

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

State of New Mexico
Energy, Minerals and Natural Resources Department

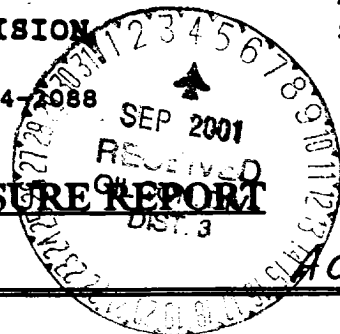
Blow - OK - 12/14/01

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: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: Florance B 1
Well Name
Location: Unit or Qtr/Qtr Sec E Sec 22 T 30N R 9W County San Juan
Pit Type: Separator Dehydrator Other blow
Land Type: BLM , State , Fee , Other Com. Agmt

Pit Location: Pit dimensions: length 18', width 18', depth 9'
(Attach diagram) Reference: wellhead ☒, other
Footage from reference: 55
Direction from reference: 72 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: _____ Date Completed: 5/26/94

Remediation Method: Excavation ☒
(Check all appropriate sections)

Approx. cubic yards 108

Landfarmed ☒

Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation

nmoc letter correspondence 12-19-96

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 see Attached Documents

Sample depth 9'

Sample date 5/26/94

Sample time _____

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 23.9

Field headspace(ppm) 648

TPH 4070 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 5/27/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

RESULTS TO ENCL R. 6/10/94 PLO

CLIENT: Amoco ENVIROTECH Inc. PIT NO: 40034
 5796 US HWY. 64, FARMINGTON, NM 87401 C.O.C. NO: 3698
 (505) 632-0615

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
 PAGE No: 1 of 1

LOCATION: NAME: Florance B WELL #: 1 PIT: blow
 QUAD/UNIT: E SEC: 22 TWP: 30N RNG: 9W BM: Nm CNTY: ST NM
 QTR/FOOTAGE: SW/4 NW/4 CONTRACTOR: Moss Excavation

DATE STARTED: 5/26/94
 DATE FINISHED: 5/26/94
 ENVIRONMENTAL SPECIALIST: CLG

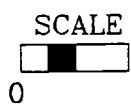
SOIL REMEDIATION: EXCAVATION APPROX. 18 FT. x 18 FT. x 9 FT. DEEP.
 DISPOSAL FACILITY: landfilled on-site CUBIC YARDAGE: 108
 LAND USE: range LEASE: Comm. 745

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 55 FEET S72E FROM WELLHEAD.
 DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
 NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:
excavation sides (except for south wall) and bottom are composed in sandstone
yellow brown + gray sand, slightly moist, cohesive, slight odor
bottom is wet

FIELD 418.1 CALCULATIONS

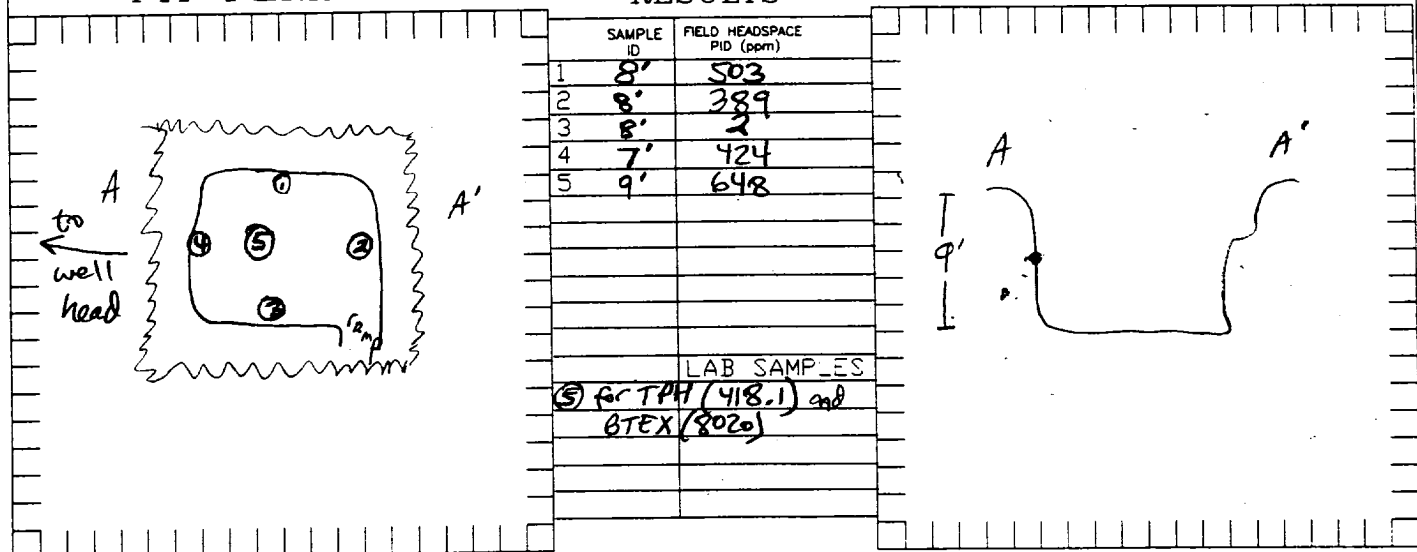
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL: FREON	DILUTION	READING	CALC. ppm



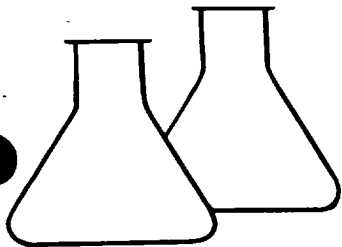
PIT PERIMETER

OVM RESULTS

PIT PROFILE



TRAVEL NOTES: CALLOUT: 5/26/94 ONSITE: 5/26/94



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 9'	Date Sampled:	05-26-94
Laboratory Number:	7535	Date Received:	05-31-94
Sample Matrix:	Soil	Date Analyzed:	06-06-94
Preservative:	Cool	Date Reported:	06-07-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	4070	25.0

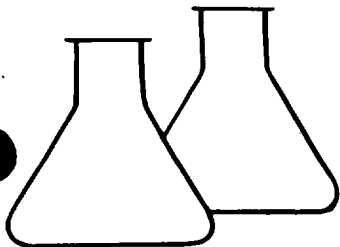
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Florance B 1 -- A0034 Blow Pit

Tom Am
Analyst

Margaret Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 9'	Date Reported:	06-08-94
Laboratory Number:	7535	Date Sampled:	05-26-94
Sample Matrix:	Soil	Date Received:	06-06-94
Preservative:	Cool	Date Extracted:	06-06-94
Condition:	Cool & Intact	Date Analyzed:	06-07-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	13.2
Toluene	569	32.9
Ethylbenzene	1030	13.2
p,m-Xylene	780	13.2
o-Xylene	21500	13.2

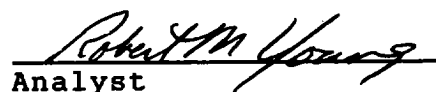
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %

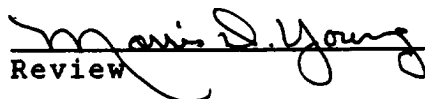
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Florance B1 Blow Pit A0034.


Analyst


Review

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>A0034</u> <u>9280</u> <i>nu</i> C.D.C. NO: <u>ANAMS</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: <u>FLORANCE B1</u>	LEASE: <u>Comm 745</u>	DATE STARTED: <u>4-25-96</u>
QUAD/UNIT: <u>E SEC: 22 TWP: 30 N</u>	RNG: <u>9 W</u> BM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>SW/NW</u>	CONTRACTOR: <u>MASS</u>	ENVIRONMENTAL SPECIALIST: <u>REW</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 108

LAND USE: RANGE

FIELD NOTES & REMARKS:

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

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

SOIL CONSISTS OF DRY SANDY SILT - NO CLAY, NO STICK.

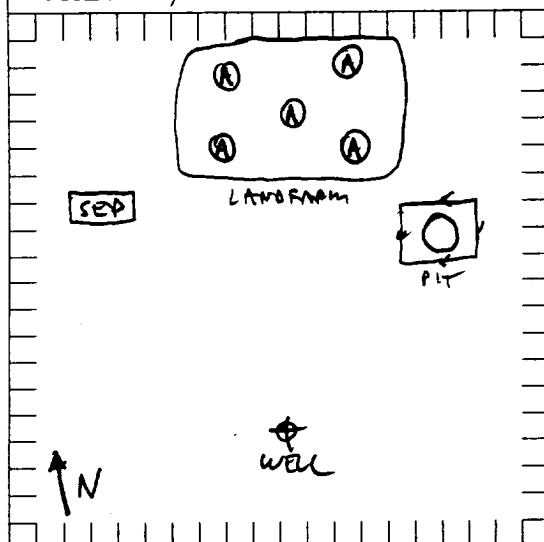
2ND SAMPLE EVENT CONDUCTED ON 7/18/01 BY NU. LANDFARM MOVED INTO PILE ON WEST END OF PERIMETER. COLLECTED 5 FT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

FIELD 418.1 CALCULATIONS

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

OPEN *nu*
CLOSED

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	5
COMP. B	0.5

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
COMP. A	8015	1040	11,900
COMP. B	TPH (8015)	1315	ND

SCALE
0 1 FT

TRAVEL NOTES: CALLOUT: _____ ONSITE: 4-25-96 1030



TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Blagg Engineering, Inc.

Project ID: Florance B1
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/14/96
Date Sampled: 04/25/96
Date Received: 04/25/96
Date Extracted: 05/07/96
Date Analyzed: 05/07/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3231	ND	21.3

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	96%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics,
State of Tennessee, Department of Environment and Conservation, Division
of Underground Storage Tanks.

Comments:


Analyst


Review



TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID: Florance B1
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/14/96
Date Sampled: 04/25/96
Date Received: 04/25/96
Date Extracted: 05/09/96
Date Analyzed: 05/09/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3231	11,900	394

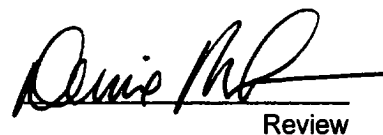
ND- Analyte not detected at the stated detection limit.

Quality Control: NA

Reference: EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments: Surrogate not recovered because sample dilution was required for analysis.


Analyst


Review

PROJECT MANAGER:
Analytica Lab I.D.:

Company:
Address:

Phone:
Fax:

Bill To:
Company:
Address:

CHAIN OF CUSTODY

PROJECT INFORMATION				Sample Receipt		Relinquished By:		Relinquished By:		WATER ANALYSES		METALS		COMMENTS										
Project #:	Project Name:	P. O. No.:	Shipped Via:	No. Containers:	Customer/Seal: Y / N / NA	Signature	Date:	Signature	Date:	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform		Solids: TDS / TSS / SS	Nutrients: NH4+ / NO2- / NO3- / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):		
COMP. A	4-25	1135	soil																					ELL107 6C L1 3
"	"	1120	"																					ELL107 6C N1E
"	"	1110	"																					FLORANCE SS
"	"	1040	"																					FLORANCE B1
"	"	1020	"																					E.E. ELL107 A1
"	"	0955	"																					E.E. ELL107 A3
"	"	0930	"																					ELL107 6C Y1
"	"	0915	"																					ELL107 6C C1

Project Information		Sample Receipt		Relinquished By:		Relinquished By:	
Proj. #:	Proj. Name:	No. Containers:	Customer/Seal: Y / N / NA	Signature	Date:	Signature	Date:
Amoco	Amoco			R. F. O'Neil	4-25-96	R. F. O'Neil	4-25-96
P. O. No.:				Company:		Company:	
Shipped Via:	DEL'D			Signature		Signature	
Required Turnaround Time (Prior Authorization Required for Rush)							

Received By:		Received By:	
Signature	Date:	Signature	Date:
BEI		BEI	1316
Company:		Company:	

Received By:		Received By:	
Signature	Date:	Signature	Date:
Company:		Company:	

PROJECT MANAGER:
Analytica Lab I.D.:

Company: BLA66

Address:

Phone:

Fax:

Bill To:

Company:

Address:

807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

LABORATORY

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

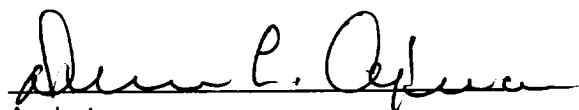
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Comp. B	Date Reported:	07-20-01
Laboratory Number:	20419	Date Sampled:	07-18-01
Chain of Custody No:	9280	Date Received:	07-18-01
Sample Matrix:	Soil	Date Extracted:	07-18-01
Preservative:	Cool	Date Analyzed:	07-20-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

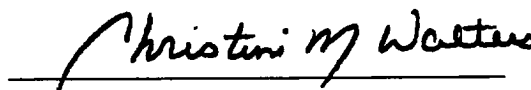
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Florance B #1 Stockpile 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

09280

Client / Project Name		Project Location		ANALYSIS / PARAMETERS										
BLAGG / BP		FLORENCE LEASE												
Sampler: NJV		Client No. 94034-010		Sample Matrix		No. of Containers		TPH (805)				Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix										
LF-1	7/18/01	0845	20416	SOIL					1	✓			ALL SAMPLES 5 PT. COMPOSITE & PRESERVED COOL	
LF-1	7/18/01	0945	20417	SOIL					1	✓			LANDFARM FLORENCE #44E	
comp. B	7/18/01	1045	20418	SOIL					1	✓			LANDFARM FLORENCE #101	
comp. B	7/18/01	1315	20419	SOIL					1	✓			STOCKPILE FLORENCE B #1	
LF-1	7/18/01	1415	20420	SOIL					1	✓			LANDFARM FLORENCE M #47X	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time				
[Signature]		7/18/01		1453		[Signature]		7-18-01		1453				
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		✓