

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-045-11143

Operator: APA Development Telephone: _____
Address: OCD Contract
Facility Or: Navajo M-1
Well Name _____
Location: Unit or Qtr/Qtr Sec M Sec 33 T 32N R 17W County San Juan
Pit Type: Separator ☒ Dehydrator _____ Other _____
Land Type: BLM _____, State _____, Fee _____ Other Navajo Tribal

Pit Location: Pit dimensions: length _____, width _____, depth _____
(Attach diagram)
Reference: wellhead _____, other _____
Footage from reference: _____
Direction from reference: _____ 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) 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: 08/01/01 Date completed: 08/03/01
Remediation Method: Excavation ☒ Approx. cubic yards _____
(Check all appropriate sections.) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite ☒ Offsite ☐

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

General Description of Remedial Action: Land farmed onsite by thin
spreading

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 5 point composite

Sample depth

Sample Date 08/03/01 Sample time 1330

Sample Results

Benzene(ppm) .0057

Total BTEX(ppm) .168

Field headspace(ppm)

TPH 899 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 3/27/03

Signature Henry Villanueva
for Charlie Perrin

Printed Name Charlie Perrin
and Title NMOC D

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

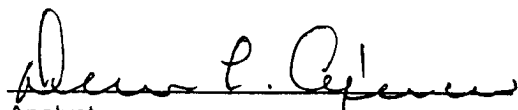
Client:	Key / NMOCD	Project #:	98065-002
Sample ID:	Navajo M - 1	Date Reported:	08-06-01
Laboratory Number:	20546	Date Sampled:	08-03-01
Chain of Custody No:	9461	Date Received:	08-03-01
Sample Matrix:	Soil	Date Extracted:	08-03-01
Preservative:	Cool	Date Analyzed:	08-06-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

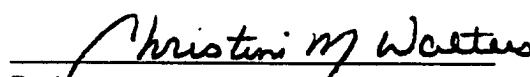
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	13.8	0.2
Diesel Range (C10 - C28)	885	0.1
Total Petroleum Hydrocarbons	899	0.2

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. Development 5 Pt. Comp. P.W. Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key / NMOCD	Project #:	98065-002
Sample ID:	Navajo M - 1	Date Reported:	08-06-01
Laboratory Number:	20546	Date Sampled:	08-03-01
Chain of Custody:	9461	Date Received:	08-03-01
Sample Matrix:	Soil	Date Analyzed:	08-06-01
Preservative:	Cool	Date Extracted:	08-03-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	5.7	1.8
Toluene	ND	1.7
Ethylbenzene	27.1	1.5
p,m-Xylene	110	2.2
o-Xylene	25.4	1.0
Total BTEX	168	

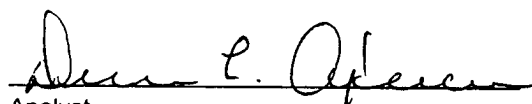
ND - Parameter not detected at the stated detection limit.

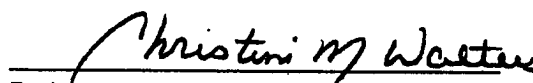
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95 %
	1,4-difluorobenzene	95 %
	Bromochlorobenzene	95 %

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: A.P.A. Development 5 Pt. Comp. P.W. Pit.


Analyst


Review

09461

ENVIROTECH INC.

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

ENVIROTECH Inc.

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

LF Navajo M-1

PIT NO. _____
C.O.C. #: 08826

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: _____
PAGE No: _____ of _____

FACILITY LOCATION: SWSW SEC 33 T32N R17W
SOURCE LOCATION: _____
SOURCE LOCATION: _____
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 11/8/02
DATE FINISHED: 1/8/02

ENVIRONMENTAL
SPECIALIST: HMB

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

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

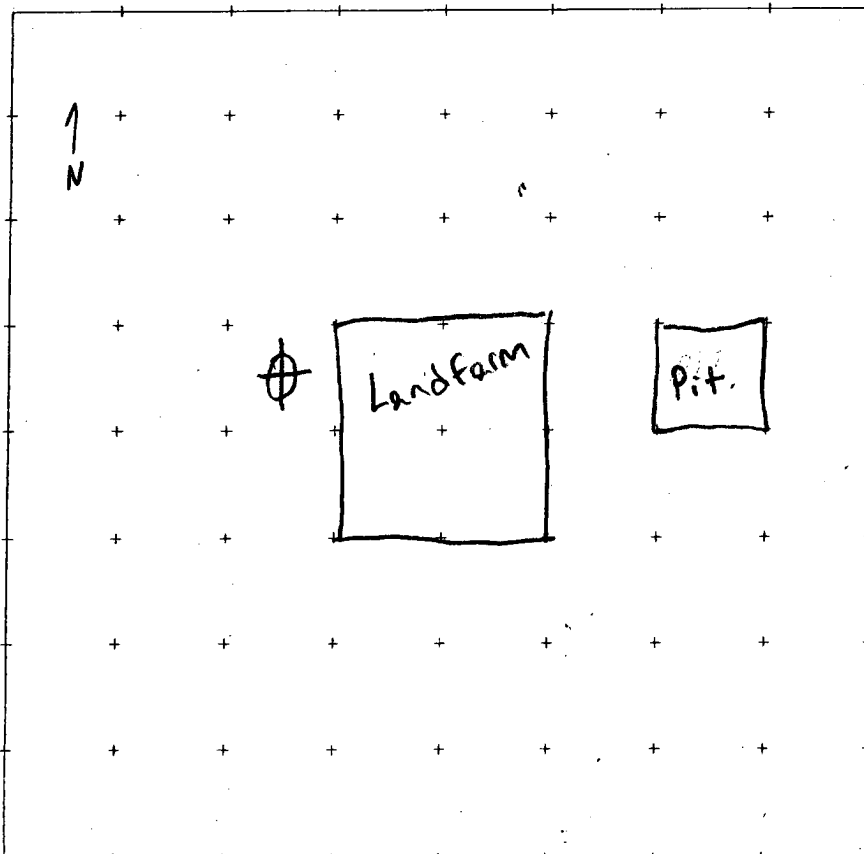
DEPTH TO GROUNDWATER: _____
NEAREST WATER SOURCE/TYPE: _____
NEAREST SURFACE WATER: _____
MAX TPH PER NMOC: _____

APA Navajo M-1 11/8/02

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:
APA Navajo M-1	8015	454
	8021	ND

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

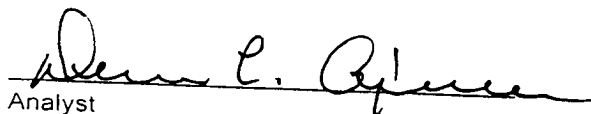
Client:	Key Energy	Project #:	98065-002
Sample ID:	APA Navajo M-1	Date Reported:	01-09-02
Laboratory Number:	21781	Date Sampled:	01-08-02
Chain of Custody No:	8886	Date Received:	01-08-02
Sample Matrix:	Soil	Date Extracted:	01-09-02
Preservative:	Cool	Date Analyzed:	01-09-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

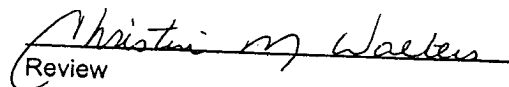
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	454	0.1
Total Petroleum Hydrocarbons	454	0.2

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: **BK - APA.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-002
Sample ID:	APA Navajo M-1	Date Reported:	01-09-02
Laboratory Number:	21781	Date Sampled:	01-08-02
Chain of Custody:	8886	Date Received:	01-08-02
Sample Matrix:	Soil	Date Analyzed:	01-09-02
Preservative:	Cool	Date Extracted:	01-09-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: BK - APA.

Analyst

Review

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