

Tank-Off

RECEIVED
NOV 12 1999

SOLD BY:

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 06/27/97 Date Completed: 07/03/97

Remediation Method: Excavation X Approx. cubic yards 50
(Check all appropriate sections)

Landfarmed X Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: EXCAVATE PIT TO OVM LEVEL OF OPPM

SAMPLE 1 BELOW EXCAVATION SAMPLE 2 4 POINT COMPOSITE SIDES

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location #1 - 1' BELOW EXCAVATION #2 - 1' PENETRATION EACH SIDE

Closure Sampling: ANALYSIS - FIELD HEADSPACE AND TPH ALL SAMPLES
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 10 FEET

Sample date 07/03/97 Sample time 07:15

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) _____ Toluene (ppb) _____

Field Headspace (ppm) S- 0 B-0 Ethylbenzene (ppb) _____

TPH (ppm) S-275 B-318 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 8/21/97 PRINTED NAME BRADLEY W. SALZMAN

SIGNATURE Bradley W. Salzman AND TITLE AGENT

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

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Karena L. Callado DATE: 8/27/97



Amoco Production Company

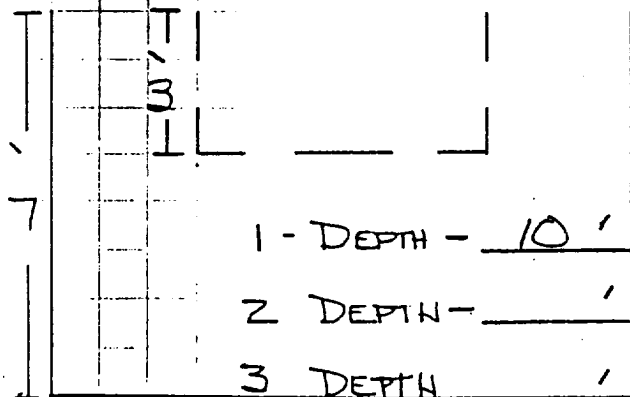
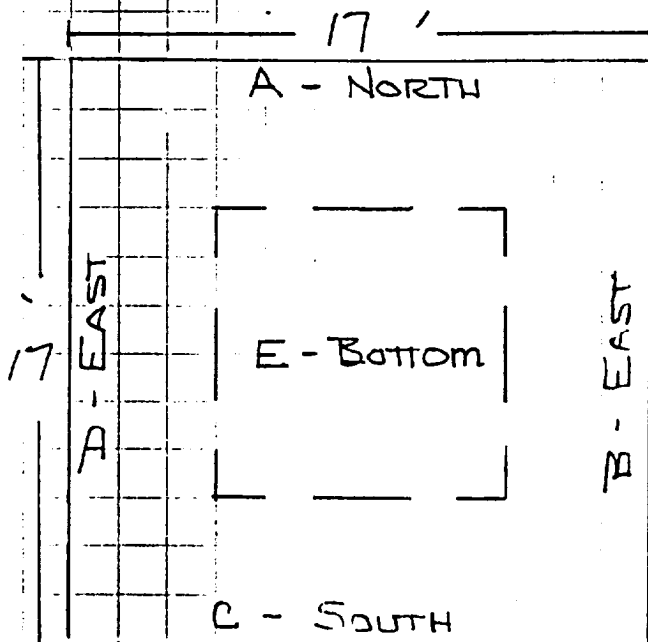
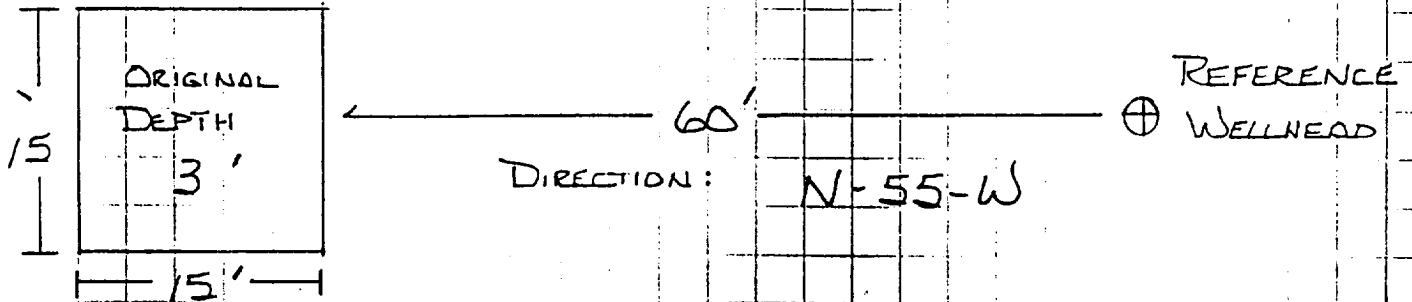
ENGINEERING CHART

Sheet No. _____ Of _____
File _____
Appn _____
Date _____
By _____

SUBJECT RODDY PRODUCTION - PIT CLOSURE

FIELD NOTES

WELL NAME: CHACON JICORILLA APACHE
D-9 SEPARATOR



— — — ORIGINAL
— — — EXCAVATED

SAMPLE ANALYSIS

	OVM PPM	TPH PPM
A ₁	0	AD 275
B ₁	0	
C ₁	9	
D ₁	0	
E ₁	0	
A ₂		3/8
B ₂		
C ₂		
D ₂		
E ₂		
A ₃		
B ₃		
C ₃		
D ₃		
E ₃		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

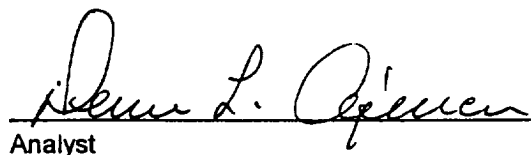
Client:	Roddy Production	Project #:	96300-44
Sample ID:	Chacon Jic. D-9 Sep Sides	Date Reported:	07-08-97
Laboratory Number:	B606	Date Sampled:	07-03-97
Chain of Custody No:	5294	Date Received:	07-03-97
Sample Matrix:	Soil	Date Extracted:	07-07-97
Preservative:	Cool	Date Analyzed:	07-07-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

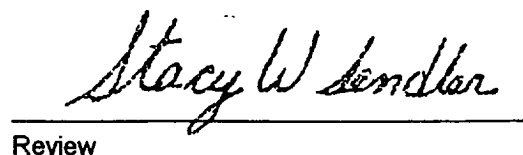
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	275	0.1
Total Petroleum Hydrocarbons	275	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla Pits.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

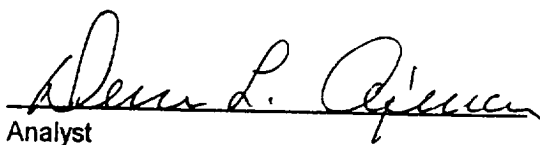
Client:	Roddy Production	Project #:	96300-44
Sample ID:	Chacon Jic. D-9 Sep Bot.	Date Reported:	07-08-97
Laboratory Number:	B607	Date Sampled:	07-03-97
Chain of Custody No:	5294	Date Received:	07-03-97
Sample Matrix:	Soil	Date Extracted:	07-07-97
Preservative:	Cool	Date Analyzed:	07-07-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

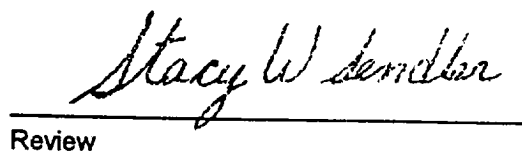
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	318	0.1
Total Petroleum Hydrocarbons	318	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla Pits.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location		ANALYSIS/PARAMETERS										
RODDY PRODUCTION			JICARILLA PITS												
Sampler: (Signature) <i>B. Salzman</i>			Chain of Custody Tape No. 96300-44												
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers									Remarks	
CUACON JICARILLA	7-3-97	07:15	B606	SOIL	1	1									All Samples Received Cool & intact bags
D-9 SEP SIDES	"	07:20	B607		1	1									
D-9 SEP. BOT.	"	07:40	B608		1	1									
D-108 TANK SIDES	"	07:45	B609		1	1									
D-108 TANK BOT.	"	07:50	B610		1	1									
D-108 SEP SIDES	"	07:55	B611		1	1									
D-108 SEP. BOT.	"	08:30	B612		1	1									
D-1 LAND FORM	"	9:10	B613		1	1									
D-1 LAND FORM	"	09:55	B614		1	1									
Relinquished by: (Signature) <i>B. Salzman</i>			Date	Time	Received by: (Signature) <i>W. J. C. [Signature]</i>			Date	Time						
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

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

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: RODDY PRODUCTION **Telephone:** 505-325-5750

Address: P.O. BOX 2221 FARMINGTON, NM 87499

Facility or Well Name: CHACON JICARILLA APACHE D NO 9

Location: Unit or Qtr/Qtr Sec 0 Sec 23 T 23N R 3W County RIO ARriba NM

Pit Type: Separator ☐ Dehydrator ☐ Other ☐ TANK

Land Type: _____

Pit Location: Pit dimensions: length 15', width 15', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 115

Direction from reference: N Degrees _____ East North _____
_____ of _____ West 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)
Greater than 100 feet (0 points) 0

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond

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

Less than 100 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 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 06/27/97 Date Completed: 06/30/97

Remediation Method: Excavation X Approx. cubic yards 35

(Check all appropriate sections)

Landfarmed X

In situ Bioremediation _____

Other _____

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

General Description of Remedial Action: EXCAVATE PIT TO OVM LEVEL OF OPPM

SAMPLE 1 4' BELOW EXCAVATION SAMPLE 2 4 POINT COMPOSITE SIDES

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location #1 - 4' BELOW EXCAVATION #2 - 1' PENETRATION EACH SIDE

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths) ANALYSIS - FIELD HEADSPACE AND TPH ALL SAMPLES

Sample depth 9 FEET

Sample date 06/30/97 Sample time 11:10

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) _____ Toluene (ppb) _____

Field Headspace (ppm) S-0 B-0 Ethylbenzene (ppb) _____

TPH (ppm) S-72 B-329 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 8/21/97 PRINTED NAME BRADLEY W. SALZMAN

SIGNATURE Bradley W. Salzman AND TITLE AGENT

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

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Karina L. Calledo DATE: 8/27/97



Amoco Production Company

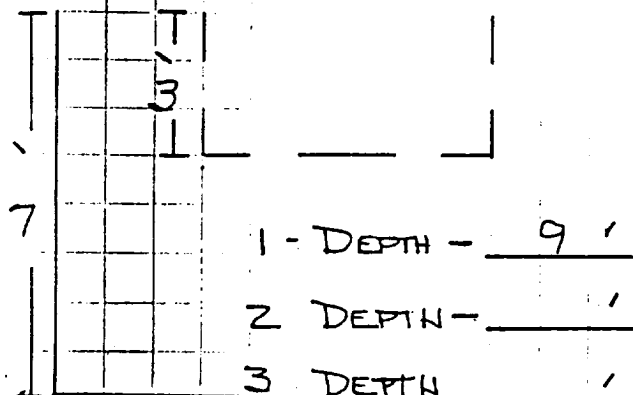
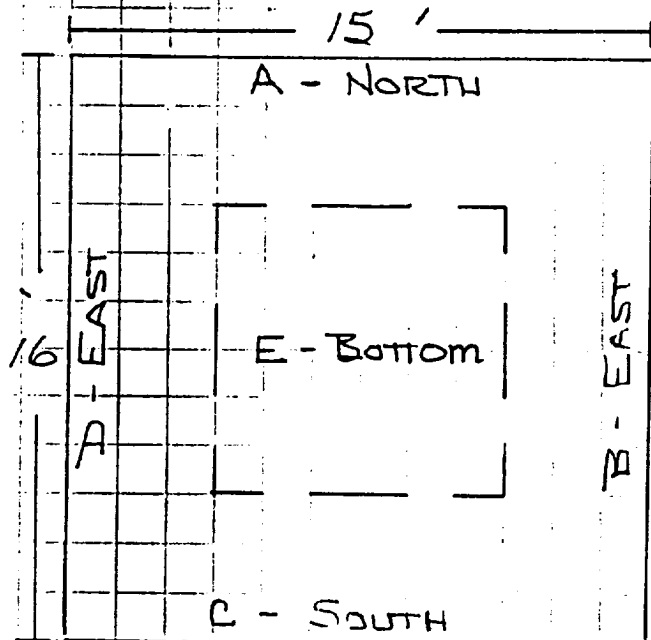
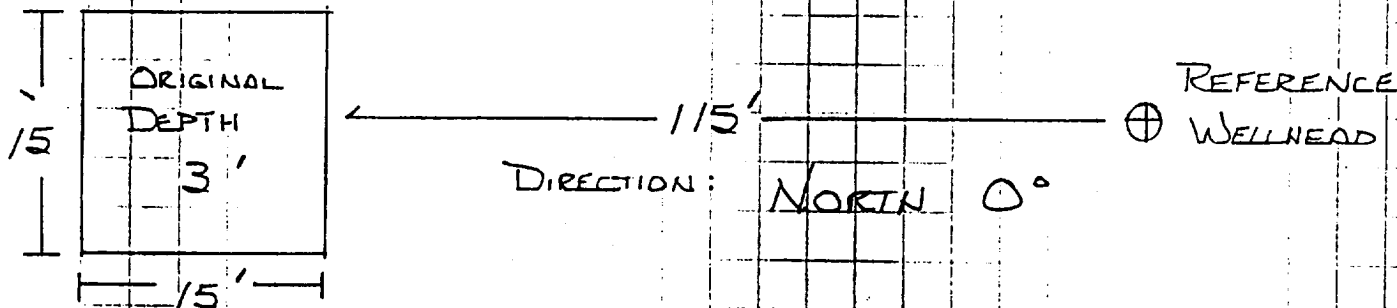
ENGINEERING CHART

Sheet No. _____ Of _____
File _____
Appn _____
Date _____
By _____

SUBJECT RODDY PRODUCTION - PIT CLOSURE

FIELD NOTES

WELL NAME: CNOCON TARRILLO APPCNE
D-9 TANK



SAMPLE ANALYSIS

	OVM PPM	TPH PPM
A ₁	0	A-D 72
B ₁	0	
C ₁	0	
D ₁	0	
E ₁	6	
A ₂		329
B ₂		
C ₂		
D ₂		
E ₂		
A ₃		
B ₃		
C ₃		
D ₃		
E ₃		

— ORIGINAL
— EXCAVATED

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

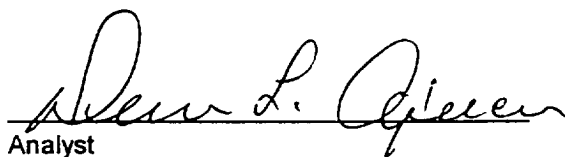
Client:	Roddy Production	Project #:	96300-44
Sample ID:	Chacon Jic. D-9 Tank Sides	Date Reported:	07-03-97
Laboratory Number:	B579	Date Sampled:	06-30-97
Chain of Custody No:	5280	Date Received:	07-01-97
Sample Matrix:	Soil	Date Extracted:	07-01-97
Preservative:	Cool	Date Analyzed:	07-02-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

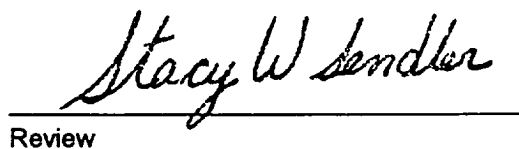
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	71.5	0.1
Total Petroleum Hydrocarbons	71.5	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla Pits.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location			ANALYSIS/PARAMETERS									
Robby Production			Jicarilla PITS												
Sampler: (Signature) <i>B. J. Salzman</i>			Chain of Custody Tape No. 96300-44												
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers						Remarks				
AMEZADA JIC.	6-30-97	09:10	B573	SOIL	1	1	1	1	1	1	1	1	1	1	all samples received cool & intact at
#2 LAND FORM	"	09:20	B574		1	1	1	1	1	1	1	1	1	1	
#4 LAND FORM	"	09:50	B575		1	1	1	1	1	1	1	1	1	1	
#3 TANK SIDES	"	09:55	B576		1	1	1	1	1	1	1	1	1	1	
#3 TANK BOT.	"	10:00	B577		1	1	1	1	1	1	1	1	1	1	
#3 SEP. SIDES	"	10:05	B578		1	1	1	1	1	1	1	1	1	1	
#3 SEP. BOT. CUACON JIC.	"	11:10	B579		1	1	1	1	1	1	1	1	1	1	
D-9 TANK SIDES	"	11:15	B580		1	1	1	1	1	1	1	1	1	1	
D-9 TANK BOT.	"	10:30	B581		1	1	1	1	1	1	1	1	1	1	
D-2 LAND FORM	"														
Relinquished by: (Signature) <i>B. J. Salzman</i>			Date	Time	Received by: (Signature) <i>Alvaro L. Ojeda</i>						Date	Time			
Relinquished by: (Signature)			7-1-97	09:15							7-1-97	09:15			
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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

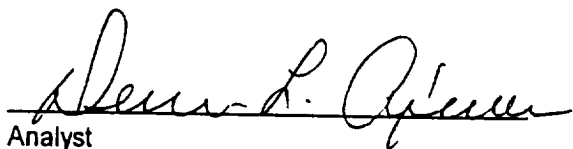
Client:	Roddy Production	Project #:	96300-44
Sample ID:	Chacon Jic. D-9 Tank Bot	Date Reported:	07-03-97
Laboratory Number:	B580	Date Sampled:	06-30-97
Chain of Custody No:	5280	Date Received:	07-01-97
Sample Matrix:	Soil	Date Extracted:	07-01-97
Preservative:	Cool	Date Analyzed:	07-02-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

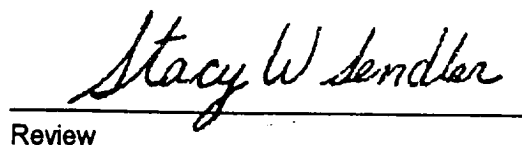
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.2	0.2
Diesel Range (C10 - C28)	328	0.1
Total Petroleum Hydrocarbons	329	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla Pits.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location			ANALYSIS/PARAMETERS									
Robby Production			TICARELLA PITS												
Sampler: (Signature) <i>B. J. Salzman</i>			Chain of Custody Tape No. 96300-44												
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks									
AMERADA JIC.	6-30-97	09:10	B573	SOIL	1	all samples received cool & intact at									
#2 LAND FORM	"	"	B574		1										
#4 LAND FORM	"	09:20	B574		1										
#3 TANK SIDES	"	09:50	B575		1										
"	"	"			1										
#3 TANK BOT.	"	09:55	B576		1										
"	"	"			1										
#3 SEP. SIDES	"	10:00	B572		1										
"	"	"			1										
#3 SEP. BOT	"	10:05	B578		1										
CHACON JIC.	"	11:10	B579		1										
#9 TANK SIDES	"	11:15	B580		1										
#9 TANK BOT.	"	"			1										
"	"	"			1										
D-2 LAND FORM	"	10:30	B581		1										
Relinquished by: (Signature) <i>B. J. Salzman</i>			Date	Time	Received by: (Signature) <i>Alfonso L. Olivera</i>						Date	Time			
Relinquished by: (Signature)			7-1-97	09:15							7-1-97	09:15			
Relinquished by: (Signature)															
Relinquished by: (Signature)					Received by: (Signature)										

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

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

ON-SITE SOIL REMEDIATION REPORT

Operator: Roddy Production Telephone: (505) 325-5750 1 2 10.3

Address: P.O. Box 2221, Farmington, NM 87499

Facility or Well Name: Chacon Jicarilla Apache D-9 DIST. 3

Location: Unit or Qtr/Qtr Sec O Sec 23 T 23N R 3W County Sandoval

Land Type: Range

Date Remediation Started: July 1999 Date Completed: September 1999

Remediation Method: Landfarmed X Approx. cubic yards 85

Composed

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

RANKING SCORE
(TOTAL POINTS): 0

Final Closure Sampling:

Sampling Date: 9/14/99 Time: 13:15

Sample Results:

Field Headspace (ppm) 15.8

TPH (ppm) 255 Method 8015

Other:

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

DATE: October 4, 1999 PRINTED NAME B.W. Salzman

SIGNATURE B.W. Salzman AND TITLE Agent

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

APPROVED: YES X NO (REASON)

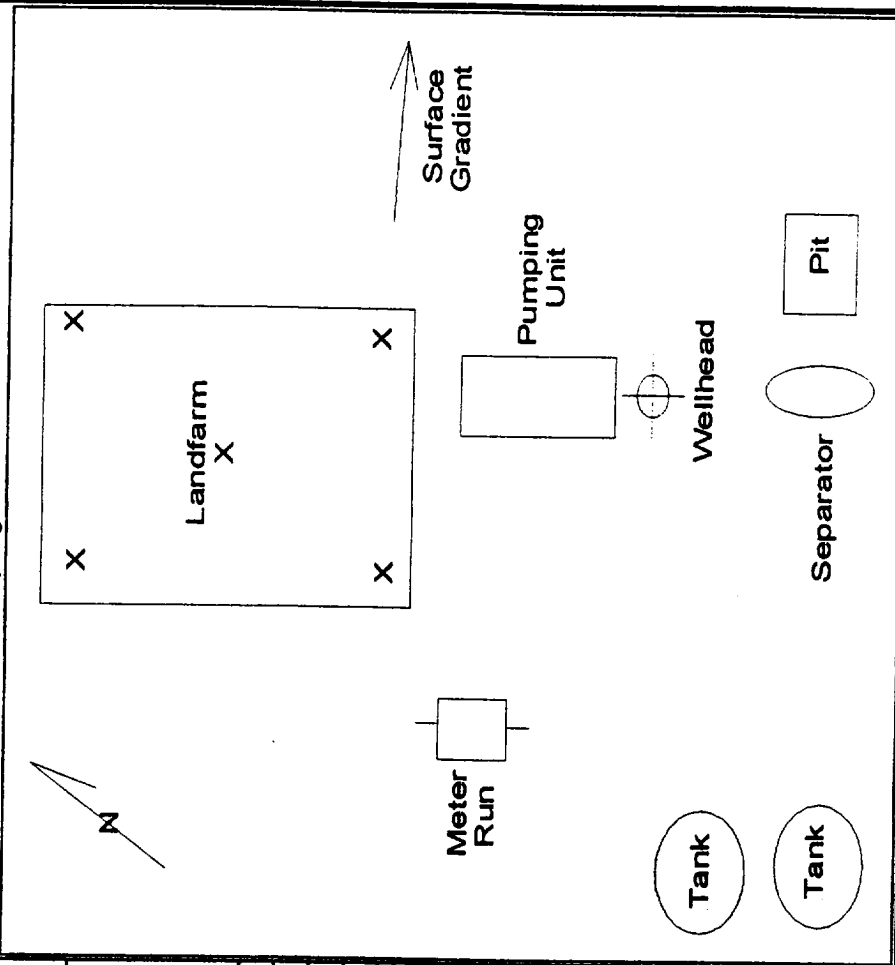
SIGNED: K. C. M. O. DATE: 10-20-99

Client : Roddy Production

Date Started : July 1997 Date Completed : September 1999

Location: <u>Chacon Jicarilla Apache D-9</u>			
Quad: <u>O</u>	Section: <u>23</u>		
Township: <u>23 N</u>	Range: <u>3 W</u>		
Pits:	Separator and Tank	Sample #	Location
		1	Comp 1
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
Reference:	50 feet northwest of wellhead		OVM
			15.8
Size:	Approximately 120' x 70' x 6" deep		
Yds:	85 cubic yards		
1	5 - Point Composite(s)		

Overview of Landfarm and Sampling :



Comments: A sample from composite # 1 was sent to Envirotech for TPH 8015 analysis.

Ranking Score : 0 Closure Standard : 5000 ppm

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

September 17, 1999

Mr. Brad Salzman
Roddy Production Company
P.O. Box 2221
Farmington, New Mexico 87499

Project No.: 99063
Job No.: 906301

Dear Mr. Salzman,

Enclosed are the analytical results for the samples collected from the location designated as "Jicarilla Land Farms". Two soil samples were collected by Roddy Production Company designated personnel on 09/14/99, and delivered to the Envirotech laboratory on 09/15/99 for Total Petroleum Hydrocarbons (TPH) analysis per USEPA Method 8015 Modified.

The samples were documented on Envirotech Chain of Custody No. 7342 and assigned Laboratory Nos. G076 (JAT D-9) and G077 (JAT D-10) for tracking purposes. The samples were extracted and analyzed on 09/16/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.



Stacy W. Sandler
Environmental Scientist/Laboratory Manager

enclosure

SWS/sws/99063/906301.lb3/wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

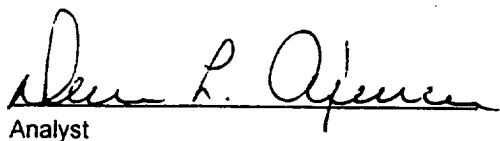
Client:	Roddy Proc. Co.	Project #:	906301
Sample ID:	JAT D-9	Date Reported:	09-16-99
Laboratory Number:	G076	Date Sampled:	09-14-99
Chain of Custody No:	7342	Date Received:	09-15-99
Sample Matrix:	Soil	Date Extracted:	09-16-99
Preservative:	Cool	Date Analyzed:	09-16-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

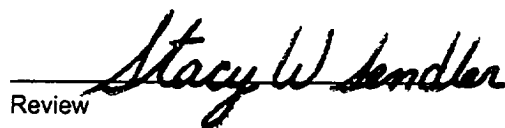
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	8.8	0.2
Diesel Range (C10 - C28)	246	0.1
Total Petroleum Hydrocarbons	255	0.2

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 Land Farms.


Analyst


Review

7342

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615