

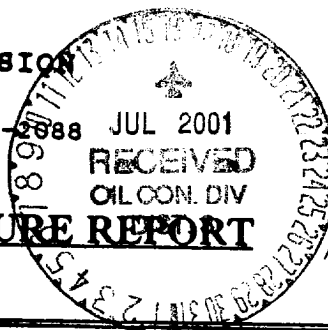
District I
P O Box 1980, Hobbs, NM
District II
P O Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

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 TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE



PIT REMEDIATION AND CLOSURE REPORT

Operator: Nerdline Company, Inc NMOC Telephone: 505-334-6178

Address: 1000 Rio Brazos Rd, AZTEC, NM 87410

Facility Or: Bullseye IV
Well Name

Location: Unit or Qtr/Qtr Sec C sec 19 T 16N R 9W county MCKINLEY

Pit Type: Separator Dehydrator Other Produced water

Land Type: BLM State, Fee X, Other

Pit Location: Pit dimensions: length 45, width 45, depth 6
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 80

Direction from reference: 180 Degrees East North West South X

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) 0

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) 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

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 01-15-01 Dated Completed: 03-13-01

Remediation Method: Excavation _____ Approx. cubic yards _____
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other Sample: close on receipt of Results

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

General Description Of Remedial Action: Sample pit @ 4 sidewalls and center 24" Below pit Bottom; close on receipt of results

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 sidewalls and center Composite.

Sample depth 24" below Pit surface.

Sample date ~~02-12~~ 01-15-01 Sample time 15:05

Sample Results

Benzene(ppm) 0.0084

Total BTEX(ppm) 0.103

Field headspace(ppm) _____

TPH 2.7 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 3-16-01

SIGNATURE Harlan M. Brown PRINTED NAME HARLAN M. BROWN
AND TITLE GEOLOGIST / HYDROGEOLOGIST

CLIENT: NMOCD
NEROLINE

ENVIROTECH Inc.

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

PIT NO: _____

C.O.C. NO: 8459

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 99042-002

PAGE No: 1 of 2

LOCATION: NAME: BULLSEYE WELL #: 1Y PIT: Produced H₂O

QUAD/UNIT: C SEC: 19 TWP: 16N RNG: 9W BM: _____ CNTY: HCK ST: NM

QTR/FOOTAGE: _____

CONTRACTOR: ENVirotech

ENVIRONMENTAL
SPECIALIST: HUB

SOIL REMEDIATION: EXCAVATION APPROX. 0 FT. x _____ FT. x _____ FT. DEEP.

DISPOSAL FACILITY: _____ CUBIC YARDAGE: _____

LAND USE: RANGE LEASE: FEE

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 80 FEET S FROM WELLHEAD.

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

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

SOIL AND EXCAVATION DESCRIPTION:

No Excavation @ produced water pit.
Sampled @ 4 sidewalls and center 24" below pit surface. Removed
Production related piping, equipment & debris for recycling &
disposal.

FIELD 418.1 CALCULATIONS

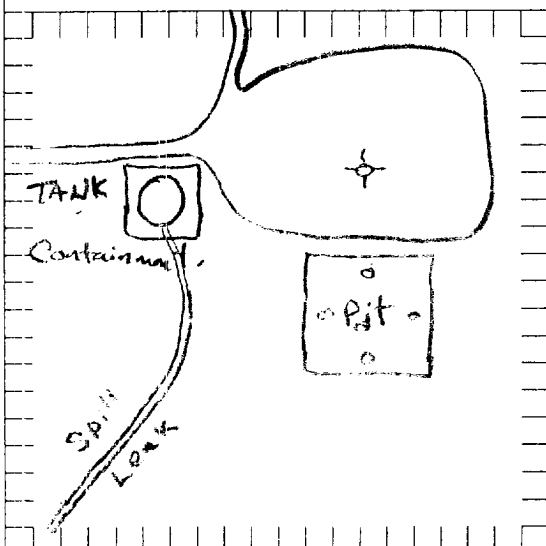
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE



0 FEET

PIT PERIMETER



OVM
RESULTS

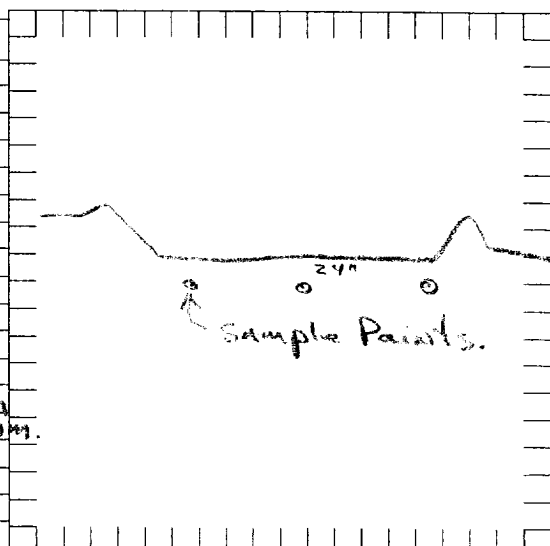
SAMPLE ID FIELD HEADSPACE PID (ppm)

1
2
3
4
5

LAB SAMPLES

3015 2.7 ppm
3021 0.103 ppm

PIT PROFILE



TRAVEL NOTES:

CALLOUT: _____

ONSITE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

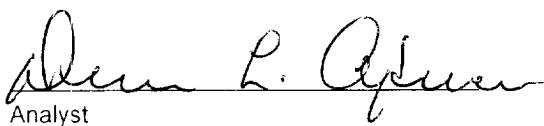
Client:	A Plus Well Service - NMOCD	Project #:	99042-002
Sample ID:	Nerdlihc Bullseye #1Y	Date Reported:	01-17-01
Laboratory Number:	19087	Date Sampled:	01-15-01
Chain of Custody No:	8459	Date Received:	01-15-01
Sample Matrix:	Soil	Date Extracted:	01-17-01
Preservative:	Cool	Date Analyzed:	01-17-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

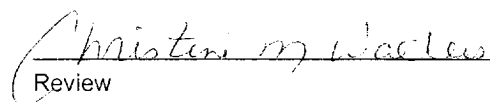
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.7	0.1
Total Petroleum Hydrocarbons	2.7	0.1

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:	Nerdlihc Bullseye #1Y	Date Reported:	01-17-01
Laboratory Number:	19087	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	8.4	1.8
Toluene	18.9	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	53.9	2.2
o-Xylene	21.7	1.0
Total BTEX	103	

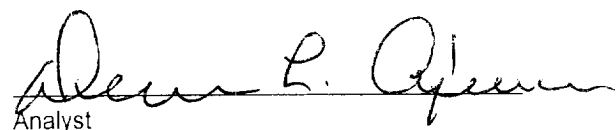
ND - Parameter not detected at the stated detection limit.

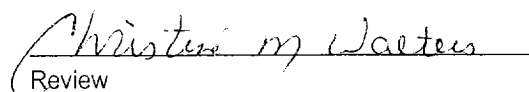
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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: 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 - NMOCD		A.P.A. Woosley, Hospital																			
Sampler:		Client No.		Lab Number		Sample Matrix		No. of Containers		8015		8021		Remarks							
HARLAN W. BROWN		99042-002		904202		Soil		1		✓		✓		5 Pt.; Produced water Pit.							
SANTA FE LEGS #1		01.15.04		10:40		Soil		1		✓		✓		5 Pt.; Reserve Pit.							
Nardline Bullseye #10		01.15.04		12:35		Soil		1		✓		✓		5 Pt.; East Pit @ Separation							
Nardline Bullseye #3		01.15		13:00		Soil		1		✓		✓		5 Pt.; Pit.							
Nardline Bullseye #7		01.15		14:10		Soil		1		✓		✓		5 Pt.; Pit.							
Nardline Bullseye #8		01.15		14:30		Soil		1		✓		✓		5 Pt.; Produced water Pit.							
Nardline Bullseye #14		01.15		15:05		Soil		1		✓		✓		5 Pt.; Truss Pit & of W.H.							
Marcelina No 5		01.15		15:45		Soil		1		✓		✓		5 Pt.; W produced water Pit							
Marcelina No 1		01.15		16:20		Soil		1		✓		✓		5 Pt.; Truss Pit.							
Nardline Bullseye #6		01.15		17:25		Soil		1		✓		✓									
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)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
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		✓					

Date Remediation Started: 03.07.01 Dated Completed: 03-13.01

Remediation Method: Excavation ☒ Approx. cubic yards 60 cy.
(Check all appropriate sections)

Landfarmed ☒ onsite Insitu Bioremediation ☐

Other _____

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

General Description Of Remedial Action: Excavate ^{Crude} oil contaminated soil
in Bermed Containment and along spill trace south of tank
approximately 50' south of tank, loosen lightly contaminated
soil along drainage another 200-250' S-SW of TANK.
Landfarm / THW spread material on location.

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 4 sidewalls and center of excavation

@ Sawy Stone Bedrock

Sample depth ± 6' Below Natural Grade

Sample date 03-12.01 Sample time 15:44

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 1.820 ppm.

Field headspace(ppm) _____

TPH 2740 ppm

Ground Water Sample: Yes ☐ No ☒ (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 3.16.01

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

PIT NO:

C.D.C. NO: 8546

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 99042-002

PAGE No: 2 of 2

LOCATION: NAME: BULLSEYE WELL #: 1Y PIT: Production Tank
QUAD/UNIT: C SEC: 19 TWP: 16N RNG: 9W BM: _____ CNTY: MCK ST: NE
QTR/FOOTAGE: _____ CONTRACTOR: ENVIRATECH

DATE STARTED: _____

DATE FINISHED: _____

ENVIRONMENTAL
SPECIALIST:

SOIL REMEDIATION: EXCAVATION APPROX. 15 FT. x 20 FT. x 6 FT. DEEP.

DISPOSAL FACILITY: On-site LF CUBIC YARDAGE: 60

LAND USE: Grazing LEASE: FEE

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 110 FEET West 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: Excavate Area below Tank containment bedrock @ 6', also remove 2' x 50' x 2' oil stain along tank. LANDFARM on-site. Loosen Lighter staining along drainage 250' SW of TANK.

FIELD 418.1 CALCULATIONS

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

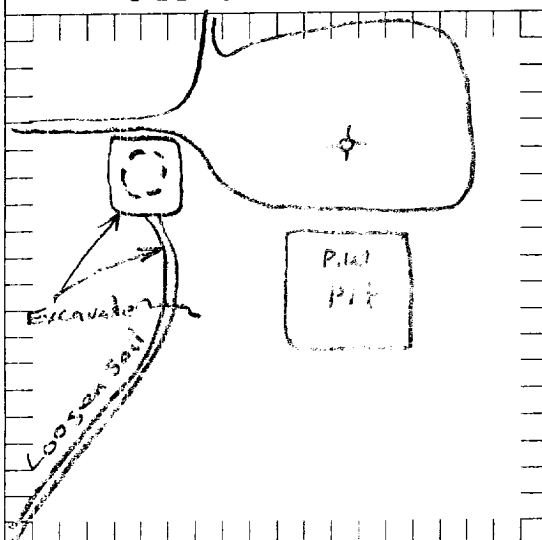
SCALE



0

FEET

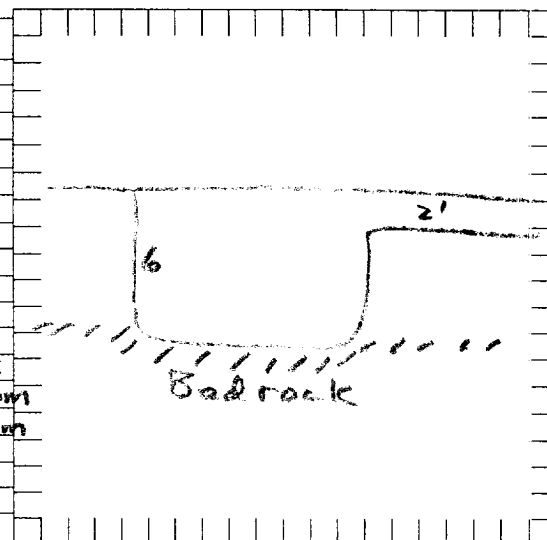
PIT PERIMETER



OVM RESULTS

[illegible]

PIT PROFILE



TRAVEL NOTES:

CALLOUT: _____ ONSITE: _____

ONSITE: _____

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

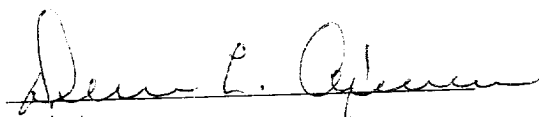
Client:	A Plus / NMOCD	Project #:	99042-002
Sample ID:	Bullseye #1Y Tank Ln Leaks	Date Reported:	03-14-01
Laboratory Number:	19376	Date Sampled:	03-12-01
Chain of Custody No:	8547	Date Received:	03-12-01
Sample Matrix:	Soil	Date Extracted:	03-14-01
Preservative:	Cool	Date Analyzed:	03-14-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

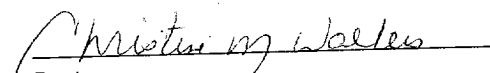
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	184	0.2
Diesel Range (C10 - C28)	2,560	0.1
Total Petroleum Hydrocarbons	2,740	0.1

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 Bedrock @ 6'.
Extra To Contract.


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 #1Y Tank Ln Leaks	Date Reported:	03-14-01
Laboratory Number:	19376	Date Sampled:	03-12-01
Chain of Custody:	8547	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	ND	1.8
Toluene	342	1.7
Ethylbenzene	260	1.5
p,m-Xylene	678	2.2
o-Xylene	540	1.0
Total BTEX	1,820	

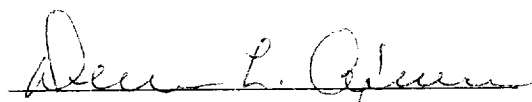
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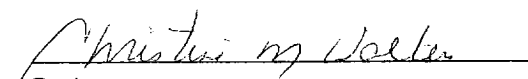
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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: Nerdlihc Bedrock @ 6'.
Extra to Contract.


Analyst


Review

08547

[illegible]

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

FIELD REPORT: REMEDIATION FACILITY
CLOSURE VERIFICATION

JOB No: 99042-002
PAGE No: of

FACILITY LOCATION: Norolinc Bullseye 1Y
SOURCE LOCATION: Contents: about Soil under Production TANK
SOURCE LOCATION: _____
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

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

ENVIRONMENTAL SPECIALIST: HME

SOIL REMEDIATION: QUANTITY: 60 cy # OF COMP. SAMPLES: 1
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

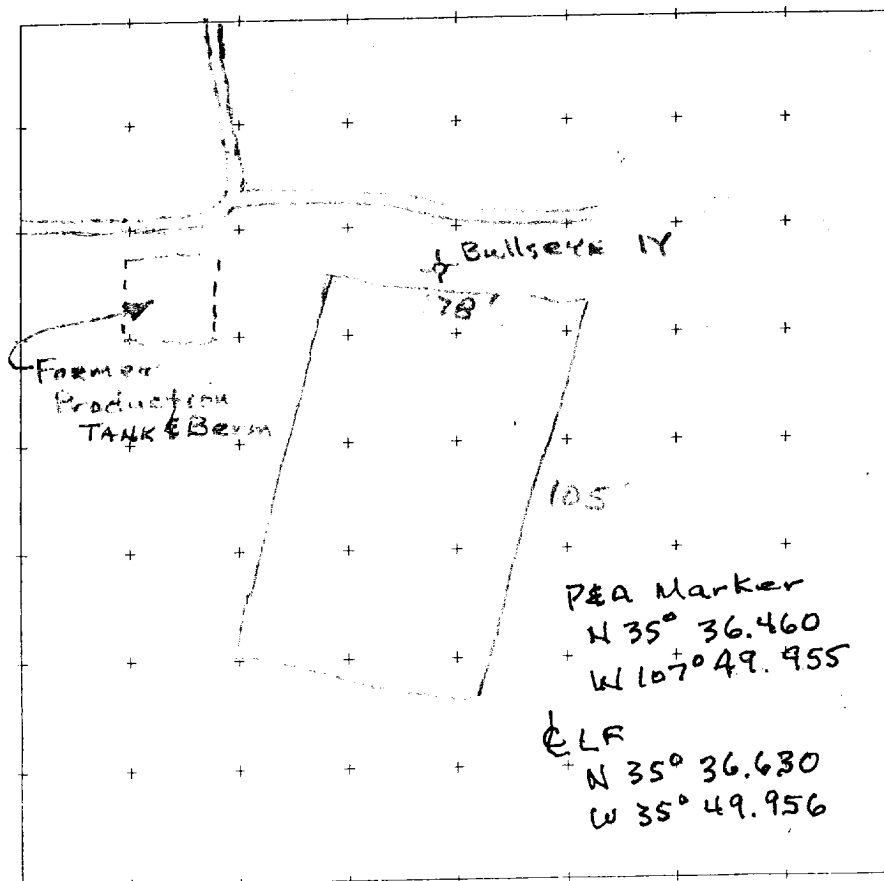
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 1 YARDS S FROM WELLHEAD.

DEPTH TO GROUNDWATER: 7100
NEAREST WATER SOURCE/TYPE: > 1000
NEAREST SURFACE WATER: > 1000
MAX TPH PER NMOC: 5000

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

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

[illegible]

LAB RESULTS

[illegible]

NORTH



WELLHEAD



SURFACE
FLOW DIR.



ESTIMATED
GROUNDWATER
FLOW DIR.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

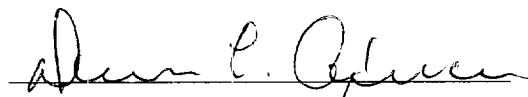
Client:	A Plus Well Service	Project #:	99042-002
Sample ID:	Bullseye 1Y	Date Reported:	06-27-01
Laboratory Number:	20130	Date Sampled:	06-22-01
Chain of Custody No:	9265	Date Received:	06-22-01
Sample Matrix:	Soil	Date Extracted:	06-25-01
Preservative:	Cool	Date Analyzed:	06-27-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

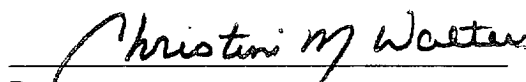
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	18.1	0.2
Diesel Range (C10 - C28)	2,770	0.1
Total Petroleum Hydrocarbons	2,790	0.1

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 1Y	Date Reported:	06-27-01
Laboratory Number:	20130	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	ND	3.0
p,m-Xylene	ND	4.3
o-Xylene	ND	2.1
Total BTEX	ND	

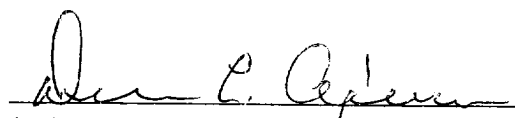
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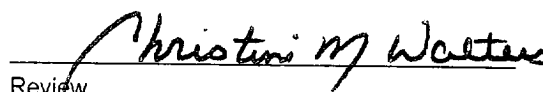
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95 %
	1,4-difluorobenzene	95 %
	Bromochlorobenzene	95 %

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 Well Service				VERDOLITE											
Sampler: HAROLD M. BROWN				Client No. 99042-002											
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015	74	8021	8021						Remarks
Bullseye #15	6.22.01	11:35	20126	Soil	1	✓		✓						On-site Landform	
Marcellina #1	6.22.01	11:45	20127	Soil	1	✓		✓						On-site Landform	
Bullseye Truck Bed	6.22.01	12:00	20128	Soil	1	✓		✓						On-site Landform	
Bullseye #7	6.22.01	12:23	20129	Soil	1	✓		✓						LANDFORM 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) <i>Harold M. Brown</i>					Date	6.22.01	Time	17:00	Received by: (Signature) <i>[Signature]</i>		Date	6/22/01	Time	17:00	
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