<u>District I</u>
P.O. Box 1980, Hobbs, NM
<u>District II</u>
P.O. Drawer DD, Artesia, NM 88211

Energy, Minerals and Natural Resources Repartment

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

* B0042

Strict III

/ Rio Brazos Rd, Azzec, NM \$7410

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

	Moral Letter 13	11/16 LF 05 Dehy,
Operator:	_	Telephone: (505) - 326-9200
Address:	200 Amoco Court, Farmingt	ton, New Mexico 87401
	SCHWERST FEEER	
Location: Uni	t or Qtr/Qtr Sec	Sec 36 T28N R 9 W County SAN JUAN
Pit Type: Ser	parator Dehydrator	Other 800
Land Type: E	SLM_X_, State, Fee _	, Other
Pit Location: Attach diagram		th <u>lo'</u> , width <u>lo'</u> , depth <u>lo'</u>
	Footage from referenc	
		nce: 80 Degrees East North <u>k</u>
		of
Depth To Grou (Vertical distant		Less than 50 feet (20 points) 50 feet to 99 feet (10 points)
contaminants to high water elev- ground water)	seasonal	Greater than 100 feet (0 Points) O
domestic water	section Area: feet from a private source, or; less than all other water sources)	Yes (20 points) No (0 points)
Horizontal dis	Surface Water: tance to perennial ivers, streams, creeks, ls 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:_	8-8-14
Remediation Method:	Excavation X		_
(Check all appropriate sections)	Landfarmed X		
	Other		
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)		ite	
General Description	Of Remedial Action:		
Excavation	on	· · · · · · · · · · · · · · · · · · ·	
Ground Water Encoun	tered: No X	Yes Depth	
Final Pit: Sample location see Attached Documents Closure Sampling: (if multiple samples,			
attach sample results and diagram of sample	Sample depth	(
locations and depths)		3-94 Sample time	
	Sample Results		
	Benzene(ppm)		
	Total BTEX(ppm		
	Field headspac	e(ppm) 3.2 PPn	
	трн 24 ррм		
Ground Water Sample		(If yes, attach sample	results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		BOVE IS TRUE AND COMPLET	FE TO THE BEST
DATE 8/9/94	Λ	RIINC	1
SIGNATURE BASI	PRINTED N AND TITLE	IAME Buddy D.S.	PORdinator

Date Remediation Sta	irted:	Date Completed: 8-8-44
emediation Method:		
(Check all appropriate	Landfarmed X	Insitu Bioremediation
sections)	Other	
	Julier	
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	onsite X Off	fsite
General Description	Of Remedial Action	A. Shiring & Markey and American Americ
Excavatio	n	And the first time of the second seco
	<u> </u>	
		/
Ground Water Encoun	tered. No V	Yes Depth
Ground water Encoun	110 1	
Final Pit: Closure Sampling: (if multiple samples,	Sample location _	see Attached Documents
attach sample results and diagram of sample		11'
locations and depths)	Sample date 8	-8-94 Sample time
	Sample Results	
	Benzene(ppm)	
. •	Total BTEX(p	
		ace(ppm) 3.2 ppn
	трн 24 рр	
dis		
Ground Water Sample	Yes No _	χ (If yes, attach sample results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 3/9/94	<i>J</i> .	RIIN SI.
DATE 3/9/94 SIGNATURE BASI	PRINTEL AND TIT	NAME Buddy D. Shaw TLE Environmental Coordinator

and the second of the control of the second of the second

RESTURS TO BOD MI COT 8-9-94 FED LOCATION NO: BOOKE BLAGG ENGINEERING, INC. CLIENT: AMOCO P.O. BOX 87, BLOOMFIELD, NM 87413 C.O.C. NO: _____ (505) 632-1199FIELD REPORT: PIT CLOSURE VERIFICATION LOCATION: NAME: SCHWERSTFEGER A WELL #: PIT: BLOW DATE STARTED: DATE FINISHED: 8-8-94 QUAD/UNIT: C SEC: 36 TWP: 28 N RNG: 9 W BM: NM CNTY: SJ ST: NM ENVIRONMENTAL OTR/FOOTAGE: NE/4, NW/4 CONTRACTOR: PAUL + SONS R ES SPECIALIST: __ SOIL REMEDIATION: EXCAVATION APPROX. ___LO__ FT. x ___LO__ FT. x ___LO__ FT. DEEP. DISPOSAL FACILITY: ON-SITE L.F. CUBIC YARDAGE: 30 LAND USE: RANGE _____ LEASE: ____ FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 95 FEET N800 FROM WELLHEAD. DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000' NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: 5000 PPM SOIL AND EXCAVATION DESCRIPTION: BROWN, MOIST, SAND - POORCY GRASEN. NO ODOR, NO STAIN FIELD 418.1 CALCULATIONS |WEIGHT (g) |mL. FREON | DILUTION | READING | CALC. ppm SAMPLE I.D. LAB No: SCALE 0 5 10FT OVM PIT PERIMETER PIT PROFILE RESULTS SAMPLE FIELD HEADSPACE 1 NSC5 2 ESC 7 1.6 355e 6' 2.0 4 WS @ 6' 2.0 5CB @ 11 LAB SAMPLES 418.1 # SHAFACE GRADION TRAVEL NOTES: 1230 CALLOUT: 8.8.94 8.8.94 ONSITE:

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:

CB @ 11'

Date Analyzed:

8 - 09 - 94

Project Location:

Schwerdtfeger A 1

Date Reported:

8-09-94

Laboratory Number:

TPH-1060

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	24	20

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 - B0042

nalvst

Review

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

Field TPH-Worksheet

Max Characters:

Project Location:

Client:

Amoco

Sample ID:

CB @ 11'

TPH-1060

Schwerdtfeger A 1

Laboratory Number:

o Project #:

Date Analyzed: Date Reported:

8-09-94 8-09-94

Sample Matrix:

Soil

Sample Weight: Volume Freon:

5.00 grams 20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

6 mg/kg

TPH Result:

24.0 mg/kg

Reported TPH Result:

24 mg/kg

Actual Detection Limit:

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg % Diff.

5920

8160

27.45

Comments:

Comments:

Blow Pit - B0042

District I
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J Rio Brazos Rd, Aztec, NM 87410

State of New Mexico 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: Amoco Production Company	Telephone: (505) - 326-9200		
Address: 200 Amoco Court, Farmington	, New Mexico 87401		
Facility Or: SCHWERDTFE6ER A Well Name	•		
Location: Unit or Qtr/Qtr Sec Se	ec 36 T 28N R 9 W County SAN JUAN		
Pit Type: Separator Dehydrator O	ther prod. Mutc		
Land Type: BLM X, State, Fee			
·	, other		
Footage from reference:			
Direction from reference	e: 45° Degrees X East North X		
	West South		
Depth To Ground Water: (Vertical distance from 50 feet (20 points) contaminants to seasonal Greater than 100 feet (0 Points) high water elevation of ground water)			
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)			
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:	8-8-94
	Excavation X		
(Check all appropriate sections)	Landfarmed X	Insitu Bioremediation _	
	Other	· · · · · · · · · · · · · · · · · · ·	
	<u></u>		
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite <u>X</u> Off	site	-
General Description	Of Remedial Action		
Excavati	on	· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·	
Ground Water Encoun	tered: No <u>X</u>	Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location	see Attached Documents	
attach sample results and diagram of sample	Sample depth	8'	
locations and depths)		8-99 Sample time	
	Sample Results		
	Benzene(ppm)		
	Total BTEX(pp		
		ce(ppm)	
	трн <u>180</u> РРи		
	<u></u>	_	
Ground Water Sample	: Yes No <u>X</u>	(If yes, attach sample :	results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		ABOVE IS TRUE AND COMPLET	E TO THE BEST
DATE 8/4/94	Λ	RIINCI	. 1
SIGNATURE BASI	PRINTED AND TITL	NAME Buddy D. SI E Environmental C	NAW, pordinator

Date Remediation St	arted:	Date Completed: 8-8-94
emediation Method:	•	Approx. cubic yards
(Check all appropriate sections)	Landfarmed X	Insitu Bioremediation
,		
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite X	Offsite
General Description	Of Remedial Act:	ion:
Excavation	on	The second secon
- X	<u> </u>	<u> </u>
	J. M 1.15	
		.,
Ground Water Encoun	tered: No X	Yes Depth
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location Sample depth	see Attached Documents
locations and depths)	Sample date	8.8-94 Sample time
	Sample Results	
	•	om)
.>	Total BTEX	
		space(ppm) O
	тен 180	
Ground Water Sample	Yes No	\times (If yes, attach sample results)
I HEREBY CERTIFY THOSE AND		ON ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 8/4/99 SIGNATURE BAS	./	TED NAME Buddy D. Shaw FITLE Environmental Coordinator
A C	PRINT	LED NAME MAGGA HI MANN I

...**.**∵

RETUTE TO BUS MI COY 8-9-94 PEO BLAGG ENGINEERING, INC. LOCATION NO: 80042 CLIENT: AMOLO P.O. BOX 87, BLOOMFIELD, NM 87413 C.D.C. ND: _____ (505) 632-1199FIELD REPORT: PIT CLOSURE VERIFICATION LOCATION: NAME: SCHWEEDTFEDER A WELL #: | PIT: PROD DATE STARTED: DATE FINISHED: 8-8-94 QUAD/UNIT: C SEC: 36 TWP: 28 N RNG: 9 W BM: N'M CNTY: SJ ST:NM ENVIRONMENTAL FES QTR/FOOTAGE: NE/4, NW/4 CONTRACTOR: PAUL + SONS SOIL REMEDIATION: EXCAVATION APPROX. 6 FT. x 9 FT. x 7 FT. DEEP. DISPOSAL FACILITY: ON- SITE L.F. CUBIC YARDAGE: 12 LAND USE: FANGE LEASE: FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY ______ \$8 FEET _NYSE FROM WELLHEAD. DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000 NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM SOIL AND EXCAVATION DESCRIPTION: MOUT, BFOWN -> YELLOW - BFOWN SIGT SAND WITH SAMSTONE MIKED - SAMSTONE BOTTOM. NO ODGE - NO STAIN, FIELD 418.1 CALCULATIONS WEIGHT (q) mL. FREON DILUTION READING CALC. ppm SAMPLE I.D. LAB No: SCALE . 0 5 10FT OVM PIT PROFILE PIT PERIMETER RESULTS SAMPLE FIELD HEADSPACE ID PID (ppm) 1 NS@4 3wse 4 4 (30 8' LAB SAMPLES 4(8.1

TRAVEL NOTES: CALLOUT: 8.8-99 ONSITE: 88.99 [300

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:

CB @ 8'

Project #:

Schwerdtfeger A1

Date Analyzed: Date Reported: 8-09-94

Project Location: Laboratory Number:

TPH-1061

8-09-94

Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	180	20

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 - B0042

Review

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

Field TPH-Worksheet

Client: Amoco Project #:

Sample ID: CB @ 8' Date Analyzed: 8-09-94 Project Location: Schwerdtfeger A 1 Date Reported: 8-09-94

Laboratory Number: TPH-1061 Sample Matrix: Soil

Sample Weight: 5.00 grams Volume Freon: 20.00 mL

Dilution Factor: 1 (unitless) TPH Reading: 44 mg/kg

TPH Result: 176.0 mg/kg
Reported TPH Result: 180 mg/kg
Actual Detection Limit: 20.0 mg/kg
Reported Detection Limit: 20 mg/kg

QA/QC: Original Duplicate %

TPH mg/kg TPH mg/kg Diff.

----5920 8160 27.45

Comments: Production Tank Pit - B0042

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

State of New Mexico 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:	Amoco Production Company	Telephone: (505) - 326-9200
	200 Amoco Court, Farmington	
Facility Or:	SCHWERDTFEGER Al	
	or Otr/Otr Sec	ec36 TERN R 9W County SAN THAN
Location: Unit	or other see	Other
Land Type: BL	$M \times$, State, Fee	_, Other
Pit Location: (Attach diagram)	Reference: wellhead X	h_ 16, width (8, depth []
Depth To Ground (Vertical distance contaminants to high water elevators)	ce from seasonal	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
domestic water s	ection Area: eet from a private ource, or; less than ll other water sources)	Yes (20 points) No (0 points)
Distance To St (Horizontal dist lakes, ponds, ri irrigation canal	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):
FI .		

Date Remediation St	arted:	Date Completed:	8/9/94
Remediation Method:		Approx. cubic yards	
(Check all appropriate sections)	Landfarmed X	Insitu Bioremediation	
	,		
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	\mathbf{n} : Onsite \times Of	fsite	•
General Description	Of Remedial Action	a:	
Excavation	on		
Ground Water Encoun	tered: No 🔀	Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location _	see Attached Documents	
attach sample results and diagram of sample	Sample depth	11	
locations and depths)	Sample date 88	Sample time	1318
	Sample Results		
	Benzene(ppm)	0.004	
	Total BTEX(p)	pm) <u>6.890</u>	
	Field headsp	ace(ppm)	
	TPH 1200 PP	<u>Pm</u>	
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			
SIGNATURE BAShaw PRINTED NAME BUDGE COORDINATOR			
SIGNATURE SSIGNATURE	TAW AND TIT	LE Environmental	Coordinator

mediation Method: Excavation X Approx. cubic yards /s check all appropriate Landfarmed X Insitu Bioremediation Other Remediation Location: Onsite X Offsite (le. landfarmed onsite, name and location of offsite facility) General Description Of Remedial Action: Excavation 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 depth Sample depth Sample date 88944 Sample time 1318 Sample Results Benzene(ppm) OOUL Total BTEX(ppm) 6.890 Field headspace(ppm) 1016	Date Remediation St	arted:	Date Completed: 8/9/94
Check all appropriate Canddarmed Canddarmed Canddarmed Canddarmed Canddarmed Canddarmed onsite Canddarmed Cand			Approx. cubic yards 75
Other Remediation Location: Onsite X Offsite (is. landfarmed onsite, name and location of offsite facility) General Description Of Remedial Action: Excavation Excavation Sample Depth Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth	,check all appropriate		
Remediation Location: Onsite X offsite (ie. landfarmed onsite, name and location of offsite facility) General Description Of Remedial Action: Excavation Tround Water Encountered: No X 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 date 88944 Sample time 1318 Sample Results Benzene(ppm) 0.004 Total BTEX(ppm) 6.890 Field headspace(ppm) 1016 TPH 1200 PPM		•	
Closure Sampling: Closure Sample Sample depth Closure sample Sample depth Closure sample Sample depth Closure sample Closure Closure sample Closure Closure sample Clos			
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample date	(ie. landfarmed onsite, name and location of offsite facility)		<u> </u>
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth	General Description	Of Remedial Actio	n:
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth Sample depth Sample depth Sample date 88994 Sample time 1318 Sample Results Benzene(ppm) 0.004 Total BTEX(ppm) 6.890 Field headspace(ppm) 1016 TPH 1200 PPM	Excavation	on	
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth Sample depth Sample depth Sample date 88994 Sample time 1318 Sample Results Benzene(ppm) 0.004 Total BTEX(ppm) 6.890 Field headspace(ppm) 1016 TPH 1200 PPM			
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth Sample depth Sample depth Sample date 88994 Sample time 1318 Sample Results Benzene(ppm) 0.004 Total BTEX(ppm) 6.890 Field headspace(ppm) 1016 TPH 1200 PPM			
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth Sample depth Sample depth Sample date 88994 Sample time 1318 Sample Results Benzene(ppm) 0.004 Total BTEX(ppm) 6.890 Field headspace(ppm) 1016 TPH 1200 PPM			
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth Sample depth Sample date 88994 Sample time 1318 Sample Results Benzene(ppm) 0.004 Total BTEX(ppm) 6.890 Field headspace(ppm) 1016 TPH 1200 PPM			
Sample Total Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth Sa	Ground Water Encoun	itered: No X	Yes Depth
Sample depth Sample depth	Closure Sampling:		
Sample date 8894 Sample time 1318 Sample Results Benzene(ppm) 0.004 Total BTEX(ppm) 6.890 Field headspace(ppm) 1016 TPH 1200 PPM	attach sample results and diagram of sample	Sample depth	11
Sample Results Benzene(ppm) 0.004 Total BTEX(ppm) 6.890 Field headspace(ppm) 1016 TPH 1200 PPM	locations and depths)	Sample date 8	894 Sample time 1318
Benzene(ppm) 0.004 Total BTEX(ppm) 6.890 Field headspace(ppm) 1016 TPH 1200 PPM			
Field headspace(ppm) 1016		-	0.004
Field headspace(ppm) 1016		Total BTEX(opm) <u>6.890</u>
трн <u>1200 рет</u>			_
Ground Water Sample: Yes No X (If yes, attach sample results)	Ground Water Sample		
THEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST F MY KNOWLEDGE AND BELIEF			N ABOVE IS TRUE AND COMPLETE TO THE BEST
112/2	· · · · · · · · · · · · · · · · · · ·		DIINCI
SIGNATURE BASHAW PRINTED NAME BUDD Shaw AND TITLE ENVIRONMENTAL COORDINATOR	\mathcal{O} Λ (PRINTE AND ME	DINAME Duddy D. Shaw

- ...

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 FIELD REPORT: CLOSURE VERIFICATION PAGE NO: of
FIFID REPORT: CLOSURE VERIFICATION PAGE No: of
TILLD TULL OUT. CLOCOTEL LETTERS
LOCATION: NAME: 7 CHWEROTEGER WELL, #: A (PIT: 5 F. I DATE STARTED: 8/8/94 QUAD/UNIT: C SEC: 36 TWP: 280 RNG: 9 W PM: NW CNTY: SJ ST: NW QTR/FOOTAGE: NEIL NW/4 CONTRACTOR: P. VELASQUEZ DATE STARTED: 8/8/94 DATE STAR
SOIL REMEDIATION: EXCAVATION APPROX. 16 FT. x 18 FT. x 1 FT. DEEP. DISPOSAL FACILITY: LANDFAMED ON - SITE CUBIC YARDAGE: 75 LAND USE: RANGE LEASE: NONE ON SIGN
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 56 FEET 565 FROM WELLHEAD. DEPTH TO GROUNDWATER: 2100 NEAREST WATER SOURCE: 21068 NEAREST SURFACE WATER: 21000
NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: 5000 PPM FORMATION: 0/
DK. YELL. BROWN SILTY SAND, NON - COHESIVE, SLIGHTLY MOIST FIRM TO DENSE, STROWG HC ODOR IN BOTTOM OUM SAMPLE. BATTOM SAMPLE OLIVE GRAY IN COLOR. FIELD 418.1 CALCULATIONS
SAMPLE I.D. LAB No: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm
SC17 TPH-1057 5 26 1:1 298 1192
SCALE
O FT PERIMETER N OVM PIT PROFILE
SAMPLE FIELD HEADSPACE PID (ppm) 10 8

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 @ 11'

Date Analyzed:

8-08-94

Project Location:

Schwerdtfeger A 1

Date Reported:

8-08-94

Laboratory Number:

TPH-1057

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,200	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
978	938	4.18

^{*}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: Sep I Pit - B0042

Review

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

Field TPH-Worksheet

Max Characters:

Project Location:

Client:

Amoco

Sample ID:

5 @ 11'

Laboratory Number:

Schwerdtfeger A 1

TPH-1057

Project #:

Date Analyzed: 8-08-94 Date Reported: 8-08-94

Sample Matrix: Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

298 mg/kg

TPH Result:

1192.0 mg/kg

Reported TPH Result:

1200 mg/kg

Actual Detection Limit: Reported Detection Limit: 20.0 mg/kg 20 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff. _ _ _

978

938

4.18

Comments:

Comments:

Sep | Pit - B0042



AROMATIC VOLATILE ORGANICS

Attn:

Nelson Velez

Company: Blagg Engineering

Address:

P. O. Box 87

City, State: Bloomfield, NM 87413

Date:

8/9/94

Lab ID:

1684

Sample ID:

2406

Job No.

2-1000

Project Name:

Schwerdtfeger A1

Project Location:

5 @ 11' - Sep. I

Sampled by:

NV

Date: Date: 8/8/94 8/9/94 Time:

13:18

Analyzed by: Sample Matrix: DLA

Soil

Aromatic Volatile Organics

Component	**Measured Concentration ug/kg		
Benzene	3.7		
Toluene	7.4		
Ethylbenzene	486		
m,p-Xylene	3,731		
o-Xylene	2,662		
	TOTAL 6,890 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:

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657 W. Maplé, • P. O. Box 2606 • Farmington, NM 87499

LAB: (505) 325-5667 • FAX: (505) 325-6256

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	Распе

Date: 88 94

07.0 80042 Remarks (matrix) 10/6/3 Sampling Location: Oct G Date/Time Date/Time Telefax No. **ANALYSIS REQUESTED** Title 10 Working Days スタント つかん か 632-1199 Name //2050A VELEZ 5 Working Days SAME Mailing Address 5.6 m SAME City, State, Zip (0203) + 3KB Telephone No. Company Received by: Received by: RESULTS TO Containers Number of **PRESERVATIVES** 0705 Date/Time 2/9/44 COMPOSITE/ GRAB Date/Time Date/Time Dept. Date_ Blomy 12th CITY, State, ZIP BLOWNFIELD NING KIHIS DATE/TIME SAMPLED Reference No.: でることにでこの (Client Signature Must Accompany Request) SCHWERDTFEGER AI 8 SAMPLE IDENTIFICATION P.O. BOX 少しもこの SEP Purchase Order No.: Method of Shipment: Special Instructions: Company Address Relinquished by: _ Relinquished by: Relinquished by: Name Authorized by: (S) Sampler: INVOICE SEND

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

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District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
1trict III
Rio Brazos Rd, Aztec, NM 87410

State of New Mexico 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:	Amoco Production Company	Telephone: (505) - 326-9200
Address:	200 Amoco Court, Farmington	, New Mexico 87401
Well Name	SCHWERDTFEGER	
Location: Unit	or Qtr/Qtr Sec Se	36 7280 R 9W county SAN THAN
Pit Type: Sepa	$\overset{(\perp\!\!\!\perp)}{rator}\!$	ther
Land Type: BL	M_X_, State, Fee	, Other
Pit Location: Attach diagram)	Reference: wellhead X	/9 , width, depth
	Footage from reference:	81
		e: 67 Degrees X East North
·		West South X
Depth To Groun (Vertical distance contaminants to s high water elevat ground water)	e from seasonal	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
domestic water so	ection Area: est from a private ource, or; less than .l other water sources)	Yes (20 points) No (0 points)
	nce 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):

			8/8/9/1
Date Remediation St	arted:		
Remediation Method:	Excavation \times	Approx. cubic yards	75
(Check all appropriate sections)	Landfarmed \nearrow	Insitu Bioremediation _	
	Other		
Remediation Location	n: Onsite X Off:	site	
(ie. landfarmed onsite, name and location of	<u>, </u>		•
offsite facility)			
General Description	Of Remedial Action		
Excavation	on		
	\ .		
Ground Water Encoun	tered: No X	Yes Depth	
Final Pit:	Sample location	see Attached Documents	
Closure Sampling: (if multiple samples,			
attach sample results and diagram of sample	Sample depth	8'	
locations and depths)	Sample date 8/8	94 Sample time	1332
	Sample Results		
	Benzene(ppm)		
	Total BTEX(pp		
		ce(ppm) 20.6	
	TPH 52 PPM	<u>-</u>	
cuand Water Cample	• Ves No X	(If yes, attach sample	results)
Ground water pampie	· 165		•
		ABOVE IS TRUE AND COMPLET	E TO THE BEST
OF MY KNOWLEDGE AND			1
DATE 8/8/94 SIGNATURE SSS	PRINTED	NAME BUDDY SI E ENVIRONMENTAL	nAcc),
SIGNATURE (2) 5 l	AND TITL	E Environmental	PORDINATOR

			8/8/94	
Date Remediation St.		Date Completed:	7/	
mediation Method: , check all appropriate		Approx. cubic yards		
sections)	Landfarmed	Insitu Bioremediation _		
	Other			
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)		site		
General Description	Of Remedial Action	:		
Excavation	on			
	V	Yes Depth		
Ground Water Encoun	rered: NO 📐	resnebru		
Final Pit: Closure Sampling: (if multiple samples,	Sample location			
attach sample results	Sample depth	81		
locations and depths)	Sample date 8/8	94 Sample time 1	332	
	Sample Results	_		
	Benzene(ppm)			
	Total BTEX(pr			
		ace(ppm) 20.6		
	TPH 52 PPM	<u>-</u>		
Ground Water Sample: Yes No _X (If yes, attach sample results)				
I HEREBY CERTIFY TH F MY KNOWLEDGE AND		ABOVE IS TRUE AND COMPLET	E TO THE BEST	
DATE 8/8/94	Λ	RIINCI		
SIGNATURE BASI	PRINTED AND TITE	NAME Buddy D. S.	pardinator	
		man and the state of the state		

02.2	AGG ENGINEERING, INC. 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80042</u> C.O.C. NO:
FIELD REPORT: CL	OSURE VERIFICATION	PAGE No: _/_ of _ /
LOCATION: NAME: SCHWERDFFEGER QUAD/UNIT: C SEC: 36 TWP: 28	WELL #: AI PIT: JEP II RNG: AW PM: Now CNTY: ST ST.Now	DATE STARTED: 8/8/94 DATE FINISHED: 8/8/94
	CONTRACTOR: P VELASQUEZ	ENVIRONMENTAL SPECIALIST:
DISPOSAL FACILITY: LA	PROX/9 FT. x _/5 FT. x NOFFERMED OD-SITE CUBIC YAR LEASE: _NONE O	DAGE: <u>75</u>
	ATED AFPROXIMATELY _%[FEET S VATER SOURCE: >1000 NEAREST SURFAC	
NMOCD RANKING SCORE: NMOCD TPH	CLOSURE STD: <u>\$000</u> PPM	FORMATION: DR
SOIL AND EXCAVATION DESCRIPTION: .	DK. YELL. BROWN SILTY SAND, NO. SLIGHTLY MOIST, FIRM TO DENSE HE ODOR.	2- COHESIVE, NO APPARENT
,	FIELD 418.1 CALCULATIONS	2
SAMPLE 1.U. LAB NO: V	VEIGHT (9) mL. FREON DILUTION READING CALC	ppm
SCALE O FT PIT PERIMETER N	OVM DESILTS PIT	PROFILE
	TUDOULIO	
SEP A' O A' Is'	1 @ 7 4. 2 @ 8 Zo. 6 3 @ 7 Z. 4 4 @ 8 3.0 5 @ 1, 2 2	SURTACE II'
TRAVEL NOTES: CALLOUT: 8/8/94	ONSITE: 8/8/94	

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

Sample ID:

2 @ 8'

Project #:

Project Location:

Date Analyzed: Date Reported: 8 - 08 - 94

Laboratory Number:

Schwerdtfeger A 1 TPH-1058

Sample Matrix:

8-08-94 Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	52	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
978	938	4.18

^{*}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:

Sep II Pit - B0042

Review

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

Field TPH-Worksheet

Max Characters:

Project Location:

Client:

Amoco

Sample ID:

2 @ 8'

Laboratory Number:

Schwerdtfeger A 1

TPH-1058

Project #:

Date Analyzed: Date Reported: 8-08-94 8-08-94

Sample Matrix: Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

13 mg/kg

TPH Result:

Reported TPH Result:

52.0 mg/kg

Actual Detection Limit:

52 mg/kg 20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff.

978

938

4.18

Comments:

Comments:

Sep II Pit - B0042

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: 6032
FIELD REPORT: LANDFARM/COMPOST PILE CLOSUR	
QUAD/UNIT: C SEC: 36 TWP: ZBN RNG: 9W PM: Nm CNTY: 5J ST: Nm	DATE STARTED: 6/23/98 DATE FINISHED:
QTR/FOOTAGE: 1050 FOL 1510 FUL CONTRACTOR: P+5	ENVIRONMENTAL SPECIALIST:
SOIL REMEDIATION:	
REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC	YARDAGE: / 9 Z
LAND USE: RANGE LIFT DEPTH (ft)	: <u>Au</u> :
FIELD NOTES & REMARKS:	,
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURF	ACE WATER: >/000
NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: 5000 PPM	
MOSTLY MOD. YELL. BROWN SAND, NON CONFESIVE SLIGHTLY MOIST, FIR ATION OR HE DOOR OBSERVED & GLOWD SLRTACE OR ALLY OF THE DEPTHS RANGE FROM 4" TO 12" COLLECTED 5 PT. COMPOSITE FOR LAS	SAMPLE PTS, SAMPLE
	3 ANOLYSIS,
Crozed	
P + A'S 2/16/96 FIELD 418.1 CALCULATIONS	MEL CORRESP. 12/12/96.
SAMP. TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION REAL	ING CALC. ppm
SKETCH/SAMPLE LOCATIONS N	
CLIER SIDE	
OVM RESULTS	LAB SAMPLES
SAMPLE FIELD HEADSPACE SAMF ID PID (ppm) ID	
3 5-1 0.0 LE-	((2168) OTE ND
S DESTANOTION	
SAY-PLE	
ARXA 1	
(132 NG3W MELL HEAD) MELL	
SCALE	
WELL O FT	
TRAVEL NOTES: CALLOUT: ~A ONSITE: 6/23/98-	MORN



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	06-29-98
Laboratory Number:	D486	Date Sampled:	06-23-98
Chain of Custody No:	6032	Date Received:	06-25-98
Sample Matrix:	Soil	Date Extracted:	06-26-98
Preservative:	Cool	Date Analyzed:	06-26-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH
		Concentration	Det. Limit
Parameter		(mg/Kg)	(mg/Kg)
Gasoline Range (C5 -	C10)	ND	0.2
Diesel Range (C10 -	C28)	ND	0.1
Total Petroleum Hydr	ocarbons	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:

Schwerdtfeger A #1 Landfarm. 5 Pt. composite.

Analyst . Capera

Review

Itacy W Sendler

CHAIN OF CUSTODY RECORD

e^	Projec	Project Location	CANDFARM			ANALYSIS / I	ANALYSIS / PARAMETERS		
BLA66/ Anoco	ZZ	SCHWERDTFESER	5ER A#1						
Sampler:	Client No.	No.			(Hemarks	
グナン		0 pr 3 4-1 0		o. of	SI H.		The	BESEW	-cool
Sample No./ Sample Sample Identification Date Time		Lab Number	Sample Matrix		08)				
0 86/2/9		D4561	50 L	<u> </u>	>		7	J. COMPOSITE	DS/TE
	-								
Relinquished by: (Signature)			Date Time Re	sceived by	Received by: (Signature)	Oleen		Date 6.21.8F	Time 12 24
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R.D COC'S \$032 - \$	\$02 F		FOVIDOTECH IOC	F C			Š	Sample Receipt	
•					2			>	Z
			5796 U.S. Highway 64	Highway	64		Received Intact	Intact	
			(505) 632-0615	2-0615			Cool - Ice/Blue Ice	lue ice	