

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
DEPUTY OIL & GAS INSPECTOR
JAN 13

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

A0036

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: OMLER A #2E
Well Name _____
Location: Unit or Qtr/Qtr Sec Nw/Ne (D) Sec 35 T 28N R 10W County San Juan
Pit Type: Separator ___ Dehydrator ___ Other fracture tank pit Blow
Land Type: BLM X, State ___ , Fee ___ , Other _____

Pit Location: Pit dimensions: length 13', width 13', depth 15'
(Attach diagram) Reference: wellhead X, other _____
Footage from reference: 35'
Direction from reference: 45° Degrees ___ East North X
of
X West South ___

RECEIVED
JUN 23 1994

Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water) **OIL CON. DIV. DIST. 3**
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) 0
No (0 points) _____

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) 0
Greater than 1000 feet (0 points) _____

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 5/31/94

Remediation Method: Excavation Approx. cubic yards 300
(Check all appropriate sections) Landfarmed Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No Yes _____ Depth _____

Final Pit: Closure Sampling: Sample location see Attached Documents
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 5' BGS

Sample date 5/31/94 Sample time 10:45

Sample Results

Benzene (ppm) ND

Total BTEX (ppm) 0.378

Field headspace (ppm) 129

TPH ND

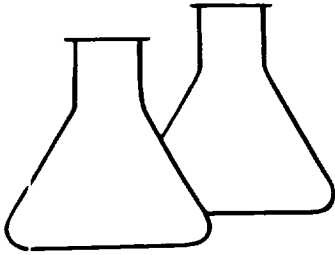
Ground Water Sample: Yes _____ No (If yes, attach sample results)

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

DATE 6/15/94
SIGNATURE B. D. Shaw

PRINTED NAME AND TITLE

Buddy D. Shaw
Environmental Coordinator



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

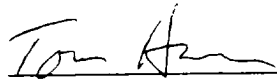
Client:	Amoco	Project #:	92140
Sample ID:	3 @ 5'	Date Sampled:	05-31-94
Laboratory Number:	7542	Date Received:	06-06-94
Sample Matrix:	Soil	Date Analyzed:	06-06-94
Preservative:	Cool	Date Reported:	06-07-94
Condition:	Cool and Intact	Analysis Needed:	TPH

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

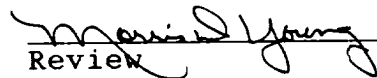
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

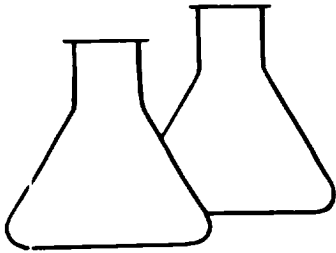
Comments: Omler A #2E -- A0036 Blow Pit



Analyst



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:	3 @ 5'	Date Reported:	06-08-94
Laboratory Number:	7542	Date Sampled:	05-31-94
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	13.3
Toluene	132	33.2
Ethylbenzene	24.5	13.3
p,m-Xylene	58	13.3
o-Xylene	163	13.3

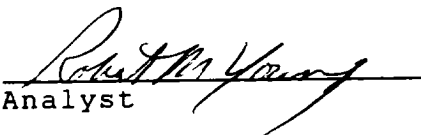
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	107 %
	Bromofluorobenzene	100 %

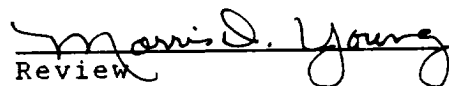
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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: Omler A #2E Blow Pit A0036.


Analyst


Review

Date Remediation Started: _____ Date Completed: 5/31/94

Remediation Method: Excavation Approx. cubic yards 100

(Check all appropriate sections) Landfarmed Insitu Bioremediation _____

Other _____

Remediation Location: Onsite Offsite: _____

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

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No Yes _____ Depth _____

Final Pit: Sample location see Attached Documents

Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 4' BGS

Sample date 5/31/94 Sample time 12:05

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.86

Field headspace(ppm) 743

TPH ND

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 6/15/94

SIGNATURE B. Shaw

PRINTED NAME AND TITLE

Buddy D. Shaw
Environmental Coordinator

results copied to Johnny 6/16/94

CLIENT: Amoco **ENVIROTECH Inc.** PIT NO: A0036
 5796 US HWY. 64, FARMINGTON, NM 87401 (505) 632-0615 C.O.C. NO: 3703

FIELD REPORT: **CLOSURE VERIFICATION** JOB No: 92140
 LOCATION: NAME: OMLER A# WELL #: ZE PIT: Production Tank PAGE No: 1 of 1
 QUAD/UNIT: D SEC: 35 TWP: 28N RNG: 10W BM: Nm CNTY: SS ST: Nm DATE STARTED: 5/31/94
 GTR/FOOTAGE: NW/4 CONTRACTOR: EPC DATE FINISHED: _____
 ENVIRONMENTAL SPECIALIST: Tom Hansen

SOIL REMEDIATION: EXCAVATION APPROX. 10 FT. x 22 FT. x 4 FT. DEEP.
 DISPOSAL FACILITY: Landfill on site CUBIC YARDAGE: ~100
 LAND USE: Rangeland LEASE: 92-077085

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 100 FEET S45°E 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: - sandy, clayey silt, Brown, moist
 - sample (5) @ 4' collected @ 12:05
 sent to lab for TPH (411.1) + BTEX (8020) analysis

FIELD 4181 CALCULATIONS

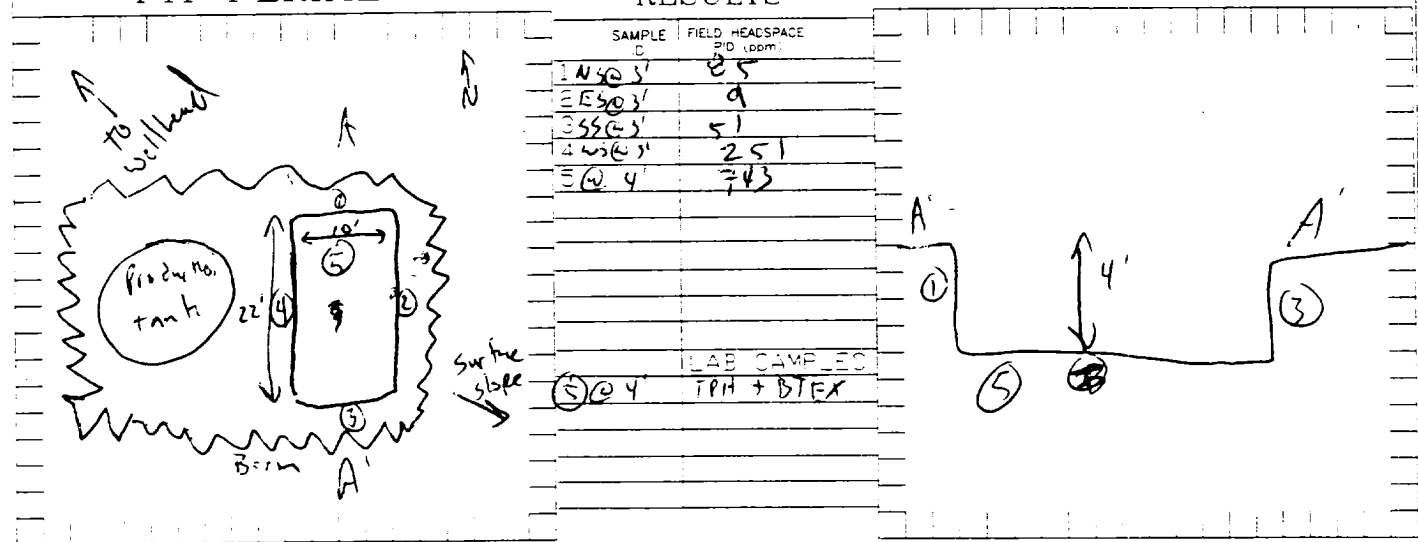
SAMPLE ID	LAB No:	WEIGHT (g)	ML. FREQN	DILUTION	READING	CALC. ppm



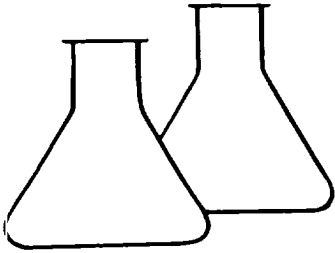
FEET
PIT PERIMETER

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RESULTS

PIT PROFILE



TRAVEL NOTES: CALLOUT: 5/31/94 ONSITE: 5/31/94



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

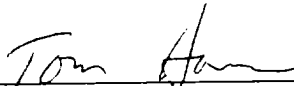
Client:	Amoco	Project #:	92140
Sample ID:	5 @ 4'	Date Sampled:	05-31-94
Laboratory Number:	7543	Date Received:	06-06-94
Sample Matrix:	Soil	Date Analyzed:	06-06-94
Preservative:	Cool	Date Reported:	06-07-94
Condition:	Cool and Intact	Analysis Needed:	TPH

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

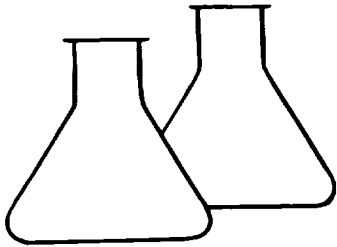
Comments: Omler A #2E -- A0036 Prod Pit



Analyst



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 @ 4'	Date Reported:	06-08-94
Laboratory Number:	7543	Date Sampled:	05-31-94
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	13.4
Toluene	120	33.6
Ethylbenzene	ND	13.4
p,m-Xylene	369	13.4
o-Xylene	371	13.4


SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	91 %
	Bromofluorobenzene	79 %

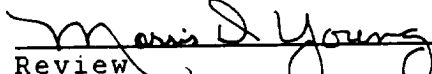
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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: Omler A #2E Production Tank Pit A0036.


Analyst


Review

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

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

PIT REMEDIATION AND CLOSURE REPORT

A0036

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: OmlER A #2E
Well Name

Location: Unit or Qtr/Qtr Sec Nw/nw (D) Sec 35 T 24N R 10w County San Juan

Pit Type: Separator Dehydrator Other

Land Type: BLM , State , Fee , Other

Pit Location: Pit dimensions: length 15', width 15', depth 20'
(Attach diagram) Reference: wellhead , other

Footage from reference: 65'

Direction from reference: 90° Degrees East North
 West ^{of} 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) 0
No (0 points)

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) 0
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 5/31/94

Remediation Method: Excavation Approx. cubic yards 500

(Check all appropriate sections) Landfarmed Insitu Bioremediation _____

Other _____

Remediation Location: Onsite Offsite _____

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

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No Yes _____ Depth _____

Final Pit: Sample location see Attached Documents

Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 17' BGS

Sample date 5/31/94 Sample time 10:15

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 34.06

Field headspace(ppm) 921

TPH 352 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 6/15/94

SIGNATURE B. Shaw

PRINTED NAME AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

results copied to Johnny 6/16/94

CLIENT: Amoco **ENVIROTECH Inc.** PIT NO: A0036
 5796 US HWY 64, FARMINGTON, NM 87401 (505) 632-0615 C.D.C. NO: 3703

FIELD REPORT: **CLOSURE VERIFICATION** JOB No: 92140
 PAGE No: 1 of 1

LOCATION: NAME: Omlet A WELL #: ZE PIT: SEP DATE STARTED: 5/31/94
 QUAD/UNIT: D SEC: 35 TWP: 25N RNG: 10W BM: Nm CNTY: SJ, ST: Nm DATE FINISHED: _____
 QTR/FOOTAGE: NW/1/4 CONTRACTOR: EPC ENVIRONMENTAL SPECIALIST: Tom Huxson

SOIL REMEDIATION: EXCAVATION APPROX. 15 FT. x 15 FT. x 20' FT. DEEP.
 DISPOSAL FACILITY: Landfill on site CUBIC YARDAGE: ~500
 LAND USE: Range LEASE: 82-077085

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 65 FEET S10°W FROM WELLHEAD.
 DEPTH TO GROUNDWATER: 2100' NEAREST WATER SOURCE: 21000' NEAREST SURFACE WATER: >1000'
 NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 ppm

SOIL AND EXCAVATION DESCRIPTION: - Brown silty sand, slightly moist
 - excavated to bedrock
 - sample ③ @ 17' collected @ 10:15
 Sent to Lab for TPH (416.1) + BTEX (4000) analysis

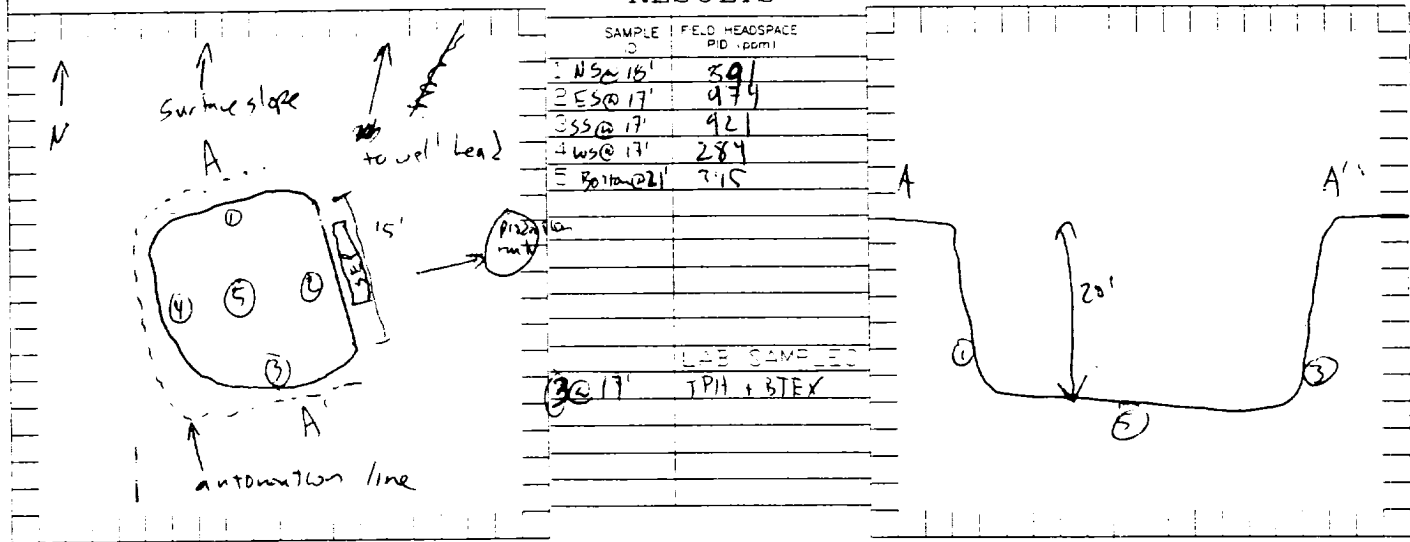
FIELD 4181 CALCULATIONS

SAMPLE ID.	LAB No.	WEIGHT (g)	ML. FREON DILUTION	READING	CALC. ppm

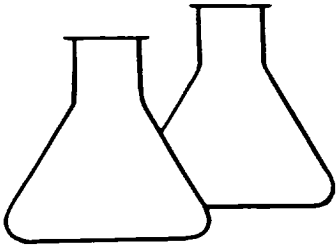


OVM
RESULTS

PIT PROFILE



TRAVEL NOTES: CALLOUT: 5/31/94 ONSITE: 5/31/94



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

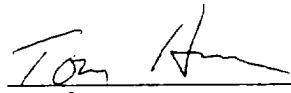
Client:	Amoco	Project #:	92140
Sample ID:	3 @ 17'	Date Sampled:	05-31-94
Laboratory Number:	7541	Date Received:	06-06-94
Sample Matrix:	Soil	Date Analyzed:	06-06-94
Preservative:	Cool	Date Reported:	06-07-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	352	25.0

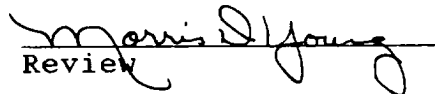
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

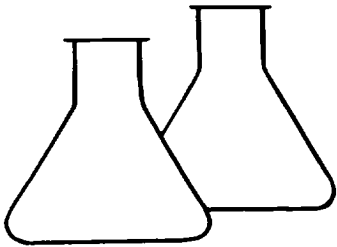
Comments: Omler A #2E -- A0036 Sep Pit



Analyst



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:	3 @ 17'	Date Reported:	06-08-94
Laboratory Number:	7541	Date Sampled:	05-31-94
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	5600	33.0
Ethylbenzene	1060	13.2
p,m-Xylene	4800	13.2
o-Xylene	22600	13.2

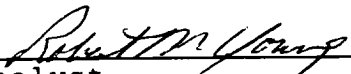
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	90 %
	Bromofluorobenzene	120 %

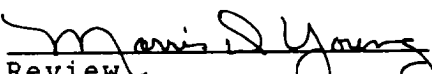
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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: Omler A #2E Sep Pit A0036


Analyst


Review