

DUTY OIL & GAS INSPECTOR

FEB 03 1999

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

SUBMIT COPY TO
NATURAL RESOURCES DEPT
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: Williams Production Company Telephone: 918-561-6250

Address: P.O.Box 3102, MS 37-4 Tulsa Ok. 74101

Facility or Well Name: INDIAN #1 MV

Location: Unit or Qtr/Qtr Sec D Sec 27 T28N R3W County RIO ARriba

Pit Type: Separator___ Dehydrator___ Other PRODUCTION

and Type: JICARILLA APACHE RESERVATION

Pit Location: Pit dimensions: length 38', width 25', depth 3'
(Attach diagram)

Reference: wellhead____, other_____

Footage from reference: _____

Direction from reference: _____ Degrees _____ East North _____
 _____ 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
30 feet in width)

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

Distance to Nearest Lake, Playa, or Watering Pond Less than 100 feet
 (Downgradient lakes, playas and Greater than 100 feet
 livestock or wildlife watering ponds)

d. 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:

distance to perennial
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) ☐

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8/24/98 Date Completed: 8/24/98
Remediation Method: Excavation X Approx. cubic yards 170
(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: On-site landfarming

Groundwater Encountered: No X Yes _____ Depth _____

*** Please see attached diagram for this section***

Final Pit: Sample location _____
Closure Sampling: Indian #1 MV
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 11' / side walls
Sample date 8/24/98 & 9/3/98 Sample time _____

Sample Results

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

Groundwater 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 10/1/98 PRINTED NAME Don Fernald
SIGNATURE [Signature] AND TITLE Project Manager

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: [Signature] DATE: 10/6/98

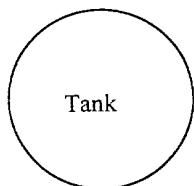
Drawing not to scale.

X=Wall Samples

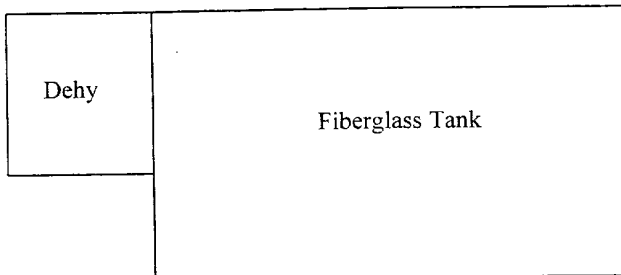
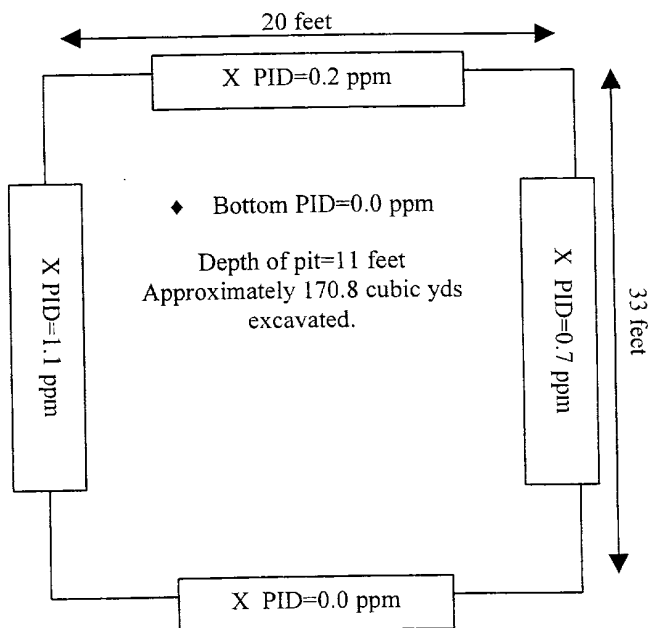
◆=Bottom Sample



- Wall Samples Collected on 8/24/98
- Bottom Sample Collected on 9/3/98:
11 feet bgs



Tank



Indian I #1 MV

OFF: (505) 325-5667



LAB: (505) 325-1556

September 25, 1998

Scott Pope
Philip Environmental
4000 Monroe Road
Farmington, NM 87401
TEL: (505) 326-2262
FAX (505) 326-2388

RE: 18684 1000-7.7

Order No.: 9809016

Dear Scott Pope,

On Site Technologies, LTD. received 1 sample on 9/10/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

- BTEX (SW8020A)
- Diesel Range Organics (SW8015)
- Gasoline Range Organics (SW8015)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "D Cox", written in a cursive style.

David Cox

P.O. BOX 2606 • FARMINGTON, NM 87499

Technology Bridging Industry with the Environment

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: Philip Environmental

Project: 18684 1000-7.7

Lab Order: 9809016

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client: Philip Environmental
Work Order: 9809016
Lab ID: 9809016-01A **Matrix:** SOIL
Project: 18684 1000-7.7

Client Sample Info: Williams Production Pits
Client Sample ID: Indian I#1 Bottom
Collection Date: 9/3/98 3:02:00 PM
COC Record: C2291

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/18/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/14/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	1		µg/Kg	1	9/17/98
Toluene	ND	2		µg/Kg	1	9/17/98
Ethylbenzene	ND	1		µg/Kg	1	9/17/98
m,p-Xylene	ND	2		µg/Kg	1	9/17/98
o-Xylene	ND	1		µg/Kg	1	9/17/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY REPORTING IN ACCORDANCE WITH THE EPCRA REQUIREMENT -



(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2291

Received By:

Relinquished by:

Samples Iced: ☒ Yes ☐ No		Carrier:	Airbill No.
Preservatives (ONLY for Water Samples)			
☐ Cyanide	Sodium hydroxide (NaOH)		
☐ Volatile Organic Analysis	Hydrochloric acid (HCl)		
☐ Metals	Nitric acid (HNO ₃)		
☐ TPH (418.1)	Sulfuric acid (H ₂ SO ₄)		
☐ Other (Specify)			
☐ Other (Specify)			
		Shipping and Lab Notes:	

OFF: (505) 325-5667



LAB: (505) 325-1556

September 10, 1998

Don Fernald
Philip Environmental
4000 Monroe Road
Farmington, NM 87401
TEL: (505) 326-2262
FAX (505) 326-2388

RE: 18684 1000.77

Order No.: 9809005

Dear Don Fernald,

On Site Technologies, LTD. received 1 sample on 9/2/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

- BTEX (SW8020A)
- Diesel Range Organics (SW8015)
- Gasoline Range Organics (SW8015)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in dark ink, appearing to read "David Cox", written in a cursive style.

David Cox

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 10-Sep-98

CLIENT: Philip Environmental

Project: 18684 1000.77

Lab Order: 9809005

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Sep-98

Client:	Philip Environmental	Client Sample Info:	Williams Prod. Pit
Work Order:	9809005	Client Sample ID:	Indian I #1
Lab ID:	9809005-01A	Matrix:	SOIL
Project:	18684 1000.77	Collection Date:	8/24/98 12:01:00 PM
		COC Record:	C2292

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/4/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/3/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	1		µg/Kg	1	9/3/98
Toluene	ND	2		µg/Kg	1	9/3/98
Ethylbenzene	ND	1		µg/Kg	1	9/3/98
m,p-Xylene	ND	2		µg/Kg	1	9/3/98
o-Xylene	ND	1		µg/Kg	1	9/3/98

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Chain of Custody Record

(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2292

Relinquished by:

Received By:

Signature	Date	Time	Signature	Date	Time
Steve Archuleta	8-24-98	12:01 PM	Steve Archuleta	9-2-98	
Steve Archuleta			[Signature]	9/2/98	1551

Samples Iced: ☒ Yes ☐ No	Carrier:	Airbill No.
Preservatives (ONLY for Water Samples)		
☐ Cyanide	Sodium hydroxide (NaOH)	
☐ Volatile Organic Analysis	Hydrochloric acid (HCl)	
☐ Metals	Nitric acid (HNO ₃)	
☐ TPH (418.1)	Sulfuric acid (H ₂ SO ₄)	
☐ Other (Specify) _____		
☐ Other (Specify) _____		
Shipping and Lab Notes:		

8-24-98

Met Hertz with Truck Hoe at 9:30
11.7 hrs on Hoe when delivered.

Indian I#1

Initial pit dimensions are

$20 \times 33 \times 4 = 97.7 \text{ yrd or } 98 \text{ yds.}$

Got started digging on pit at 11:00 AM.

JVJ Construction was fixing road when
we arrived with Truck hoe.

- Got initial reading out of center
of pit 4' beneath bottom of pit.
reading was 74ppm.

- Had to disconnect (1/2" line running
from tank to fiberglass tank.
went across one corner of pit.

- Ending dimensions of pit

$20 \times 33 \times 11 = 2668 - 98 = 170.8$

South wall 0.0 West 1.1

North wall 0.2

Bottom 0.0 (9-3-98) (got sample)

East wall 6.7 Composite of bottom

West wall 0.0 headspace 0.0
Composite

Williams Prod.

Indian I MV #1

Fiberglass Tank west of pit.

Dehy west of pit.

Tank North of pit.

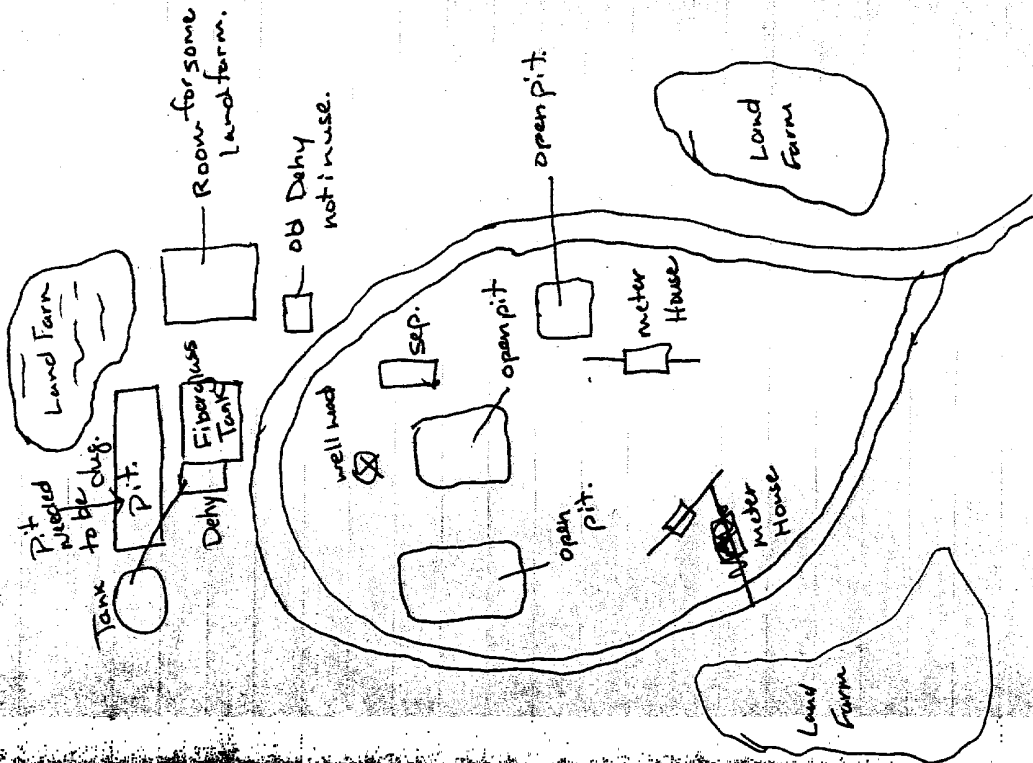
3 open pits with no fencing 10 to 15 feet deep.

Land farms all around location

Road washed out about .5 mile before location.

very little room for landfarm. 20x20 is all.

Indian I MV #1



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

SUBMIT TO: BY TO:
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>WILLIAMS PRODUCTION COMPANY</u>		Telephone: <u>918-561-6250</u>	
Address: <u>P.O. BOX 3102, MS 37-4 TULSA, OK. 74101</u>			
Facility or Well Name: <u>INDIAN I#1 MV</u>			
Location: Unit or Qtr/Qtr Sec <u>D</u> Sec <u>27</u> T <u>28N</u> R <u>3W</u> County <u>RIO ARriba</u>			
Land Type: <u>JICARILLA APACHE RESERVATION</u>			
Date Remediation Started: <u>8/24/98</u>		Date Completed: <u>9/30/98</u>	
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>170</u>	
Composted <u> </u>			
Other <u> </u>			
Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>0</u>		Sampling Date: <u>9/30/98</u> Time: <u>1020</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>		Sample Results:	
Wellhead Protection Area: (pts.) <u>0</u>		Field Headspace (ppm) <u>12.6</u>	
Distance To Surface Water: (pts.) <u>0</u>		TPH (ppm) <u>1400</u> Method <u>8015</u>	
RANKING SCORE (TOTAL POINTS): <u>0</u>		Other <u>BTEX METHOD 8020</u>	
		<u>ND</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>11/19/98</u>		PRINTED NAME <u>ROBERT THOMPSON</u>	
SIGNATURE <u>Robert Thompson</u>		AND TITLE <u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.			
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u>Cannot use as backfill.</u>			
SIGNED: <u>Karena L. Callado</u>		DATE: <u>11/23/98</u>	

OFF: (505) 325-5667



LAB: (505) 325-1556

October 14, 1998

Don Fernald
Philip Environmental
4000 Monroe Road
Farmington, NM 87401
TEL: (505) 326-2262
FAX (505) 326-2388

RE: 18684 3500.77 (1200.77)

Order No.: 9810002

Dear Don Fernald,

On Site Technologies, LTD. received 2 samples on 10/1/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)
Diesel Range Organics (SW8015)
Gasoline Range Organics (SW8015)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "D Cox", is positioned above the printed name.

David Cox

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 14-Oct-98

CLIENT: Philip Environmental
Project: 18684 3500.77 (1200.77)
Lab Order: 9810002

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-Oct-98

Client: Philip Environmental
Work Order: 9810002
Lab ID: 9810002-01A **Matrix:** SOIL
Project: 18684 3500.77 (1200.77)

Client Sample Info: Williams Production Pits
Client Sample ID: Indian J#1 Landfarm
Collection Date: 9/30/98 10:20:00 AM
COC Record: C2284

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	1400	25		mg/Kg	1	10/9/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	10/7/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/Kg	1	10/8/98
Toluene	ND	2		µg/Kg	1	10/8/98
Ethylbenzene	ND	1		µg/Kg	1	10/8/98
m,p-Xylene	ND	2		µg/Kg	1	10/8/98
o-Xylene	ND	1		µg/Kg	1	10/8/98

Qualifiers:
PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BRIDGING INDUSTRY WITH THE ENVIRONMENT -



(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2284

[illegible]

Samples Iced: ☒ Yes ☐ No		Carrier: Shipping and Lab Notes:	Airbill No.
Preservatives (ONLY for Water Samples) ☐ Cyanide Sodium hydroxide (NaOH) ☐ Volatile Organic Analytes Hydrochloric acid (HCl) ☐ Metals Nitric acid (HNO ₃) ☐ TPH (418.1) Sulfuric acid (H ₂ SO ₄) ☐ Other (Specify) _____ ☐ Other (Specify) _____			

9/30/98 .

INSTRON I 18684 1200.77

Drove to location check with PED

The Reading are on the map the
Composite Reading was 12.6 PPM Time
1020

