

Blow ^{OK} BT 507
Sps - OK

RECEIVED
AUG 20 1999

OIL CON. DIV.
 DIST. 3

Operator: <u>AMOCO PRODUCTION COMPANY</u>		Telephone: <u>(505) 326-9200</u>	
Address: <u>200 Amoco Court, Farmington, NM 87401</u>			
Facility or Well Name: <u>JICARILLA APACHE TRIBAL 35 #1</u>			
Location: Unit or Qtr/Qtr Sec <u>K</u> Sec <u>1</u> T <u>24N</u> R <u>5W</u> County <u>RIO ARriba</u>			
Pit Type: Separator <input type="checkbox"/> Dehydrator <input type="checkbox"/> Other <u>BLOW</u>			
Land Type: <u>RANGE</u>			

Pit Location: (Attach diagram)	Pit dimensions:	length <u>50'</u>	width <u>55'</u>	depth <u>19'</u>
	Reference:	wellhead <input checked="" type="checkbox"/> , other <input type="checkbox"/>		
	Footage from reference:	<u>280'</u>		
	Direction from reference:	<u>54</u> Degrees	<input checked="" type="checkbox"/> East <input type="checkbox"/> West	of North <input type="checkbox"/> South

Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	<u>0</u>
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)	<u>0</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)	Yes No	(20 points) (0 points)	<u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS):			<u>0</u>

Date Remediation Started: _____ Date Completed: 11/26/97Remediation Method: Excavation ☒ Approx. cubic yards 1,500
Check all appropriate (options) Landfarmed ☒ Insitu Bioremediation _____
Other STOCKPILEDRemediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)General Description of Remedial Action: ExcavationGroundwater Encountered: No ☒ Yes _____ Depth _____Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)
Sample location see Attached Documents
Sample depth 21'
Sample date 11/25/97 Sample time 1045

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>0.0</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>26.8</u>	Total Xylenes	(ppb)	_____

Groundwater 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 11/26/97 PRINTED NAME Buddy D. Shaw
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) _____SIGNED: Ken C. Marshall DATE: 1-6-97

3003921992

CLIENT AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: BJ507C.O.C. NO: 5675

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1LOCATION: NAME: JICA ARACHE TRIGAL WELL # 35 PIT: BLOW
QUAD/UNIT: K SEC 1 TWP: 24N RNG: 5W PM: NM CNTY: RA ST: NM
DIP/FOOTAGE: NE 1/4 SW 1/4 CONTRACTOR: P+SDATE STARTED: 11/25/97

DATE FINISHED: _____

ENVIRONMENTAL
SPECIALIST: NVEXCAVATION APPROX. 50 FT. x 55 FT. x 19 FT. DEEP. CUBIC YARDAGE: 1,500DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LF/SPLAND USE: RANGE LEASE: TIC 35 FORMATION: DKFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 280 FT 554 E FROM WELLHEADDEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMDCD PARKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

COIL AND EXCAVATION DESCRIPTION:

CHECK ONE:

- ☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

MOSTLY MOD. TO DK. YELL. BROWN SAND W/ A 6"-2" CLAY INTERVAL E APPROX.
 13'-14' BELOW NORTH SIDEWALL GRADE SAND NON COHESIVE, SLIGHTLY MOIST,
 FIRM, NO APPARENT STRAINING OR DISCOLORATION OBSERVED W/IN EXCAVATION,
 NO APPARENT HC ODOOR IN ANY OF THE OVM SAMPLES.

CLOSED

SCALE

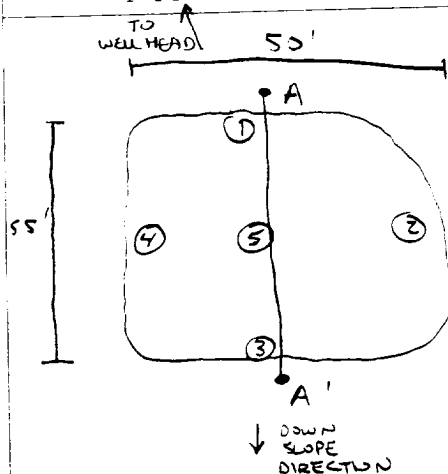


0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1045							

PIT PERIMETER



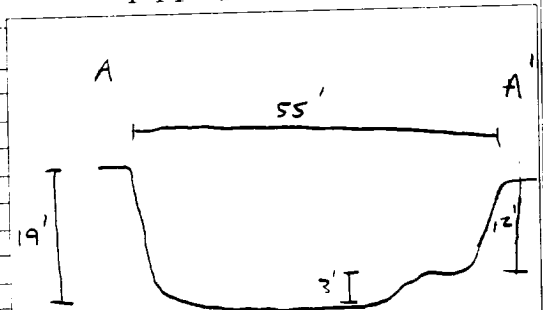
OVM RESULTS

SAMPLE ID	FIELD HEAD-FALE PID (PPM)
1 @ 15'	0.0
2 @ 13'	0.0
3 @ 15'	0.0
4 @ 16'	0.0
5 @ 21'	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5 @ 21'	TPH (418.1)	1045
	PASSED	

PIT PROFILE



TRAVEL NOTES:

CALLOUT: 11/24/97 - MORN.ONSITE: 11/25/97 - MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 21'	Date Reported:	11-26-97
Laboratory Number:	C583	Date Sampled:	11-25-97
Chain of Custody No:	5675	Date Received:	11-25-97
Sample Matrix:	Soil	Date Extracted:	11-26-97
Preservative:	Cool	Date Analyzed:	11-26-97
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

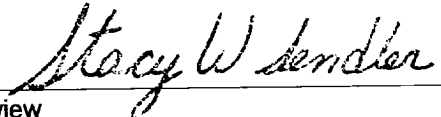
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	26.8	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: Jicarilla Apache Tribal 35 - 1 Blow Pit.


Analyst


Review

**JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528**

BT507

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY **Telephone:** (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA APACHE TRIBAL 35 #1
Location: Unit or Qtr/Qtr Sec K Sec 1 T24N R5W County RIO ARIZONA
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 43', width 35', depth 24'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 200'
Direction from reference: 82 Degrees ☒ East of North ☐
West of South ☒

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	<u>0</u>
Greater than 100 feet	(0 points)	

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet	(10 points)	<u>0</u>
Greater than 100 feet	(0 points)	

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and
livestock or wildlife watering ponds)

Less than 100 feet	(10 points)	<u>0</u>
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)	<u>0</u>
No	(0 points)	

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	<u>0</u>
Greater than 1000 feet	(0 points)	

RANKING SCORE (TOTAL POINTS): 0

BJ507

SEP. PIT

Date Remediation Started: _____ Date Completed: 11/26/97

Remediation Method: Excavation ☒ Approx. cubic yards 1,000
Check all appropriate (check all appropriate) Landfarmed ☒ Insitu Bioremediation _____
Other STOCKPILED

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

General Description of Remedial Action: Excavation.

Groundwater 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 25'
Sample date 11/25/97 Sample time 1000

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>43.2</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>960</u>	Total Xylenes	(ppb)	_____

Groundwater 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 11/26/97 PRINTED NAME Buddy D. Shaw
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) _____

SIGNED: Kenn C. Mammall DATE: 1-6-98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

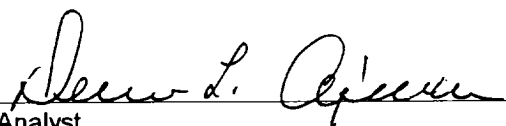
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 25'	Date Reported:	11-26-97
Laboratory Number:	C582	Date Sampled:	11-25-97
Chain of Custody No:	5675	Date Received:	11-25-97
Sample Matrix:	Soil	Date Extracted:	11-26-97
Preservative:	Cool	Date Analyzed:	11-26-97
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

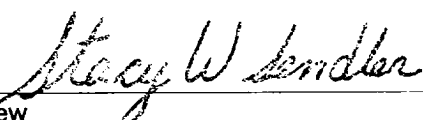
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	960	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: Jicarilla Apache Tribal 35 - 1 Separator Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location		ANALYSIS/PARAMETERS											
Blades / Amoco			TERRAZA APACHE TRIBAL 35-1													
Sampler: (Signature) <i>William V. L.</i>			Chain of Custody Tape No. 04034-10													
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (418.1)					Remarks					
⑤ e 25'	11/25/97	1000	CS82	SOIL	1	✓						SEPARATOR PIT				
⑤ e 21'	11/25/97	1045	CS83	SOIL	1	✓						BLOW PIT				
												BOTH SAMPLES				
												FRESHLY - COOL				
												d ALL GARB				
												SAMPLES.				
Relinquished by: (Signature) <i>William V. L.</i>			Date 11/25/97	Time 1445	Received by: (Signature) <i>David S. Owens</i>	SAMPLES RECEIVED cool & WET 2-14					Date 11/25/97	Time 1445				
Relinquished by: (Signature)					Received by: (Signature)											
Relinquished by: (Signature)					Received by: (Signature)											

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

8J507

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

**JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528**

ON-SITE SOIL REMEDIATION REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA APACHE TRIBAL 35 #1
Location: Unit or Qtr/Qtr Sec K Sec 1 T 24N R 5W County BLA AIRIBA
Land Type: RANGE
Date Remediation Started: 11 25 97 Date Completed: 11/12/99
Remediation Method: Landfarmed ☒ Approx. cubic yards 2306 2,080
Composted ☐
Other ☐

Depth To Groundwater: (pts.) 0
Distance to an Ephemeral Stream (pts.) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 12/30/98 Time: 1120

Sample Results:

Field Headspace (ppm) 0.0
LF-1
TPH (ppm) 1,220 Method 8015
Other MULTIPLE SAMPLES - REFER TO

RANKING SCORE (TOTAL POINTS): 0

ATTACHED SHEET.

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

DATE 11/12/99 PRINTED NAME Buddy D. Shaw
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO ☐ (REASON) _____

SIGNED: K-C M... DATE: 3-31-99

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJS07</u> C.O.C. NO: <u>60434</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA APACHE TRIBAL</u> WELL #: <u>1</u>	PITS: <u>SEP, BLOW</u>	DATE STARTED: <u>12/30/98</u>
QUAD/UNIT: <u>K</u> SEC: <u>1</u> TWP: <u>24N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		DATE FINISHED: <u>1/12/99</u>
QTP/FOOTAGE: <u>NE/4 SW/4</u>	CONTRACTOR: <u>P&S</u>	ENVIRONMENTAL SPECIALIST: <u>EP</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 2,080 ⁹⁵

LAND USE: RANGE

LIFT DEPTH (ft): 1'-2'

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: > 100' NEAREST WATER SOURCE: > 1000' NEAREST SURFACE WATER: > 1000'

NMOCED RANKING SCORE: 0 NMOCED TPH CLOSURE STD: 5000 PPM

DK. YELLOW ORANGE TO LT BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM
SOME STAINING OBSERVED IN 1 LARGE AREA OF LANDFARM #2 (SEE SKETCH BELOW)
SLIGHT HC ODOR IN SAMPLING POINT ⑦ 5 POINT COMPOSITE SAMPLE TAKEN FROM
EACH LANDFARM AREA FOR LAB ANALYSIS.

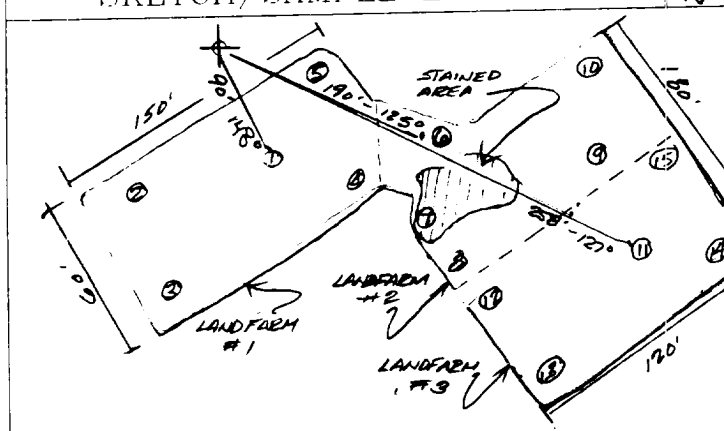
CLOSED

APPROX. 420 C.Y.
DISPOSED TO JICA
AP. TRIB. 35-7

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (BCIS)	1120	1,220
LF-2	0.0	LF-2	" "	1215	539
LF-3	0.0	LF-3	" "	1300	69.5

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: N/A

ONSITE: 12.30.98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons


Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	01-06-99
Laboratory Number:	E454	Date Sampled:	12-30-98
Chain of Custody No:	6434	Date Received:	01-05-99
Sample Matrix:	Soil	Date Extracted:	01-05-99
Preservative:	Cool	Date Analyzed:	01-06-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

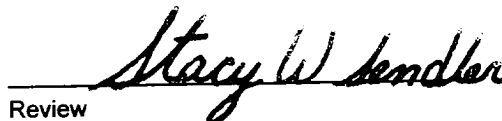
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	15.5	0.2
Diesel Range (C10 - C28)	1,205	0.1
Total Petroleum Hydrocarbons	1,220	0.2

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: Jicarilla AP. Tribal 35 #1 Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

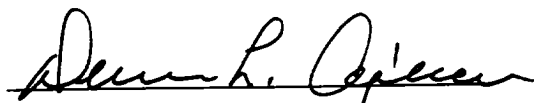
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 2	Date Reported:	01-06-99
Laboratory Number:	E455	Date Sampled:	12-30-98
Chain of Custody No:	6434	Date Received:	01-05-99
Sample Matrix:	Soil	Date Extracted:	01-05-99
Preservative:	Cool	Date Analyzed:	01-06-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

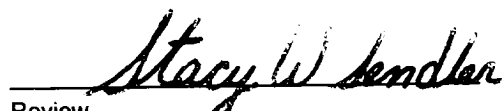
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6.9	0.2
Diesel Range (C10 - C28)	532	0.1
Total Petroleum Hydrocarbons	539	0.2

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: Jicarilla AP. Tribal 35 #1 Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

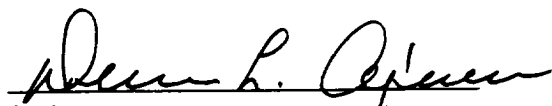
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 3	Date Reported:	01-06-99
Laboratory Number:	E456	Date Sampled:	12-30-98
Chain of Custody No:	6434	Date Received:	01-05-99
Sample Matrix:	Soil	Date Extracted:	01-05-99
Preservative:	Cool	Date Analyzed:	01-06-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

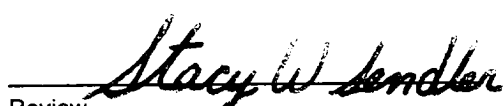
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5.3	0.2
Diesel Range (C10 - C28)	64.2	0.1
Total Petroleum Hydrocarbons	69.5	0.2

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: Jicarilla AP. Tribal 35 #1 Landfarm. 5 Pt. Composite.


Analyst


Review

6434

Client / Project Name				Project Location				ANALYSIS / PARAMETERS			
BLAGG/AMOCO				JCARBIA AP. TRIBAL 35#1							
Sampler: REP				Client No. 04034-10							
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)				Remarks	
LF-1	12/30/98	1120	E454	SOIL	1	✓				5 PT. COMPOSITE	
LF-2	12/30/98	1215	E455	SOIL	1	✓				5 PT. COMPOSITE	
LF-3	12/30/98	1300	E456	SOIL	1	✓				5 PT. COMPOSITE	
										ALL SAMPLES	
										PRESERVE - COOL	
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time
				1599	0800					1.5.99	8:00
Relinquished by: (Signature)				Received by: (Signature)							
Relinquished by: (Signature)				Received by: (Signature)							
Sample Receipt											
Received Intact										Y	N
Cool - Ice/Blue Ice										✓	