Blow-off
Sep - Rick - below 80184

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

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

Denied 11/25/96 due to LF

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name C.A McADAMS C2

Location: Unit or Qtr/Qtr Sec K Sec 5 T 29 N R 10 W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other BLOW

Land Type: BLM X, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length NA, width NA, depth NA
Reference: wellhead X, other ___
Footage from reference: 340'
Direction from reference: 50 Degrees ___ East North X of
X 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

B0184

Date Remediation Started: _____ **Date Completed:** 12/12/94

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards NA

Landfarmed ___ Insitu Bioremediation ___

Other CLOSE AS IS

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

General Description Of Remedial Action: _____

Excavation - NO CONTAMINATED SOILS

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 location see Attached Documents

Sample depth 8'

Sample date 12/12/94 Sample time 1205

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 0.0

TPH 116 ppm

Ground Water Sample: Yes ___ No X (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 12/12/94

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: 80184
C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: C.D. MCADAMS WELL #: C2 PIT: BLOW
QUAD/UNIT: K SEC: 5 TWP: 27N RNG: 10W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NE/4 SW/4 CONTRACTOR: EPC

DATE STARTED: 12/12/94
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: NA
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: COMPOSTED
LAND USE: RANGE LEASE: SF-077941 FORMATION: OK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 340 FT. N50W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

CHECK ONE:
✓ PIT ABANDONED
___ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

DK. YELL. ORANGE TO MOD. YELL. BROWN SAND, NON-COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HC ODOR IN EITHER SOIL SAMPLE.

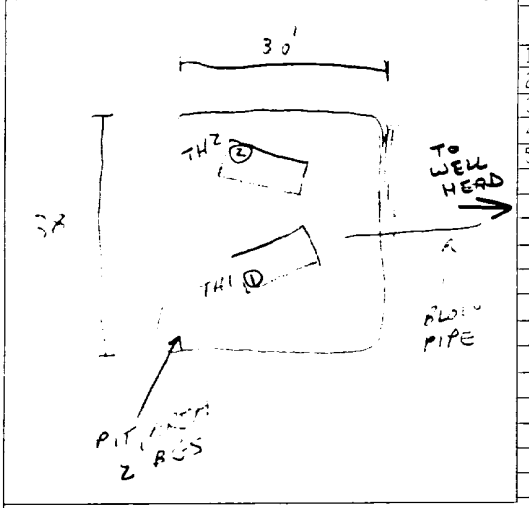
CLOSED AS IS

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1205	① @ 8'	TPH-1317	5	20	1:1	29	116

SCALE
0 FT

PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 8'	0.0
2 @ 10'	0.0
3	
4	
5	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE

NOT APPLICABLE

TRAVEL NOTES: CALLOUT: 12/9/94 ONSITE: 12/12/94

BLAGG ENGINEERING, INC.
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:	1 @ 8'	Date Analyzed:	12-12-94
Project Location:	C.A. McAdams C 2	Date Reported:	12-12-94
Laboratory Number:	TPH-1317	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**120**	**20**

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2640	2640	0.00

*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 - B0184

Analyst

R. E. O'Neill
Review

BLAGG ENGINEERING, INC.
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:	1 @ 8'	Date Analyzed:	12-12-94
Project Location:	C.A. McAdams C 2	Date Reported:	12-12-94
Laboratory Number:	TPH-1317	Sample Matrix:	Soil

Sample Weight:	5.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	29	mg/kg

TPH Result:	116.0	mg/kg
Reported TPH Result:	120	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.
	2640	2640	0.00

Comments: **********Max Characters**********

Comments: Blow Pit - B0184

B0184

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

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

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: C.A. McADAMS C2
Well Name

Location: Unit or Qtr/Qtr Sec K Sec 5 T 27N R 10W County SAN JUAN

Pit Type: Separator X Dehydrator ___ Other ___

Land Type: BLM X, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 25', width 22', depth 10'
Reference: wellhead X, other ___
Footage from reference: 163'
Direction from reference: 30 Degrees ___ East North X
of
X 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

B0184

Date Remediation Started: _____ **Date Completed:** 12/13/94

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 140

Landfarmed ___ Insitu Bioremediation ___

Other COMPOSTED

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

General Description Of Remedial Action: _____

Excavation – BEDROCK BOTTOM. RISK ASSESSED.

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 location see Attached Documents

Sample depth 6'

Sample date 12/12/94 Sample time 1155

Sample Results

Benzene(ppm) 0.0163

Total BTEX(ppm) 62.610

Field headspace(ppm) 552

TPH 1,508 ppm

Ground Water Sample: Yes ___ No X (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 12/13/94

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: 80184
C.O.C. NO: 2323

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: J.A. MCADAMS WELL #: C2 PIT: SEP
QUAD/UNIT: K SEC: 5 TWP: 27N RNG: 10W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE NE/4 SW/4 CONTRACTOR: EPC

DATE STARTED: 12/12/94
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 25 FT. x 22 FT. x 10 FT. DEEP. CUBIC YARDAGE: 140
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: COMPOSTED
LAND USE: RANGE LEASE: SF-077941 FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 163 FT. N30W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

CHECK ONE:
✓ PIT ABANDONED
___ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

DK YELL. ORANGE (WEST SIDEWALL), MOD. YELL. BROWN (SOUTH SIDEWALL), OLIVE GRAY (EAST SIDEWALL), MED DK. GRAY (NORTH SIDEWALL), DK. GRAY (BOTTOM), SAND, NON-COHES., SLIGHTLY MOIST, FIRM, STRONG HC ODOR IN ALL OVM SAMPLES EXCEPT WEST SIDE.

BOTTOM @ 10' TO BEDROCK, SOFT.

CONDITIONAL CLOSURE

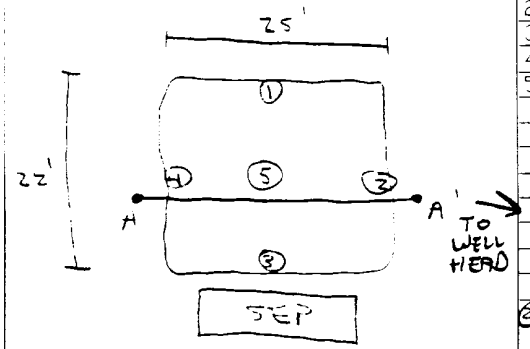
RISK ASSESSED

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1155	② @ 6'	TPH-1316	5	20	1:1	377	1508

SCALE
0 FT

PIT PERIMETER



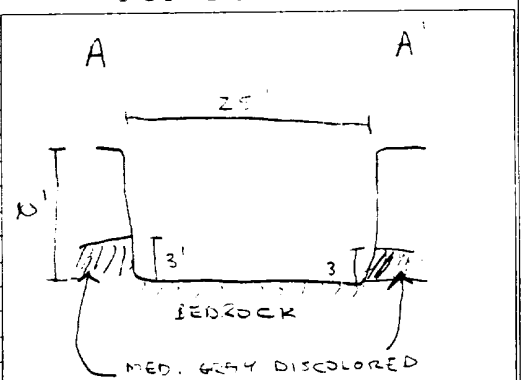
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 7'	479
2 @ 6'	552
3 @ 6'	372
4 @ 6'	0.0
5 @ 10'	684

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
② @ 6'	BTEX	1115
B - 16.3 ppb		
TOT. BTEX - 62,610 ppb		
FAILED		

PIT PROFILE



TRAVEL NOTES: CALLOUT: 12/9/94 ONSITE: 12/12/94

Well Name:	**McAdams CA C #2**
Well Site location:	Unit K, Sec. 5, T27N, R10W
Pit Type:	Separator Pit
Producing Formation:	Basin Dakota
Pit Category:	Non Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 10 feet below grade.

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

1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 10 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.

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 **non-vulnerable area** and is approximately 1.02 miles north northeast of the nearest vulnerable area boundary (East Fork Kutz wash).

(Refer to East Fork Kutz 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).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

BLAGG ENGINEERING, INC.
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 @ 6'	Date Analyzed:	12-12-94
Project Location:	C.A. McAdams C 2	Date Reported:	12-12-94
Laboratory Number:	TPH-1316	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**1,500**	**20**

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2640	2640	0.00

*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 - B0184

Analyst

R. E. O'Neill
Review

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Nelson Velez*
Company: *Blagg Engineering*
Address: *P.O. Box 87*
City, State: *Bloomfield, NM 87413*

Date: 12/13/94
Lab ID: 2323
Sample ID: 4361
Job No. 2-1000

Project Name: ***C. A. McAdams C 2***
Project Location: ***2 @ 6' - Sep Pit***
Sampled by: NV Date: 12/12/94 Time: 11:15
Analyzed by: DLA Date: 12/13/94
Sample Matrix: *Soil*

Aromatic Volatile Organics

Component	*Measured Concentration ug/kg*	*Detection Limit Concentration ug/kg*
Benzene	*16.3*	*0.2*
Toluene	*2,969*	*0.2*
Ethylbenzene	*2,125*	*0.2*
m,p-Xylene	*42,571*	*0.2*
o-Xylene	*14,928*	*0.2*
	TOTAL 62,610 ug/kg	

ND - Not Detectable

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

Approved by:
Date: 12/13/94

BLAGG ENGINEERING, INC.
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:	2 @ 6'	Date Analyzed:	12-12-94
Project Location:	C.A. McAdams C 2	Date Reported:	12-12-94
Laboratory Number:	TPH-1316	Sample Matrix:	Soil

Sample Weight:	5.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	377	mg/kg

TPH Result:	1508.0	mg/kg
Reported TPH Result:	1500	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.
2640	2640	0.00

Comments: **********Max Characters**********

Comments: Separator Pit - B0184

2323

CHAIN OF CUS . JDY RECORD

ON SITE TECHNOLOGIES, LTD.

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

Date: 12/12/24

Page 1 of 1

80184

Purchase Order No.:	Reference No.:		
SEND INVOICE TO — Name			
Company		Dept.	
Address			
City, State, Zip			

REPORT RESULTS TO — Name		Title	
Company			
Mailing Address			
City, State, Zip			
Telephone No.		Telefax No.	

Special Instructions:

Sampler:

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE/ GRAB	PRESERVATIVES	Number of Containers	ANALYSIS REQUESTED (BTEX)									Remarks (matrix)

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Rush	5 Working Days	10 Working Days	Sampling Location:

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

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: BO184
C.O.C. NO: ANALY.

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: C.A. MCADAMS C #2 LEASE: SF-077941
QUAD/UNIT: K SEC: 5 TWP: 27N RNG: 10W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NE/SW CONTRACTOR: EPC

DATE STARTED: 3-26-96
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: REG

SOIL REMEDIATION:

REMEDIATION SYSTEM: COMPOST APPROX. CUBIC YARDAGE: 140
LAND USE: RANGE

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

SOIL HAS BEEN LEVELED ON EDGE OF LOCATION.

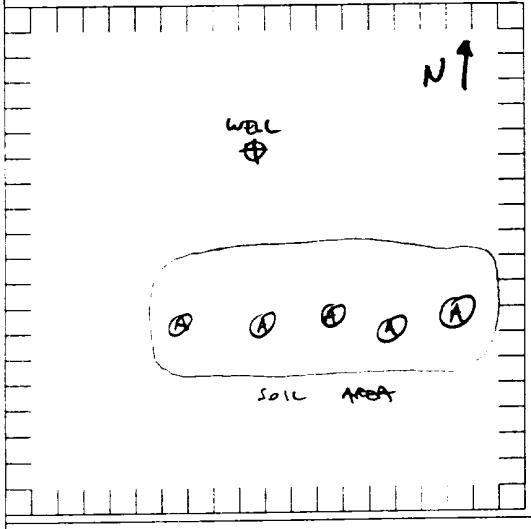
SOIL CONSISTS OF BROWN, MOIST, SILTY SAND. SOME MINOR STAINING VISIBLE - COMPOSTING ODOR PRESENT.

CLOSE C.P.

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS



SCALE
0 FT

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	8

LAB SAMPLES

SAMPLE ID	ANALYSIS
COMP. A	8015 < ND

TRAVEL NOTES: CALLOUT: ONSITE: 3-26-96 0945

FORM REVISED 1/96

ANAITAS
ENVIRONMENTAL LABS

TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Blagg Engineering, Inc.

Project ID:	C.A. McAdams C #2	Report Date:	04/04/96
Sample Matrix:	Soil	Date Sampled:	03/26/96
Preservative:	Cool	Date Received:	03/26/96
Condition:	Intact	Date Extracted:	03/28/96
		Date Analyzed:	03/28/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	2982	ND	18.5

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
Trifluorotoluene	70%	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

ANAITAS
ENVIRONMENTAL LABS

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID:	C.A. McAdams C #2	Report Date:	04/04/96
Sample Matrix:	Soil	Date Sampled:	03/26/96
Preservative:	Cool	Date Received:	03/26/96
Condition:	Intact	Date Extracted:	03/28/96
		Date Analyzed:	03/28/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	2982	ND	19.2

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
o - Terphenyl	99%	50 - 150%

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:

Analyst

Review