istrict I O. Box 1980, Hobbs, NM istrict II O. Drawer DD, Artesia, NM 88211 rict III 100 Rio Brazos Rd, Aztec, NM \$7410 State of New Mexico

Energy, Minerals and Natural Resources Department

Blow-risk non Vulneral 80053 Dehy-rkk non Vulneral 80053 SUBMIT 1 COPY TO APPROPRIATE Tank brain -OK DISTRICT OFFICE AND 1 COPY TO

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

SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Den ed 12/11/96 due to LF, Blow + Deling de weed due to BTEX + TPH	
Operator: Amoco Production Company Address: 200 Amoco Court, Farmingto Facility Or: 5CHWELDT FEGER A	Telephone: (505) - 326-9200
Pit Type: Separator Dehydrator Land Type: BLM, State, Fee	other BLOW, Other
(Attach diagram) Reference: wellhead > Footage from reference	nce: 56 Degrees East North of X 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) 0 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
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) One (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) Greater than 1000 feet (0 points) RANKING SCORE (TOTAL POINTS):

		/ / _ / .
Date Remediation St	arted:	Date Completed: 8/17/94
Remediation Method:	Excavation $\underline{\times}$	Approx. cubic yards 80
(Check all appropriate sections)	Landfarmed $\underline{\hspace{0.1cm} imes\hspace{0.1cm}}$	Insitu Bioremediation
	Other	
Remediation Location	onsiteoff	site
(ie. landfarmed onsite, name and location of offsite facility)		
General Description	Of Remedial Action	A// // 0.70
Excavation	on . Nosk Ass	ESSED. Now VILLERABLE ARTA.
Ground Water Encoun	tered: No 💢	Yes Depth
4.04		
	Sample location _	see Attached Documents
Final Pit: Closure Sampling:	Jump 10 100 100 100 100 100 100 100 100 100	
(if multiple samples, artach sample results	2	9'
and diagram of sample locations and depths)	Sample depth	
Todaciona and	Sample date 8/1	7/74
	Sample Results	
	Benzene (ppm)	
	Total BTEX(F	mmg
		pace(ppm) /29.3
	TPH 92 P	
		
Ground Water Sampl	e: Yes No	X (If yes, attach sample results)
I HEREBY CERTIFY TO MY KNOWLEDGE AN		N ABOVE IS TRUE AND COMPLETE TO THE BEST
-12/22	5/25/98 NV	DIIXCI.
	3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DATE SATI	PRINTE AND TI	

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	
FIELD REPOR	T: CLOSURE VERIFICATION PAGE No: _/_ of _/	
QUAD/UNIT: C SEC:	DATE STARTED: 8 17 94 DATE STARTED: 8 17 94 DATE STARTED: 8 17 94 DATE FINISHED: 8 17 94 DATE FINISHED: 8 17 94 DATE FINISHED: 8 17 94 DATE STARTED: 8 17	
DISPOSAL F LAND USE:	AVATION APPROX. 23 FT. x 19 FT. x 9 FT. DEEP. ACILITY: 4900 FRANCE CUBIC YARDAGE: 80 RANGE LEASE: 5F - 079319	
FIELD NOTES & REMAR DEPTH TO GROUNDWATER:	(S: PIT LOCATED AFPROXIMATELY 56 FEET 556W FROM WELLHEAD NEAREST SURFACE WATER 7/000 NEAREST SURFACE WATER 7/000 NMOCD TPH CLOSURE STD: 1000 PPM 6181. 5908 FORMATION: OCK/MV	
SOIL AND EXCAVATION 1	SCRIPTION: OK. YELL ORANGE TO BROWN JAHO, NON-COMESINE, SLIGHTLY MOIS FIRM NO APPARENT HC ODOR IN SIDEWALL DUM SAMPLE BOTTOM DUM JAMPLE CONSLIVED SLIGHT HC DOOR PUSSING	
FIELD 418.1 CALCULATIONS SAMPLE I.D. LAB NO: WEIGHT (9) ML. FREON DILUTION READING CALC. ppm 1045 5@9' 7PH-10 1074 20 1:1 46 92		
SCALE O FT PIT PERIM		
23' X 0 19' 0 5 X 3	SAMPLE FIELD HEADSPACE PID (ppni) 1 © 5' 7.9 2 © 6' 0.8 3 © 6' 1.7 4 © 6' 1.0 5 © 9' 179.3 LAB SAMPLES LAB SAMPLES	
TRAVEL NOTES: CALLOU	8/17/94 ONSITE: 8/17/94	

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Schwerdtfeger A LS #1A

Unit C, Sec. 36, T28N, R9W

Blow Pit

Otero Chacra/Blanco Mesa Verde

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit at 9 ft. below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- 1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. Well site located within the <u>non-vulnerable area</u> and is approximately 0.22 miles west of the nearest vulnerable area boundary (Blanco Canyon wash).

(Refer to <u>Fresno Canyon Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), provisional edition 1985, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).</u>

Based upon the information given, we conclude that the subsurface vertical and lateral contamination is limited and impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Project #:

Sample ID:

5 @ 9'

Date Analyzed: Date Reported: 8-17-94

Project Location: Laboratory Number: Schwerdtfeger A LS 1 A TPH-1074

Sample Matrix:

8-17-94 Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	92	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
5920	8160	27.45

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Blow Pit - B0053

Review

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:

Client:

Amoco

Project #:

Sample ID:

5 @ 9'

Date Analyzed:

8-17-94

Project Location:

Schwerdtfeger A LS 1 A

Date Reported:

8-17-94

Laboratory Number:

TPH-1074

Sample Matrix:

Soil

Sample Weight: Volume Freon:

10.00 grams 20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

46 mg/kg

TPH Result:

92.0 mg/kg

Reported TPH Result:

92 mg/kg

Actual Detection Limit:

10.0 mg/kg

Reported Detection Limit:

10 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff.

5920

8160

27.45

Comments:

Comments:

Blow Pit - B0053

B0053

pletrict I O. Box 1980, Hobbs, NM istrict II O. Drawer DD, Artesia, NM \$8211 rict III 100 Rio Brazos Rd, Aztoc, NM \$7410

State of New Hexico Energy, Minerals and Natural Resources Department

SUBHIT 1 COPY TO 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

Operator: Amoco Production Company	Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmingto	n, New Mexico 8/401
Facility Or: SCHWEROTFEGER F	A LS IA
Location: Unit or Qtr/Qtr Sec Pit Type: Separator Dehydrator	other
Land Type: BLM X, State, Fee	_, Other
(Attach diagram) Reference: wellhead	ch 32 , width 30 , depth 26) , other e: /40 / nce: 57 Degrees X East North X 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)
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) O No (0 points)
)istance 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) RANKING SCORE (TOTAL POINTS):
	KANKING BOURE (IDIAL POINTE)

asks Bamadiskian Ob	arted:	Date Completed: 8/18/94
Date Remediation Sta		Approx. cubic yards 925
Remediation Method: (Check all appropriate		·
(Check all appropriations)	Landfarmed X	Insitu Bioremediation
	Other	
	·	
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)		fsite
General Description	of Remedial Action	n:
Excavation	on. RISK ASSES	SED. Now VILLABLE AREA.
		·
	tered: No 🔀	Yes Depth
Ground Water Encoun	ingradi 110 X	
Final Pit: Closure Sampling: (if multiple samples,	Sample location _	
attach sample results	Sample depth	z z ′
and diagram of sample locations and depths)	Sample date 8/	/17/94 Sample time /230
	Sample Results	
	Benzene (ppm)	
•	Total BTEX(
	Field heads	pace(ppm) <u>803</u>
	TPH 3,460 /	
		X (If yes, attach sample results)
		N ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE SARAY 5	5/25/98 91V	ED NAME BUDG D. Shaw
STENATURE BAS	haw AND TI	TLE Environmental Consdinator

 $\gamma_{i} \sim \beta_{i}$

	T
BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. ND:
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: 1 of 1
QUAD/UNIT: C SEC: 36 TWP: 280 RNG: 9W PM: NM CNTY: ST STAM	DATE STARTED: 81794 DATE FINISHED: 817194 ENVIRONMENTAL
QTR/FOOTAGE: 796 FNL 1850 FWL CONTRACTOR: P. UELASQUEZ	SPECIALIST:NU
SOIL REMEDIATION: EXCAVATION APPROX. 32 FT. x 36 FT. x DISPOSAL FACILITY: LANDFARMED ON-SITE CUBIC YAR	FT. DEEP. DAGE: 9 Z5
LAND USE: RANGE LEASE: SF-0	19319
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 140 FEET A DEPTH TO GROUNDWATER STORES NEAREST WATER SCURCE: 71000 NEAREST SURFACE NMOCD TPH CLOSURE STOLES PPM FLEV. 5908	E WATER:
SOIL AND EXCAVATION DESCRIPTION: VARIOUS COLORED SAND RANGING FROM TO GREENISH GRAY (SAMPLES (3A) + (5)), MOIST, LOOSE TO FIRM, STRONG HC SAMPLE:	NON-COHESIVE SUCHTLY DOOR IN 3A OVER
FIELD 418.1 CALCULATIONS FIELD 418.1 CALCULATIONS SAMPLE I.D. LAB No: WEIGHT (g) mL. FREON DILUTION READING CAL (2A) @ 22' TPH-1076 10 ZO \D(1) [73 3] SCALE	C. ppm 460
O FT OVM PIT	PROFILE
PIT PERIMETER N RESULTS SAMPLE FIELD HEADSPACE DD 16 23' 1.2 28 22' 1.2 30 19' 1.0 48 20' 1.5 58 27' 48.0 30 APEA APEA TO DEHY NEAD SM LAB SAMPLES	SIMPLE SIMPLE
TRAVEL NOTES: CALLOUT: 8/17/94 ONSITE: 8/17/94	

Well Name:
Well Site location:
Pit Type:
Producing Formation:
Pit Category:
Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Schwerdtfeger A LS #1A
Unit C, Sec. 36, T28N, R9W
Dehydrator Pit
Otero Chacra/Blanco Mesa Verde
Non Vulnerable
> 1000 ft.
> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit at 26 ft. below grade and for safety concerns (underground piping and surface equipment).

No past or future threat to surface water or groundwater is likely based on the following considerations:

- 1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. Well site located within the <u>non-vulnerable area</u> and is approximately 0.22 miles west of the nearest vulnerable area boundary (Blanco Canyon wash).

(Refer to <u>Fresno Canyon Quadrangle</u>, <u>New Mexico - Rio Arriba County</u>, <u>7.5 Minute Series (Topographic)</u>, <u>provisional edition 1985</u>, (<u>vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division)</u>.

Based upon the information given, we conclude that the subsurface vertical and lateral contamination is limited and impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.

P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Sample ID:

3A @ 22'

Project #:

8-17-94

Project Location:

Schwerdtfeger A LS 1 A

Date Analyzed:
Date Reported:

8-17-94

Laboratory Number:

TPH-1076

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	3,500	100

ND = Not Detectable at stated detection limits.

OA/OC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
5920	8160	27.45

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Dehydrator Pit - B0053

Review

Analyst

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Schwerdtfeger A LS 1 A

Max Characters:

Client:

Amoco

Sample ID:

Project #:

3A @ 22'

Date Analyzed: Date Reported: 8-17-94 8-17-94

Project Location: Laboratory Number:

TPH-1076

Sample Matrix:

Soil

Sample Weight: Volume Freon:

10.00 grams 20.00 mL

Dilution Factor:

10 (unitless)

TPH Reading:

173 mg/kg

TPH Result:

3460.0 mg/kg

Reported TPH Result:

3500 mg/kg 100.0 mg/kg

Actual Detection Limit: Reported Detection Limit:

100 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff.

5920

8160

27.45

Comments:

Comments:

Dehydrator Pit - B0053

O. Box 1980, Hobbs, NM

ISTRICT II

O. Drawer DD, Artesis, NM 88211

TRICT III

AU Rio Brazos Rd, Aztoc, NM 87410

State of New Hexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO 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

onerstor:	Amoco Production Company	Telephone: (505) · 326-9200
Obetaror.		Now Marica 87401
Address:	200 Amoco Court, Farmington,	New Device 0.401
Wall Name	SCHWERDTFEGER A	
Location: Unit o	or Qtr/Qtr Sec Se	C36 T28N R 9W County SAN THAN
Pit Type: Separ	rator Dehydrator Of	ther PRODUCTION TANK
Land Type: BL	1 <u>X</u> , State, Fee	, Other
it Location: (Attach diagram)	Reference: wellhead X Footage from reference:	/3 , width _/3 , depth
Depth To Ground (Vertical distance contaminants to seating to water elevate ground water)	e from easonal	Less than 50 feet (20 points) C 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
domestic water 50	ction Area: et from a private ource, or; less than l other water sources)	Yes (20 points) No (0 points)
Distance To Su (Horizontal dista lakes, ponds, riv irrigation canals	nce to perennial ers, streams, creeks,	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) RANKING SCORE (TOTAL POINTS):
		NANATAU BOOM (TOTAL TOTAL)

		Date Completed: 8/17/94
Date Remediation St.		
demediation Method: Check all appropriate	Excavation X	Approx. cubic yards 18
dections)	Landfarmed X	Insitu Bioremediation
	Other	
emediation Location is. landfarmed onsite, ame and location of ffsite facility)		fsite
eneral Description	Of Remedial Action	n:
Excavatio	n	
Ground Water Encoun	tered: No X	Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location _	see Attached Documents
attach sample results	Sample depth	7'
and diagram of sample locations and depths)	Sample date Si	7(94 sample time <u>0950</u>
	Sample Results	
	Benzene (ppm)	
	Total BTEX(
		pace(ppm) 1.2
	TPH 124	<u>ppr</u>
Ground Water Sample	Yes No	(If yes, attach sample results)
I HEREBY CERTIFY THOSE MY KNOWLEDGE AND	1 DET TEE	N ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 8/19/99 SIGNATURE BAS	5/25/98 PRINTE	D NAME Buddy D. Shaw TLE Environmental Conrdinator

...

P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Sample ID:

5 @ 7'

Project #:

Date Analyzed:

8-17-94

Project Location:

Schwerdtfeger A LS 1 A

Date Reported:

8-17-94

Laboratory Number:

TPH-1073

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	120	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
5920	8160	27.45

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Production Tank Pit - B0053

Review

Analyst

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Schwerdtfeger A LS 1 A

Max Characters:

Client:

Amoco

Sample ID:

Project #:

5 @ 7'

Date Analyzed: Date Reported: 8-17-94 8-17-94

Project Location: Laboratory Number:

TPH-1073

Sample Matrix:

Soil

Sample Weight:

10.00 grams 20.00 mL

Volume Freon:

1 (unitless)

Dilution Factor: TPH Reading:

62 mg/kg

TPH Result:

124.0 mg/kg

Reported TPH Result:

120 mg/kg

Actual Detection Limit:

10.0 mg/kg

Reported Detection Limit:

10 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff.

5920

8160

27.45

Comments:

Comments:

Production Tank Pit - B0053

O. Box 1980, Hobbs, NM
ISTRICT II
O. Drawer DD, Artesia, NM 88211
IRIGT III
OO Rio Brazos Rd, Aztoc, NM 87410

State of New Hexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO 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

Operator:		Telephone: (505) - 326-9200			
Address:	200 Amoco Court, Farmington,				
Wall Name	SCHWERDTFEEER A				
Location: Unit	or Qtr/Qtr Sec Se	1036 T282 R 9W County SAN JUAN			
Pit Type: Separ	Pit Type: Separator X Dehydrator Other				
Land Type: BL	M_X, State, Fee	, Other			
it Location: (Attach diagram)	Reference: wellhead X Footage from reference:	z5', width z5', depth /Z', other 100' e: 87 Degrees East North of \text{Y}			
Depth To Groun (Vertical distance contaminants to s high water elevate ground water)	ce from seasonal	Less than 50 feet (20 points) C 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)			
domestic water so	ection Area: set from a private ource, or; less than ll other water sources)	Yes (20 points) No (0 points)			
Distance To Su (Horizontal distantal lakes, ponds, rivirrigation canals	ance to perennial vers, streams, creeks,	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) RANKING SCORE (TOTAL POINTS):			
i	•				

		Date Completed: 8/ /94
Date Remediation St.		
Remediation Method: (Check all appropriate		Approx. cubic yards185
dections)	Landfarmed X	Insitu Bioremediation
	Other	
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)		site
General Description	Of Remedial Action	
Excavation	on	
Ground Water Encoun	itered: No <u>×</u>	Yes Depth
Final Pit: Closure Sampling:	Sample location _	see Attached Documents
(if multiple samples, attach sample results	Sample depth	7'
and diagram of sample locations and depths)	Sample date 8/17	94 Sample time 1/30
	Sample Results	_
	Benzene (ppm)	C 004
	Total BTEX(p	
		ace(ppm) zzz.9
	трн <u>56 г</u>	<u>ppm</u>
		(If yes, attach sample results)
I HEREBY CERTIFY TO	HAT THE INFORMATION D BELIEF	ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 8/ /94	PRINTED	
SIGNATURE (2)	haw AND TIT	THE ENVIRONMENTAL CORRELINATOR

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80053</u> C.O.C. NO:
FIELD REPORT	T: CLOSURE VERIFICATION	PAGE No: of
QUAD/UNIT: C SEC:30	OTFEGER A LSWELL #: IA PIT: SEP 6 TWP: 282 RNG: 9W PM: NM CNTY: ST ST:NM 1850 FWL CONTRACTOR: P. VELASQUEZ	DATE STARTED: 8/11/94 DATE FINISHED: 8/17/94 ENVIRONMENTAL SPECIALIST: NV
DISPOSAL FA	CILITY: LANDFARMED ON-SITE CUBIC YAR. RAJGE LEASE: 55-6	DAGE:
FIELD NOTES & REMARK DEPTH TO GROUNDWATER: 400	S: PIT LOCATED APPROXIMATELY 100 FEET S NEAREST WATER SCURCE: >1000 NEAREST SURFACE NMOCD TPH CLOSURE STD: 1000 PPM ELEU. 5908	87W FROM WELLHEAD. E WATER: >1000 FORMATION: OCK/MV
SOIL AND EXCAVATION DE	SCRIPTION: OK, YELL. ORANGE TO BROWN SEND, NON- MOIST, FIRM, SLIGHT HC ODOR IN E	-COHESIVE, TIGHTLY AST SIDEWALL OUT SAMPLE.
SCALE OFT	грн -1075 10 20 1:1 28 1	56
PIT PERIME	RESULTS SAMPLE FIELD HEADSPACE PID (ppni) 1 @ 10'	PROFILE
TRAVEL NOTES: CALLOUT:	8/17/94 ONSITE: 8/17/94	

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Project #:

Sample ID:

2 @ 7' Schwerdtfeger A LS 1 A Date Analyzed: Date Reported:

8-17-94

Project Location: Laboratory Number:

TPH-1075

Sample Matrix:

8-17-94 Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	56	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
5920	8160	27.45

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - B0053

Review



AROMATIC VOLATILE ORGANICS

Attn:

Nelson Velez

Date:

8/18/94

Company: Blagg Engineering

Lab ID:

1830

Address:

P.O. Box 87

Sample ID:

2550

City, State: Bloomfield, NM 87413

Job No.

2-1000

Schwerdtfeger A LS 1A

Project Name: **Project Location:** Sampled by:

2 @ 7' - Sep. Pit

NV

Date: Date:

8/17/94 8/18/94 Time:

11:30

Analyzed by: Sample Matrix: DLA Soil

Aromatic Volatile Organics

Component	* *Measured Concentration ug/kg
Benzene	3.5
Toluene	10.3
Ethylbenzene	0.1
m,p-Xylene	13.1
m,p-Xylene o-Xylene	4.0
	TOTAL 30.9 ug/kg

ND - Not Detectable

** - Method Detection Limit, 2 ug/kg

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:

Date:

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632--1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:

Client:

Amoco

Sample ID:

Project #:

2 @ 7'

Date Analyzed: Date Reported:

8-17-94

Project Location: Laboratory Number: Schwerdtfeger A LS 1 A TPH-1075

Sample Matrix:

8-17-94

Soil

Sample Weight:

10.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

28 mg/kg

TPH Result:

56.0 mg/kg

Reported TPH Result:

56 mg/kg

Actual Detection Limit:

10.0 mg/kg

Reported Detection Limit:

10 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff.

5920

8160

27.45

Comments:

Comments:

Separator Pit - B0053

Nº 1830

CHAIN OF CUS. JDY RECORD

Date: 5/17/34

4

Page / of /

657 W. Maple • P. O. Box 2606 • Farmington, NM 87499 LAB: (505) 325-5667 • FAX: (505) 325-6256

TECHNOLOGIES LIMITED

								80053
Purchase	Purchase Order No.:) ::		Name	NECTAL 150	ere	Title / G	
	Name		TA T 2	Company	Ruja			
O DICE ND	Company MACC ENCARERANCE	ارچ Dept.	POG:	Mailing Address	388 - (11) E			
	Address P. O. Ko X 20		RE	City, State, Zip				
	City, State, Zip St. Ann Tall Office The	3418	1	Telephone No.	- 739	1 66//	Telefax No.	
Special In	É				AN	ANALYSIS REQUESTED	ESTED	
	SCHOOL BUTTERER H	W 57	to ye					
Sampler:	Thos Vill		Numbe Numbe Contair					
	SAMPLE IDENTIFICATION SAMPLE SAM	DATE/TIME COMPOSITE/ SAMPLED GRAB	PRESERVATIVES	2.8				Remarks (matrix)
(S)	17 - 5EP. PIT 111/14	130 CRAP	1		2550	0531-		
discilled	The second secon	La A Si Comitto Contraction Co	6.02.0					11/1
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Relinquished by:	hed by:	Date/Time	Rec	Received by:			Date/Time	
Relinquished by:	hed by:	Date/Time	Rec	Received by:			Date/Time	
Method of	Method of Shipment:		Rush	-	5 Working Days	10 Working Days	Sampling Location:	
Authorized by:		Date						
	(Client Signature Must Accompany Request)							
	Dis	Distribution: White - On Site	Yellow - LAB	Pink - Sampler Gold	Goldenrod - Client			

BLAGG ENGINEERING, INC. CLIENT: AMOCO LOCATION NO: 80053 P.O. BOX 87, BLOOMFIELD, NM 87413 C.O.C. NO: 5572 (505) 632-1199FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION DATE STARTED: 11.20 97 LOCATION: NAME: SCHWERDTFEGER A LSWELL #: LA PITS: BLDW, SEP, DEHY, PROD. DATE FINISHED: QUAD/UNIT: C SEC: 36 TWP: 28N RNG: 910 PM: NM CNTY: \$3 ST: NM ENVIRONMENTAL /EP QTP/FOOTAGE 790'FNL 1850 FWL CONTRACTOR: b 42 SOIL REMEDIATION: APPROX. CUBIC YARDAGE: /, 2 08 REMEDIATION SYSTEM: LANDFARM LIFT DEPTH (ft): NA RANGE LAND USE: FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: <100' NEAREST WATER SCIURCE: >1000 NEAREST SURFACE WATER: >1000 NMOCD PANEING SCORE: 10 NMOCD TPH CLOSURE STD: /000 PPM SOIL IS A MED YELLOW W/LT BROWN, BILTY SAND. NO STAIN OR HE ODOR TOOK SPT. COMP. FOR LAS ANMYSIS. NO ACTUAL LANDFARM DESERVED ON WELL SITE. FIELD 418.1 CALCULATIONS WEIGHT (g) mL. FREON DILUTION READING CALC. ppm SAMP. TIME SAMPLE I.D. LAB No: SKETCH/SAMPLE LOCATIONS FRED MI SEP'S PROD OVM RESULTS LAB SAMPLES

		Pri SEP, S	TANK
		2	3
	4	WELL HEAD (A)	6
	M		
		H.H. DEHY-PIT.	
'		YORKS	

OVM	RESULIS				
SAMPLE	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF - I	0.0	LF - 1	8015	1315	15.6
			 		
			 	-	
				<u> </u>	

SCALE	
0	F

TRAVEL NOTES: CALLOUT: N/A .

ONSITE: 11.20 97 1315



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	11-25-97
Laboratory Number:	C547	Date Sampled:	11-20-97
Chain of Custody No:	5572	Date Received:	11-21-97
Sample Matrix:	Soil	Date Extracted:	11-21-97
Preservative:	Cool	Date Analyzed:	11-24-97
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)	15.6	0.1
Total Petroleum Hydrocarbons	15.6	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:

Schwerdtfeger A LS # 1A Landfarm. 5 Pt. Composite.

Deen P. Cejeccu

Stacy W Sendler