy.

LAND USE: RANGE LEASE: FEDERAL

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 250' FEET ENE FROM WELLHEAD.

DEPTH TO GROUNDWATER: 7100 NEAREST WATER SOURCE: 71000 NEAREST SURFACE WATER: 71000

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

SOIL AND EXCAVATION DESCRIPTION: Sample pit & close AFTER receiving results. Haul 4 Loads BS&W from 5000 bbl Tank to PARABO. Then spread petroleum hydrocarbon soil from 2nd Containment (4 Tanks) on location. Pick up All debris for disposal or recycling. Burr Concrete in produced water pit.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE



0

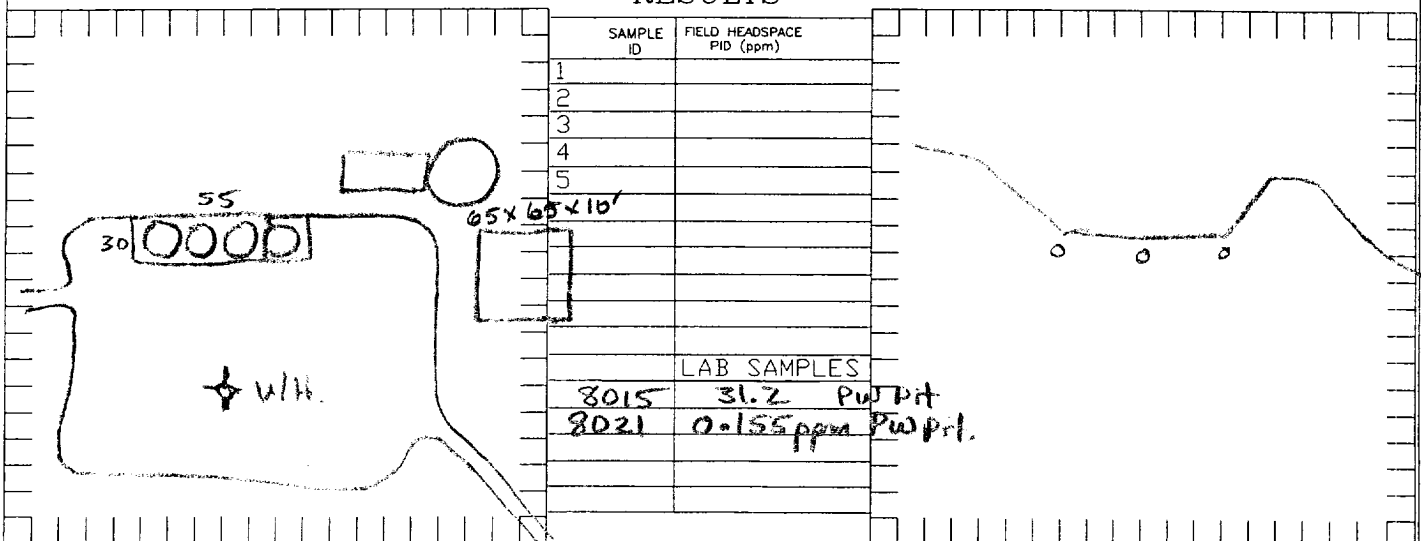
FEET

PIT PERIMETER

OVM

RESULTS

PIT PROFILE



TRAVEL NOTES:

CALL OUT:

ONSITE:

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

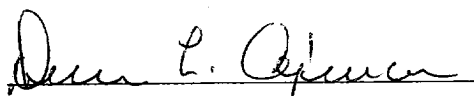
Client:	A Plus Well Service - NMOCD	Project #:	99042-002
Sample ID:	Santa Fe Leggs #1	Date Reported:	01-17-01
Laboratory Number:	19082	Date Sampled:	01-15-01
Chain of Custody No:	8459	Date Received:	01-15-01
Sample Matrix:	Soil	Date Extracted:	01-17-01
Preservative:	Cool	Date Analyzed:	01-17-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

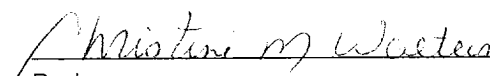
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	31.2	0.1
Total Petroleum Hydrocarbons	31.2	0.1

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: **A.P.A. Woosley, Hospah. 5 Pt.; Produced Water Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A Plus Well Service - NMOCD	Project #:	99042-002
Sample ID:	Santa Fe Leggs #1	Date Reported:	01-17-01
Laboratory Number:	19082	Date Sampled:	01-15-01
Chain of Custody:	8459	Date Received:	01-15-01
Sample Matrix:	Soil	Date Analyzed:	01-17-01
Preservative:	Cool	Date Extracted:	01-17-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	13.5	1.8
Toluene	26.7	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	82.3	2.2
o-Xylene	33.0	1.0
Total BTEX	155	

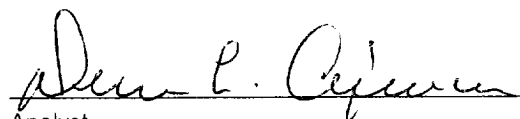
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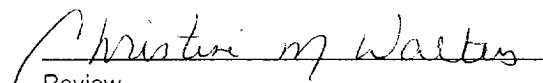
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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: A.P.A. Woosley, Hospah. 5 Pt.; Produced Water Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

08459

Client / Project Name		Project Location		ANALYSIS / PARAMETERS											
A Plus Well Service - NMOC		A.P.A. Woosley, Haspett													
Sampler:		Client No.		Sample Matrix		No. of Containers								Remarks	
Harlan W. Brown		99042-002 904202													
SANTA FE LEGS #1	01.15.01	10:40	19082	Soil	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 Pt.; Produced Water Pit.
Nordline	01.15.04	12:35	19083	Soil	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 Pt.; Reserve Pit.
Bullseye #10	01.15	13:00	19084	Soil	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 Pt.; East Pit @ Separator
Nordline	01.15	14:10	19085	Soil	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 Pt.; Pit.
Bullseye #7	01.15	14:30	19086	Soil	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 Pt.; Pit.
Nordline	01.15	15:05	19087	Soil	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 Pt.; Produced Water Pit.
Bullseye #8	01.15	15:45	19088	Soil	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 Pt.; Truss Pit w/ H.
Nordline	01.15	16:20	19089	Soil	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 Pt.; W produced water Pit
Bullseye #5	01.15	17:25	19090	Soil	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 Pt.; Truss Pit.
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time					
Harlan W. Brown		01.15.01		20:15		P. O. Brown		1-15-01		20:15					
Relinquished by: (Signature)						Received by: (Signature)									
Relinquished by: (Signature)						Received by: (Signature)									

ENVIROTECH INC.

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

Sample Receipt

Y	N	N/A
Received Intact	✓	
Cool - Ice/Blue Ice	✓	

ENVIROTECH Inc.

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

PIT No: 9264
C.O.C #: 9264

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 99042-002
PAGE No: 1 of 1

FACILITY LOCATION: SANTA FE LEGGS #1 "O" SEC II, T21N, R10W; San Juan
SOURCE LOCATION: Produced Water Pit
SOURCE LOCATION: 2nd Containment @ Crude TANK BATTERY.
SOURCE LOCATION:
FACILITY CLASSIFICATION: ONSITE LANDFARM PIT TYPE: Produced Water

DATE STARTED: 6.22.01
DATE FINISHED:

ENVIRONMENTAL
SPECIALIST: HMB

SOIL REMEDIATION: QUANTITY: 120 Cy # OF COMP. SAMPLES: 1
DIMENSIONS: 189 X 450
VISIBLE OBSERVATIONS: NATIVE GRASS growing well; THIN Blended Lift
SAMPLING PLAN: 5 pt. Composite

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

DEPTH TO GROUNDWATER: > 100'
NEAREST WATER SOURCE/TYPE: > 1000'
NEAREST SURFACE WATER: > 1000'
MAX TPH PER NMOC: 5000 ppm

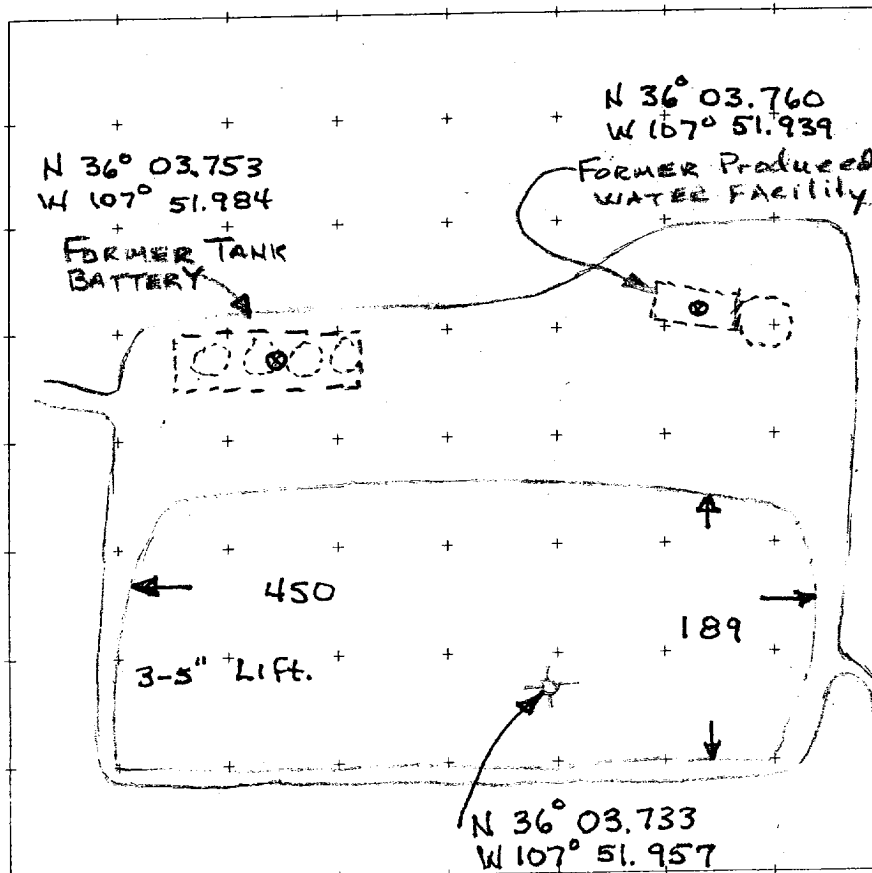
No. OF 5-POINT
COMPOSITE SAMPLES:
YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

P&A MARKER IN South Central Portion of
LANDFARM.

± 120 cubic yards of soil From bermed 2nd
containment @ TANK BATTERY & Produced Water
Pit.

FACILITY DIAGRAM

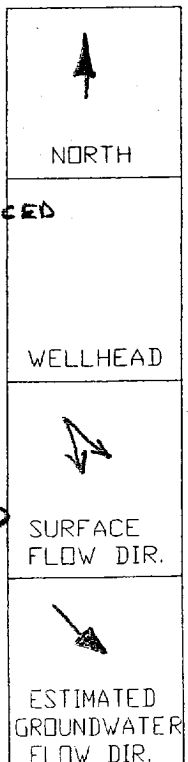
GRID SCALE:



N 36° 03.750
W 107° 51.911
FORMER PRODUCED
WATER PIT

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
	8015	2250
	8021	0.019



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

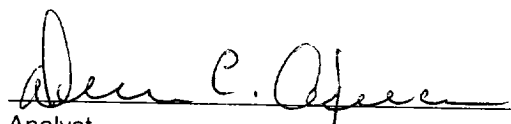
Client:	A Plus Well Service	Project #:	99042-002
Sample ID:	5 Pt Comp. Onsite Landfarm	Date Reported:	06-26-01
Laboratory Number:	20125	Date Sampled:	06-22-01
Chain of Custody No:	9264	Date Received:	06-22-01
Sample Matrix:	Soil	Date Extracted:	06-25-01
Preservative:	Cool	Date Analyzed:	06-26-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

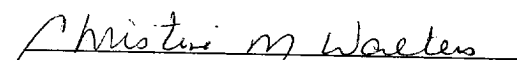
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.7	0.2
Diesel Range (C10 - C28)	2,250	0.1
Total Petroleum Hydrocarbons	2,250	0.1

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: **Santa Fe Leggs #1.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A Plus Well Service	Project #:	99042-002
Sample ID:	5 Pt. Comp. Onsite Landfarm	Date Reported:	06-26-01
Laboratory Number:	20125	Date Sampled:	06-22-01
Chain of Custody:	9264	Date Received:	06-22-01
Sample Matrix:	Soil	Date Analyzed:	06-26-01
Preservative:	Cool	Date Extracted:	06-25-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	11.4	1.8
Toluene	2.3	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	5.6	2.2
o-Xylene	ND	1.0
Total BTEX	19.3	

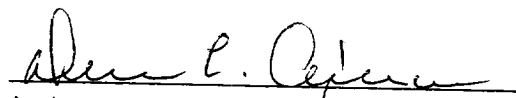
ND - Parameter not detected at the stated detection limit.

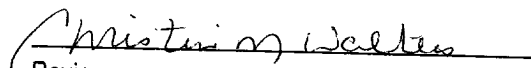
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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: Santa Fe Leggs #1.


Analyst


Review

09264

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