

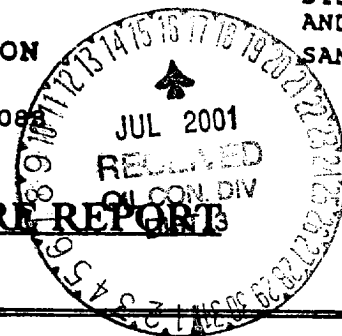
District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

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: Mardian Company Inc NMOCN Telephone: 505-334-6178

Address: 1600 Rio Brazos AZTEC, NM 87410

Facility or: Bulls-eye well #12
Well Name

Location: Unit or Qtr/Qtr Sec M Sec 18 T 16N R 9W County McKinley

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

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

Pit Location: Pit dimensions: length 18, width 15, depth 12'
(Attach diagram)

Reference: wellhead ☒, other ☐

Footage from reference: 90'

Direction from reference: 80 Degrees ☐ East North ☒
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) C

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) C

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) B

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 01-15-01 Dated Completed: 06-27-01

Remediation Method: Excavation X
(Check all appropriate sections)

Approx. cubic yards 120cy.

Landfarmed X

Insitu Bioremediation

Other

Remediation Location: Onsite X Offsite
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: Excavate Pit bottom to 12' removing oily/PARAFIN saturated Soil. Sample @ bedrock 4 sides and center. TPH & BTEX Constituents below regulatory limits @ bottom. Use berms to back fill pit and contour to natural drainage pattern

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 4 sides and center @ Bedrock bottom of pit

Sample depth 12'

Sample date 3-12-01

Sample time 16:15

Sample Results

Benzene(ppm) .396

Total BTEX(ppm) 2.470

Field headspace(ppm) NA

TPH 3240

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 6-27-01

SIGNATURE Harlan M. Brown PRINTED NAME Harlan M. Brown
AND TITLE Geologist / Hydrogeologist

C.O.C. NO: 8546

CALL OUT: _____ ONSITE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

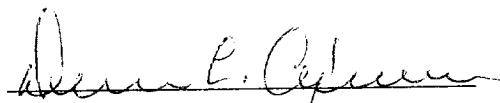
Client:	A Plus / NMOCD	Project #:	99042-002
Sample ID:	Bullseye #12	Date Reported:	03-14-01
Laboratory Number:	19374	Date Sampled:	03-12-01
Chain of Custody No:	8546	Date Received:	03-12-01
Sample Matrix:	Soil	Date Extracted:	03-14-01
Preservative:	Cool	Date Analyzed:	03-14-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

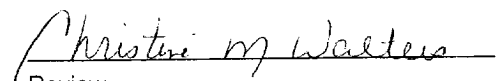
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	151	0.2
Diesel Range (C10 - C28)	3,090	0.1
Total Petroleum Hydrocarbons	3,240	0.1

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: **Nerdlihc Separator Pit @ Bedrock (12').**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A Plus / NMOCD	Project #:	99042-002
Sample ID:	Bullseye #12	Date Reported:	03-14-01
Laboratory Number:	19374	Date Sampled:	03-12-01
Chain of Custody:	8546	Date Received:	03-12-01
Sample Matrix:	Soil	Date Analyzed:	03-14-01
Preservative:	Cool	Date Extracted:	03-14-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	396	1.8
Toluene	528	1.7
Ethylbenzene	249	1.5
p,m-Xylene	866	2.2
o-Xylene	435	1.0
Total BTEX	2,470	

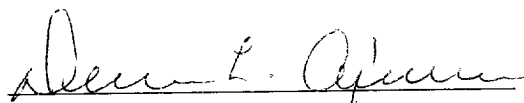
ND - Parameter not detected at the stated detection limit.

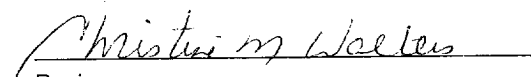
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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: Nerdlihc Separator Pit @ Bedrock (12').


Analyst


Review

08546

[illegible]

A PLUS NMOC
Hardline Co.

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: 9265

FIELD REPORT: REMEDIATION FACILITY
CLOSURE VERIFICATION

JOB No: 92042-002
PAGE No: 1 of 1

FACILITY LOCATION: Bullseye #12 N, Sec 18, T16N, R9W
SOURCE LOCATION: _____
SOURCE LOCATION: _____
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: On-site Land Farm PIT TYPE: Separator

DATE STARTED: 01-15-01
DATE FINISHED: 06-27-01

ENVIRONMENTAL
SPECIALIST: HUB

SOIL REMEDIATION: QUANTITY: 120 # OF COMP. SAMPLES: 1
DIMENSIONS: 90 X 120
VISIBLE OBSERVATIONS: Moderate oily spots in thin spread mat'l.
SAMPLING PLAN: 1-5 pt. Composite

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

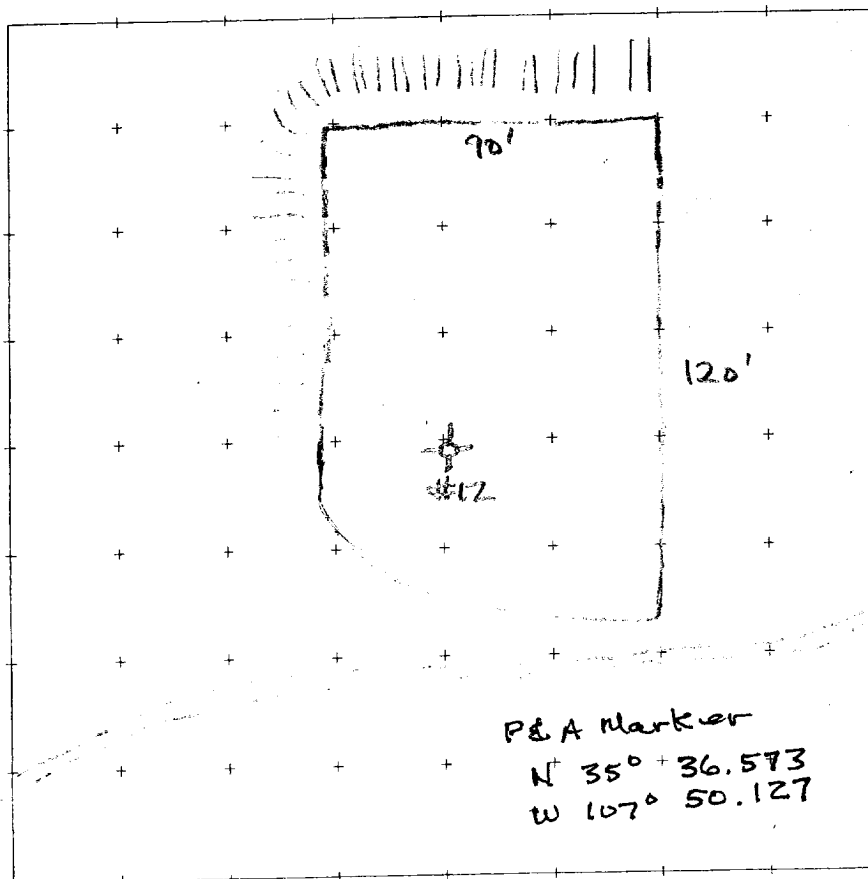
DEPTH TO GROUNDWATER: >100
NEAREST WATER SOURCE/TYPE: >1000
NEAREST SURFACE WATER: >1000
MAX TPH PER NMOC: 5000 ppm

Soil very dry, hard clods.
Some evidence of melting
paraffin scattered throughout.
Material is in very thin lift.

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

FACILITY DIAGRAM

GRID SCALE:

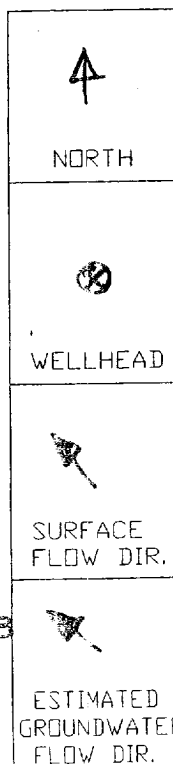


OVM
RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB
RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
20132		
	2015 1643	
	2021 - 04118	



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

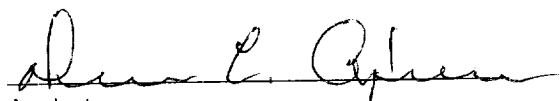
Client:	A Plus Well Service	Project #:	99042-002
Sample ID:	Bullseye #12	Date Reported:	06-27-01
Laboratory Number:	20132	Date Sampled:	06-22-01
Chain of Custody No:	9265	Date Received:	06-22-01
Sample Matrix:	Soil	Date Extracted:	06-25-01
Preservative:	Cool	Date Analyzed:	06-27-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

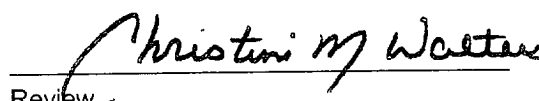
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.0	0.2
Diesel Range (C10 - C28)	1,640	0.1
Total Petroleum Hydrocarbons	1,640	0.1

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: **Nerdlihc on-site Landfarm 5 Pt. Composite.**


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:	Bullseye #12	Date Reported:	06-27-01
Laboratory Number:	20132	Date Sampled:	06-22-01
Chain of Custody:	9265	Date Received:	06-22-01
Sample Matrix:	Soil	Date Analyzed:	06-27-01
Preservative:	Cool	Date Extracted:	06-25-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	3.5
Toluene	ND	3.3
Ethylbenzene	44.8	3.0
p,m-Xylene	ND	4.3
o-Xylene	ND	2.1
Total BTEX	44.8	

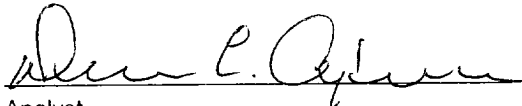
ND - Parameter not detected at the stated detection limit.

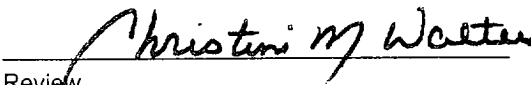
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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: Nerdlihc on-site Landfarm 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

09265

Client / Project Name				Project Location		ANALYSIS / PARAMETERS									
A Plus Wall Service				NEROLITE											
Sampler:				Client No.											
HARLAN M. BROWN				99042-002											
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015	1P4	8021	BTX						Remarks
Bullseye #15	6-22-01	11:35	20126	Soil	1	✓		✓						ON-SITE Landform	
Marcellia #1	6-22-01	11:45	20127	Soil	1	✓		✓						ON-SITE Landform	
Bullseye Truck Bat	6-22-01	12:00	20128	Soil	1	✓		✓						ON-SITE Landform	
Bullseye #7	6-22-01	12:23	20129	Soil	1	✓		✓						LANDFARM FOR TRUCK BATTERY SOIL	
Bullseye 1Y	6-22-01	12:35	20130	Soil	1	✓		✓						ON-SITE Landform	
Bullseye #3	6-22-01	12:52	20131	Soil	1	✓		✓						ON-SITE Landform includes plat 1 on #2	
Bullseye #12	6-22-01	13:04	20132	Soil	1	✓		✓						ON-SITE Landform	
Bullseye #16	6-22-01	13:18	20133	Soil	1	✓		✓						ON-SITE Landform	
Relinquished by: (Signature)					Date	Time	Received by: (Signature)								
Harlan M. Brown					6-22-01	17:00	[Signature]								
Relinquished by: (Signature)							Received by: (Signature)								
Relinquished by: (Signature)							Received by: (Signature)								

Sample Receipt			
Y	N	N/A	
			Received Intact
			Cool - Ice/Blue Ice

ENVIROTECH INC.

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