NM1 - 15

MONITORING REPORTS

YEAR(S):

1999-1996

RHINO
Environmental Services, Inc.
P.O. Box 25547 • Albuquerque, New Mexico 87125
Phone (505) 247-4646 • Fax (505) 797-4874
5 County Road 6065 • Farmington, New Mexico 87401
(505)598-9626 • Fax (505) 598-9627

August 27, 1999

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

Re: Goo-Yea Landfarm Facility:
Quarterly Report - August 1999

Dear Ms. Kieling:

In accordance with the conditions set forth in the permit, enclosed please find the August 1999 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

No soils were accepted into the facility for this past quarter, therefore, the soil log is not part of this report. One native soil sample was retrieved from each active treatment area, Cells 1, 2, 3 and 4. All samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of sample collection. The analytical results are summarized in Table one (1). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted November, 1999. Please call me if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

Attachments

CC: Ms. Donna Williams
OCD, District - 1
P.O. Box 1908
Hobbs, New Mexico 88241-1980

MJK 9-10-99

TABLE NO. 1 - Analytical Results

Quarterly Native Soil Sampling:

One native soil sample was retrieved from Cell 1, Cell 2, Cell 3 and Cell 4. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1, Cell 2, Cell 3 and Cell 4 samples were submitted for analysis by EPA method 418.1 and EPA method 8020. The analytical results are summarized in Table No. 1.

TABLE NO. 1
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10			
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	22			

Analyses for Cells 1, 2, 3 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred.

Although Cell 4 does demonstrate trace levels of TPH are present, the concentration of 22 mg/kg does not represent a number of concern and the contamination was more than likely due to careless collection procedures. However, Rhino has made a note of this and will continue to carefully monitor this cell.

RHINO ENVIRONMENTAL SERVICES, INC.

FIGURE No. 1 - SITE MAP

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Each cell is approximately 5 acres in size.

N
↑
S

Cell 1 X	Cell 2 X	Cell 3 X	Cell 4 X	Cell 5

X denotes sample collection location

Not to Scale

APPENDIX A - ANALYTICAL RESULTS

ANACHEM INC.
8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

August 24, 1999

Ms. Daniele Berardelli
Rhino Env. - Farmington
5 CR 6065

Farmington, NM 87401
TEL: 800-499-8393 FAX: 505-392-9376

Work Order: 9908368
Project: GooYea 08/99

Dear Client:

Anachem, Inc. received 4 samples on 08/20/1999 for the analyses presented in the following report.

The samples were analyzed for the following tests:

BTEX by EPA 8021 - Solid
Methanol Sample Container Charge
TPH by EPA 418.1 - Solid

Respectfully Submitted,
Anachem, Inc.

Howard H. Hayden, B.S.
Chemist

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned. The use of our name and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

Anachem, Inc.

Date: *24-Aug-99*

CLIENT: Rhino Env. - Farmington
Work Order: 9908368
Project: GooYea 08/99

Analyses	Result	Limit	Units	Date Analyzed
Lab ID: 9908368-01A				
Client Sample ID: Cell 1 & 1-A		**Collection Date:**	8/19/99	
Location: Lea County, NM		**Matrix:**	SOIL	
9908368-01A **BTEX BY EPA 8021 - SOLID**			**Prep Date**	Analyst: **AT**
Benzene	ND	0.4	mg/Kg	8/20/99
Toluene	ND	0.5	mg/Kg	8/20/99
Ethylbenzene	ND	0.5	mg/Kg	8/20/99
Xylenes, Total	ND	0.5	mg/Kg	8/20/99
9908368-01A **TPH BY EPA 418.1 - SOLID**			**Prep Date** 8/24/99	Analyst: **AT**
Petroleum Hydrocarbons, TR	ND	10	mg/Kg	8/24/99
Lab ID: 9908368-02A				
Client Sample ID: Cell 2 & 2-A		**Collection Date:**	8/19/99	
Location: Lea County, NM		**Matrix:**	SOIL	
9908368-02A **BTEX BY EPA 8021 - SOLID**			**Prep Date**	Analyst: **AT**
Benzene	ND	0.4	mg/Kg	8/20/99
Toluene	ND	0.5	mg/Kg	8/20/99
Ethylbenzene	ND	0.5	mg/Kg	8/20/99
Xylenes, Total	ND	0.5	mg/Kg	8/20/99
9908368-02A **TPH BY EPA 418.1 - SOLID**			**Prep Date** 8/24/99	Analyst: **AT**
Petroleum Hydrocarbons, TR	ND	10	mg/Kg	8/24/99
Lab ID: 9908368-03A				
Client Sample ID: Cell 3 & 3-A		**Collection Date:**	8/19/99	
Location: Lea County, NM		**Matrix:**	SOIL	
9908368-03A **BTEX BY EPA 8021 - SOLID**			**Prep Date**	Analyst: **AT**
Benzene	ND	0.4	mg/Kg	8/20/99
Toluene	ND	0.5	mg/Kg	8/20/99
Ethylbenzene	ND	0.5	mg/Kg	8/20/99
Xylenes, Total	ND	0.5	mg/Kg	8/20/99
9908368-03A **TPH BY EPA 418.1 - SOLID**			**Prep Date** 8/24/99	Analyst: **AT**
Petroleum Hydrocarbons, TR	ND	10	mg/Kg	8/24/99

Qualifiers: ND - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank

Anachem, Inc.

Date: *24-Aug-99*

CLIENT: Rhino Env. - Farmington
Work Order: 9908368
Project: GooYea 08/99

Analyses	Result	Limit	Units	Date Analyzed
Lab ID:	9908368-04A			
Client Sample ID:	Cell 4 & 4-A	**Collection Date:**	8/19/99	
Location:	Lea County, NM	**Matrix:**	SOIL	
9908368-04A	**BTEX BY EPA 8021 - SOLID**		**Prep Date**	**Analyst: AT**
Benzene	ND	0.4	mg/Kg	8/20/99
Toluene	ND	0.5	mg/Kg	8/20/99
Ethylbenzene	ND	0.5	mg/Kg	8/20/99
Xylenes, Total	ND	0.5	mg/Kg	8/20/99
9908368-04A	**TPH BY EPA 418.1 - SOLID**		**Prep Date** 8/24/99	**Analyst: AT**
Petroleum Hydrocarbons, TR	22	10	mg/Kg	8/24/99

Qualifiers: ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Anachem, Inc.

Date: 24-Aug-99

CLIENT: Rhino Env. - Farmington
Work Order: 9908368
Project: GooYea 08/99

QC SUMMARY REPORT

TPH by EPA 418.1 - Solid Units: **mg/Kg** Analysis Date **8/24/99**

Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Petroleum Hydrocarbons, TR		146	150			2.7%	

Anachem, Inc.

Date: 24-Aug-99

CLIENT: Rhino Env. - Farmington
Work Order: 9908368
Project: GooYea 08/99

QC SUMMARY REPORT

BTEX by EPA 8021 - Solid Units: mg/Kg Analysis Date 8/20/99

Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	100	116.0%	110.0%	60%	140%	5.3%	30
Ethylbenzene	100	107.0%	107.0%	60%	140%	0.0%	30
Toluene	100	115.0%	108.0%	60%	140%	6.3%	30
Xylenes, Total	300	110.0%	108.0%	60%	140%	1.8%	30

THE REPRODUCTION OF

THE

FOLLOWING

DOCUMENT (S)

CANNOT BE IMPROVED

DUE TO

THE CONDITION OF

THE ORIGINAL

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: Daniela Berardilla	Bill To: (Buyer) Rhino Environmental
Company: Rhino Environmental	Purchase Order #:
Address: SCR 6005	Address: PO Box 25547
City, State, Zip: Farmington, NM 87401	City, State, Zip: Alb. NM 87125
Phone: 505 598-9628 Fax: -9607	Phone: 505 247 1646 Fax: 87-1671
Project Name: Gomez 08199	Quote #:
Project Location: Lea County	City, State: NM
Date Due:	Rush: (0%) 25% 50% 100% Sampled By: D. Berardilla

Analysis: TPH 418.1 | BTEX

Lab#	Client Sample ID	Matrix	Date/Time	Sample Notes	TPH 418.1	BTEX
	1. Cell 1	Soil	8-19-99 /1032	ice	✓	
	2. Cell 1 - R		/1032	ice/methanol		✓
	3. Cell 2		/1042	ice	✓	
	4. Cell 2 - R		/1042	ice/methanol		✓
	5. Cell 3		/1053	ice	✓	
	6. Cell 3 - R		/1053	ice/methanol		✓
	7. Cell 4		8-20-99 /1101	ice	✓	
	8. Cell 4 - R		/1101	ice/methanol		✓
	9.					
	10.					

Relinquished By	Date	Time	Received By	Date	Time
[signature]	8-19-99	1637			

Sample Receipt Notes
Temperature
Preserved Properly
COC Seals Intact
Method of Shipment

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal ✓
Accept Returned Sample ___

Submission #

010 REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

RHINO
Environmental Services, Inc.
P.O. Box 25547 • Albuquerque, New Mexico 87125
Phone (505) 247-4646 • Fax (505) 797-4874
5 County Road 6065 • Farmington, New Mexico 87401
(505)598-9626 • Fax (505) 598-9627

May 25, 1999

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

Re: Goo-Yea Landfarm Facility:
Quarterly Report - May 1999

Dear Ms. Kieling:

In accordance with the conditions set forth in the permit, enclosed please find the May 1999 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

No soils were accepted into the facility for this past quarter, therefore, the soil log is not part of this report. One native soil sample was retrieved from each active treatment area, Cells 1, 2, 3 and 4. All samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of sample collection. The analytical results are summarized in Table one (1). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted August, 1999. Please call me if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

Attachments

CC: Ms. Donna Williams
OCD, District - 1
P.O. Box 1908
Hobbs, New Mexico 88241-1980

6-3-99
MM

TABLE NO. 1 - Analytical Results

Quarterly Native Soil Sampling:

One native soil sample was retrieved from Cell 1, Cell 2, Cell 3 and Cell 4. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1, Cell 2, Cell 3 and Cell 4 samples were submitted for analysis by EPA method 418.1 and EPA method 8020. The analytical results are summarized in Table No. 1.

TABLE NO. 1
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10			
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			

Analyses for Cells 1, 2, 3 and 4 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred.

RHINO ENVIRONMENTAL SERVICES, INC.

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Each cell is approximately 5 acres in size.

N
↑
S

Cell 1	Cell 2	Cell 3	Cell 4	Cell 5
X	X	X	X	

X denotes sample collection location

Not to Scale

APPENDIX A - ANALYTICAL RESULTS

ANACHEM INC.
8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9886 • 1-800-966-1186

Customer Name: Rhino Env. - Farmington
Date Received: May 19, 1999 at 10:00:00
Date Reported: May 24, 1999
Submission #: 9905000286
Project: GOOYEA 0299

SAMPLES The submission consisted of 4 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:
* BTEX (EPA 8021)
* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO
* TPH (EPA 418.1)

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

Submission #: 9905000286 lims

138724 to 138727

Client Name: Rhino Env. - Farmington
Submission #: 9905000286
Project Name: GOOYEA 0299
Report Date: 05/24/99

Client Sample #: CELL 1 & 1-A
Laboratory ID #: 138724 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Vial,4oz Glass Jar\Aqua Lid*
Sampling Location: *GOOYEA, LEA CO., NM*
Sampling Date : *05/17/99*

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 05/19/99

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: CELL 2 & 2-A
Laboratory ID #: 138725 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Vial,4oz Glass Jar\Aqua Lid*
Sampling Location: *GOOYEA, LEA CO., NM*
Sampling Date : *05/17/99*

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 05/19/99

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: CELL 3 & 3-A
Laboratory ID #: 138726 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Vial,4oz Glass Jar\Aqua Lid*
Sampling Location: *GOOYEA, LEA CO., NM*
Sampling Date : *05/17/99*

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 05/19/99

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Name: Rhino Env. - Farmington
Submission #: 9905000286
Project Name: GOOYEA 0299
Report Date: 05/24/99

Client Sample #: CELL 4 & 4-A
Laboratory ID #: 138727 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Vial,4oz Glass Jar\Aqua Lid*
Sampling Location: *GOOYEA, LEA CO., NM*
Sampling Date : *05/17/99*

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 05/19/99

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Report To: Rhino Environmental
Lab Number: 9905000286
Page 4 of 4

Project: GOOYEA 0299

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8021	Anthony Taylor	Solid	5/19/99	5/19/99

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	111	117	80-120	5.1	20.0
Toluene	100 ppb	103	110	80-120	6.4	20.0
Ethyl Benzene	100 ppb	106	110	80-120	3.6	20.0
Xylenes	300 ppb	103	108	80-120	4.6	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	136	134	1.5

CONCENTRATION UNITS: TPH - ppm

DETECTION LIMITS: TPH - 10

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	5/19/99	5/19/99

Purchase Order/Chain Of Custody

Page ___ of ___.

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: DAWIES BERARDELLI	Bill To: (Buyer) RHINO
Company: RHINO	Purchase Order #:
Address: 5 CR 6065	Address: P.O. BOX 25547
City, State, Zip: FARMINGTON NM 87401	City, State, Zip: ALBQ, NM 87125
Phone: 505-598-9626 Fax: 9627	Phone: 800-762-0241 Fax: 505-797-4874
Project Name: BOOTLEG 0299	Quote #:
Project Location: BOOTLEG	City, State: LEA CO., NM
Date Due:	Rush: (0%) 25% 50% 100% Sampled By: ALLEN HODGE

Lab#	Client Sample ID	Matrix	Date/Time	Sample Notes	Analysis: TPH (418.1)	Analysis: BTEX (8020)
138724	1. CELL 1	SOIL	5/14/99 1300	ICE	X	
↓	2. CELL 1-A		1515	ICE/MeOH		X
138725	3. CELL 2		1330	ICE	X	
↓	4. CELL 2-A		1340	ICE/MeOH		X
138726	5. CELL 3		1400	ICE	X	
↓	6. CELL 3-A		1415	ICE/MeOH		X
138727	7. CELL 4		1445	ICE	X	
↓	8. CELL 4-A		1455	ICE/MeOH		X
	9.					
	10.					

Relinquished By	Date	Time	Received By	Date	Time
	5-17-99	17:00		5/19/99	10:00

Sample Receipt Notes
Temperature
Preserved Properly
COC Seals Intact
Method of Shipment

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal ____
Accept Returned Sample ____

Submission # 9905-286

OTO REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

RHINO
Environmental Services, Inc.

P.O. Box 25547 • Albuquerque, New Mexico 87125
Phone (505) 247-4646 • Fax (505) 797-4874
5 County Road 6065 • Farmington, New Mexico 87401
(505)598-9626 • Fax (505) 598-9627

February 25, 1999

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

Re: Goo-Yea Landfarm Facility:
Quarterly Report - February 1999

Dear Ms. Kieling:

In accordance with the conditions set forth in the permit, enclosed please find the February 1999 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

No soils were accepted into the facility for this past quarter, therefore, the soil log is not part of this report. One native soil sample was retrieved from each active treatment area, Cells 1, 2, 3 and 4. All samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of sample collection. The analytical results are summarized in Table one (1). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted May, 1999. Please call me if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

Attachments

CC: Ms. Donna Williams
OCD, District - 1
P.O. Box 1908
Hobbs, New Mexico 88241-1980

TABLE NO. 1 - Analytical Results

Quarterly Native Soil Sampling:

One native soil sample was retrieved from Cell 1, Cell 2, Cell 3 and Cell 4. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1, Cell 2, Cell 3 and Cell 4 samples were submitted for analysis by EPA method 418.1 and EPA method 8020, RCRA Total Metals and General Chemistry. The analytical results are summarized in Table No. 1.

TABLE NO. 1
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	< 1.00 Arsenic 19.9 Barium < 0.12 Cadmium 1.28 Chromium 3.68 Lead < 2.00 Selenium < 1.00 Silver	48.0 Alkalinity, Total 58.6 Bicarbonate Ion 21.1 Calcium <1.0 Carbonate Ion 7.42 Chloride 13.9 Magnesium 0.025 Mercury 17.6 Potassium 22.6 Sodium 25.0 Sulfate	5.8
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	3.48 Arsenic 124 Barium < 0.12 Cadmium 0.72 Chromium < 1.48 Lead < 2.00 Selenium < 1.00 Silver	192 Alkalinity, Total 234 Bicarbonate Ion 93.6 Calcium <1.0 Carbonate Ion 4.16 Chloride 14.9 Magnesium <0.02 Mercury 7.02 Potassium 18.6 Sodium 74.6 Sulfate	7.7
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	< 1.00 Arsenic 96.4 Barium < 0.12 Cadmium 1.68 Chromium < 1.48 Lead < 2.00 Selenium < 1.00 Silver	108 Alkalinity, Total 132 Bicarbonate Ion 103 Calcium <1.0 Carbonate Ion 2.15 Chloride 30.7 Magnesium <0.02 Mercury 7.74 Potassium 11.9 Sodium 16.3 Sulfate	7.7

TABLE NO. 1, Continued
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	<1.00 Arsenic 8.84 Barium <0.12 Cadmium 2.12 Chromium 3.52 Lead <2.00 Selenium <1.00 Silver	132 Alkalinity, Total 160 Bicarbonate Ion 370 Calcium <1.0 Carbonate Ion 71.0 Chloride 184 Magnesium <0.02 Mercury 22.9 Potassium 352 Sodium 2020 Sulfate	7.0

Analyses for Cells 1, 2, 3 and 4 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred.

RHINO ENVIRONMENTAL SERVICES, INC.

FIGURE No. 1 - SITE MAP

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Each cell is approximately 5 acres in size.

N
↕
S

Cell 1	Cell 2	Cell 3	Cell 4	Cell 5
X	X	X	X	

X denotes sample collection location

Not to Scale

APPENDIX A - ANALYTICAL RESULTS

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env. - Farmington
Date Received: February 3, 1999 at 10:00:00
Date Reported: February 18, 1999
Submission #: 9902000070
Project: GOOYEA 0299

SAMPLES The submission consisted of 4 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:

* ALKALINITY, TOTAL (EPA 310.1)
* BICARBONATE ION (EPA 310.1)
* BTEX (EPA 8021)
* CALCIUM/Ca (EPA 200.7)
* CARBONATE ION (EPA 310.1)
* CHLORIDE (EPA 300.0)
* MAGNESIUM/Mg (EPA 200.7)
* MERCURY DIGESTION (EPA 7470)
* MERCURY/Hg BY COLD VAPOR (EPA 7471)
* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO
* MICROWAVE DIGESTION (EPA 3015) LIQUID
* MICROWAVE DIGESTION (EPA 3051) SOLID
* pH (EPA 150.1)
* POTASSIUM/K (EPA 200.7)
* SODIUM/Na (EPA 200.7)
* SULFATE (EPA 300.0)
* TOTAL RCRA METALS (EPA 6010)
* TPH (EPA 418.1)

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9902000070 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

128863 to 128866

Client Name: Rhino Env. - Farmington
Submission #: 9902000070
Project Name: GOOYEA 0299
Report Date: 02/18/99

Client Sample #: CELL 1 & 1-A
Laboratory ID #: 128863 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Glass Jar\Aqua Lid,Methanol Jar*
Sampling Location: *DP 619, LEA COUNTY, NM*
Sampling Date : *01/28/99*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**48**	1.0

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	**58.6**	1.0

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

CALCIUM/Ca (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Calcium	**21.1**	0.05

(for anion extract; total concentration: 1280 mg/kg)

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	<1.0	1.0

CHLORIDE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Chloride	**7.42**	0.1

MAGNESIUM/Mg (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Magnesium	**13.9**	1.5

(for anion extract; total concentration: 916 mg/kg)

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 02/12/99

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	**0.025**	0.02

MICROWAVE DIGESTION (EPA 3015) LIQUID
Microwave Digestion Date: 02/12/99

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 02/12/99

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**5.8**	0.05

Client Name: Rhino Env. - Farmington
Submission #: 9902000070
Project Name: GOOYEA 0299
Report Date: 02/18/99

POTASSIUM/K (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Potassium	**17.6**	0.5

(for anion extract; total concentration: 967 mg/kg)

SODIUM/Na (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Sodium	**22.6**	0.05

(for anion extract; total concentration: 40.4 mg/kg)

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	**25.0**	1.0

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<1.00	1.00
Barium	**19.9**	0.12
Cadmium	<0.12	0.12
Chromium	**1.28**	0.12
Lead	**3.68**	1.48
Selenium	<2.00	2.00
Silver	<1.00	1.00

TPH (EPA 418.1)

TPH Prep Date: 02/07/99

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: CELL 2 & 2-A

Laboratory ID #: 128864 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Glass Jar\Aqua Lid,Methanol Jar*
Sampling Location: *DP 619, LEA COUNTY, NM*
Sampling Date : *01/28/99*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**192**	1.0

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	**234**	1.0

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

CALCIUM/Ca (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Calcium	**93.6**	0.05

(for anion extract; total concentration: 4620 mg/kg)

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	<1.0	1.0

Client Name: Rhino Env. - Farmington
Submission #: 9902000070
Project Name: GOOYEA 0299
Report Date: 02/18/99

CHLORIDE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Chloride	**4.16**	0.1

MAGNESIUM/Mg (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Magnesium	**14.9**	1.5

(for anion extract; total concentration: 3660 mg / kg)

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 02/12/99

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.02	0.02

MICROWAVE DIGESTION (EPA 3015) LIQUID
Microwave Digestion Date: 02/12/99

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 02/12/99

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**7.7**	0.05

POTASSIUM/K (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Potassium	**7.02**	0.5

(for anion extract; total concentration: 1510 mg / kg)

SODIUM/Na (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Sodium	**18.6**	0.05

(for anion extract; total concentration: 225 mg / kg)

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	**74.6**	1.0

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	**3.48**	1.00
Barium	**124**	0.12
Cadmium	<0.12	0.12
Chromium	**0.720**	0.12
Lead	<1.48	1.48
Selenium	<2.00	2.00
Silver	<1.00	1.00

TPH (EPA 418.1)
TPH Prep Date: 02/07/99

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Name: Rhino Env. - Farmington
Submission #: 9902000070
Project Name: GOOYEA 0299
Report Date: 02/18/99

Client Sample #: CELL 3 & 3-A
Laboratory ID #: 128865 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Glass Jar\Aqua Lid,Methanol Jar*
Sampling Location: *DP 619, LEA COUNTY, NM*
Sampling Date : *01/28/99*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**108**	1.0

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	**132**	1.0

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

CALCIUM/Ca (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Calcium	**103**	0.05

(for anion extract; total concentration: 3970 mg/kg)

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	<1.0	1.0

CHLORIDE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Chloride	**2.15**	0.1

MAGNESIUM/Mg (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Magnesium	**30.7**	1.5

(for anion extract; total concentration: 4600 mg/kg)

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 02/12/99

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.02	0.02

MICROWAVE DIGESTION (EPA 3015) LIQUID
Microwave Digestion Date: 02/12/99

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 02/12/99

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**7.7**	0.05

Client Name: Rhino Env. - Farmington
Submission #: 9902000070
Project Name: GOOYEA 0299
Report Date: 02/18/99

POTASSIUM/K (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Potassium	**7.74**	0.5

(for anion extract; total concentration: 2580 mg/kg)

SODIUM/Na (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Sodium	**11.9**	0.05

(for anion extract; total concentration: 147 mg/kg)

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	**16.3**	1.0

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<1.00	1.00
Barium	**96.4**	0.12
Cadmium	<0.12	0.12
Chromium	**1.68**	0.12
Lead	<1.48	1.48
Selenium	<2.00	2.00
Silver	<1.00	1.00

TPH (EPA 418.1)

TPH Prep Date: 02/07/99

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: CELL 4 & 4-A

Laboratory ID #: 128866 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Glass Jar\Aqua Lid,Methanol Jar*
Sampling Location: *DP 619, LEA COUNTY, NM*
Sampling Date : *01/28/99*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**132**	1.0

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	**160**	1.0

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

CALCIUM/Ca (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Calcium	**370**	0.05

(for anion extract; total concentration: 5600 mg/kg)

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	<1.0	1.0

Client Name: Rhino Env. - Farmington
Submission #: 9902000070
Project Name: GOOYEA 0299
Report Date: 02/18/99

CHLORIDE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Chloride	**71**	0.1

MAGNESIUM/Mg (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Magnesium	**184**	1.5

(for anion extract; total concentration: 2750 mg/kg)

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 02/12/99

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.02	0.02

MICROWAVE DIGESTION (EPA 3015) LIQUID
Microwave Digestion Date: 02/12/99

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 02/12/99

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**7.0**	0.05

POTASSIUM/K (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Potassium	**22.9**	0.5

(for anion extract; total concentration: 1770 mg/kg)

SODIUM/Na (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Sodium	**352**	0.05

(for anion extract; total concentration: 784 mg/kg)

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	**2020**	1.0

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<1.00	1.00
Barium	**8.84**	0.12
Cadmium	<0.12	0.12
Chromium	**2.12**	0.12
Lead	**3.52**	1.48
Selenium	<2.00	2.00
Silver	<1.00	1.00

TPH (EPA 418.1)
TPH Prep Date: 02/07/99

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Report To: Rhino Environmental
Lab Number: 9902000070
Page 8 of 8

Project: GooYea 0299

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8021	Anthony Taylor	Solid	2/4/99	2/4/99

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	87.8	94.0	80-120	6.5	20.0
Toluene	100 ppb	90.7	90.1	80-120	0.66	20.0
Ethyl Benzene	100 ppb	89.4	98.1	80-120	8.8	20.0
Xylenes	300 ppb	83.9	82.8	80-120	1.3	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	132	130	1.5

CONCENTRATION UNITS: TPH - ppm
DETECTION LIMITS: TPH - 10

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	2/7/99	2/7/99

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Total Alkalinity	2/15/99	----	7.1	3.0	92	96
Chloride	2/8/99	----	0.231	1.7	111	107.4
Mercury	2/15/99	----	0.048	25.5	114	84
Sulfate	2/8/99	----	1.06	3.2	91.8	96
Silver	2/14/99	4.0	0.098	2.0	98.9	101.7
Arsenic	2/14/99	4.0	0.040	0.8	98.7	99.9
Chromium	2/14/99	4.0	0.057	1.2	90.3	91.9
Lead	2/14/99	4.0	0.029	0.5	96.7	97.5
Selenium	2/14/99	4.0	0.042	0.8	105.5	106.6
Barium	2/14/99	4.0	0.058	0.7	80.8	79.2
Cadmium	2/14/99	4.0	0.064	1.3	99.9	101.7

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: Danielle Berardelli	Bill To: (Buyer) Rhino
Company: Rhino	Purchase Order #: 1158
Address: 5 CR 6065	Address: P.O. Box 25547
City, State, Zip: Farmington, NM 87401	City, State, Zip: Alb., NM 87125
Phone: 505 598-9626 Fax: -9627	Phone: 5052474646 Fax: 797-4874

Project Name: Goodyear 0299 Quote #:

Project Location: Goodyear City, State: Lea County, NM

Date Due: Rush: (0%) 25% 50% 100% Sampled By:

Lab#	Client Sample ID	Matrix	Date/Time	Sample Notes	Analysis: TPH (418.1)	Total Metal-RCRA 8	Cation/Anion	BTEX (8021)				
128863	1. Cell 1	Soil		ice	X	X	X					
↓	2. Cell 1-A			ice/methanol				X				
128864	3. Cell 2			ice	X	X	X					
↓	4. Cell 2-A			ice/methanol				X				
128865	5. Cell 3			ice	X	X	X					
↓	6. Cell 3-A			ice/methanol				X				
128866	7. Cell 4			ice	X	X	X					
↓	8. Cell 4-A	↓		ice/methanol				X				
	9.											
	10.											

Relinquished By	Date	Time	Received By	Date	Time
[signature]	1/29	1:30	Shad Thornhill	2/3/99	10:00

Sample Receipt Notes	
Temperature	4°C
Preserved Properly	
COC Seals Intact	
Method of Shipment	

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal ✓
Accept Returned Sample ____

Submission # 9902-70

OTO REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

RHINO
Environmental Services, Inc.

P.O. Box 25547 • Albuquerque, New Mexico 87125
Phone (505) 247-4646 • Fax (505) 797-4874
5 County Road 6065 • Farmington, New Mexico 87401
(505)598-9626 • Fax (505) 598-9627

DEC 18 [illegible]

December 14, 1998

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

RECEIVED
DEC 2 1998
Environmental Bureau
Oil Conservation Division

Re: Goo-Yea Landfarm Facility:
Quarterly Report - November 1998

Dear Ms. Kieling:

In accordance with the conditions set forth in the permit, enclosed please find the November 1998 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

No soils were accepted into the facility for this past quarter, therefore, the soil log is not part of this report. One native soil sample was retrieved from each active treatment area, Cells 1, 2, 3 and 4. All samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of sample collection. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted February, 1999. Rhino apologizes for the tardiness of this report. Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

Attachments

TABLE 1 - SOIL AND WATER LOG

DISCHARGE PLAN DP-619
QUARTERLY REPORT
November 1998

Soil accepted from August 1, 1998 to October 31, 1998

A total of 84 cubic yards (cy) of soil were received during this quarter. A list of these soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

DATE	VOLUME	SOURCE	TYPE	SECTION
8/14/98	84 cy	Sierra Well Service 2726 Lovington Hwy. Hobbs, NM	Oilfield/ Non-Exempt	Cell 3

TABLE NO. 2 - Analytical Results

Quarterly Native Soil Sampling:

One native soil sample was retrieved from Cell 1, Cell 2, Cell 3 and Cell 4. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1, Cell 2, Cell 3 and Cell 4 samples were submitted for analysis by EPA method 418.1 and EPA method 8020. The analytical results are summarized in Table No. 1.

TABLE NO. 1
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10

Analyses for Cells 1, 2, 3 and 4 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred.

RHINO ENVIRONMENTAL SERVICES, INC.

FIGURE No. 1 - SITE MAP

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Each cell is approximately 5 acres in size.

N
↑
S

Cell 1 X	**Cell 2** X	**Cell 3** X	**Cell 4** X	**Cell 5**

X denotes sample collection location

Not to Scale

APPENDIX A - ANALYTICAL RESULTS

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env. - Farmington
Date Received: December 1, 1998 at 10:00:00
Date Reported: December 7, 1998
Submission #: 9812000007
Project: GOOYEA - 1198

SAMPLES The submission consisted of 4 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:
* BTEX (EPA 8021)
* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO
* TPH (EPA 418.1)
* TS-TOTAL SOLIDS (EPA 160.3)

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9812000007 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

122744 to 122747

Client Name: Rhino Env. - Farmington
Submission #: 9812000007
Project Name: GOOYEA - 1198
Report Date: 12/07/98

Client Sample #: CELL 1 01 & 02
Laboratory ID #: 122744 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar,4oz EPA Glass Jar\White lid*
Sampling Location: *LEA COUNTY, NEW MEXICO*
Sampling Date : *11/29/98*

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 12/07/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**89.8**	

MOISTURE = 10.2%

Client Sample #: CELL 2 01 & 02
Laboratory ID #: 122745 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar,4oz EPA Glass Jar\White lid*
Sampling Location: *LEA COUNTY, NEW MEXICO*
Sampling Date : *11/29/98*

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 12/07/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**91.2**	

MOISTURE = 8.8%

Client Sample #: CELL 3 01 & 02
Laboratory ID #: 122746 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar,4oz EPA Glass Jar\White lid*
Sampling Location: *LEA COUNTY, NEW MEXICO*
Sampling Date : *11/29/98*

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Name: Rhino Env. - Farmington
Submission #: 9812000007
Project Name: GOOYEA - 1198
Report Date: 12/07/98

TPH (EPA 418.1)
TPH Prep Date: 12/07/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**88.4**	

MOISTURE = 11.6%

Client Sample #: CELL 4 01 & 02

Laboratory ID #: 122747 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar,4oz EPA Glass Jar\White lid*
Sampling Location: *LEA COUNTY, NEW MEXICO*
Sampling Date : *11/29/98*

BTEX (EPA 8021)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 12/07/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**90.6**	

MOISTURE = 9.4%

Report To: Rhino Environmental Services
Lab Number: 9812000007
Page 4 of 4

Project: Gooyea-1198

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Total Solids	12/1/98	----	±0.212	0.23	----	----

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	116	120	3.3
CONCENTRATION UNITS:	TPH - ppm		
DETECTION LIMITS:	TPH - 10		

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	12/7/98	12/7/98

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8021	Anthony Taylor	Solid	12/2/98	12/2/98

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	114	113	80-120	0.8	20.0
Toluene	100 ppb	124	121	80-120	2.4	20.0
Ethyl Benzene	100 ppb	113	111	80-120	1.7	20.0
Xylenes	300 ppb	122	122	80-120	0.0	20.0

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: DANIELE BERARDELLI	Bill To: (Buyer) RHINO ENVIRONMENTAL
Company: RHINO ENVIRONMENTAL SERVICES	Purchase Order #:
Address: 5 CR 6065	Address: P.O. BOX 25547
City, State, Zip: FARMINGTON, NM 87401	City, State, Zip: ALBUQUERQUE, NM
Phone: 800-499-8393 Fax(505)598-9627	Phone: 800-762-0241 Fax: (505) 797-4874
Project Name: COOYEA - 1198	Quote #:
Project Location: LEA COUNTY	City, State: NM
Date Due: Rush: (0%) 25% 50% 100%	Sampled By: ALLEN HODGE

Lab#	Client Sample ID	Matrix	Date/Time	Sample Notes	Analysis: TPH 418.1	BTEX - 8020	MOISTURE	RCRA 8 - TAT METALS	CATION / ANION (GENERAL CHEM)			
122744	1. CELL 1-0.1	SOIL	11/29/98 @ 8:30	ICE	X		X					
↓	2. CELL 1-02		11/29/98 @ 9:00	METHANOL		X						
122745	3. CELL 2-01		11/29/98 @ 9:30	ICE	X		X					
↓	4. CELL 2-02		11/29/98 @ 9:30	METHANOL		X						
122746	5. CELL 3-01		11/29/98 @ 9:40	ICE	X		X					
↓	6. CELL 3-02		11/29/98 @ 10:00	METHANOL		X						
122747	7. CELL 4-01		11/29/98 @ 10:20	ICE	X		X					
↓	8. CELL 4-02		11-29-98 / 10:30	METHANOL		X						
	9. ~~CELL~~											
	10.											

Relinquished By	Date	Time	Received By	Date	Time
[signature]	11/30/98	16:00	[signature]	12/1/98	10:00

Sample Receipt Notes
Temperature
Preserved Properly
COC Seals Intact
Method of Shipment

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal____
Accept Returned Sample ____

Submission # 9812-07

010 REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

RHINO
Environmental Services, Inc.
P.O. Box 25547 • Albuquerque, New Mexico 87125
(505) 247-4646 • Fax (505) 797-4874
5 County Road 6065 • Farmington, New Mexico 87401
(505)598-9626 • Fax (505) 598-9627

June 25, 1998

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

Re: Goo-Yea Landfarm Facility:
Quarterly Report - May 1998

Dear Ms. Kieling:

Rhino Environmental Services, Inc. (Rhino) would like to apologize for the tardiness of this report. As can be read on Anachem's cover sheet, samples were submitted to the laboratory on May 20, 1998, however, results were not reported until June 23, 1998.

In accordance with the conditions set forth in the permit, enclosed please find the February 1998 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

No soils were accepted into the facility for this past quarter, therefore, the soil log is not part of this report. One native soil sample was retrieved from each active treatment area, Cells 1, 2, 3 and 4. All samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of sample collection. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted August, 1998. Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

Attachments

CC: Mr. Wayne Price
OCD, District - 1
P.O. Box 1908
Hobbs, New Mexico 88241-1980

WJM 7-1-98

TABLE NO. 1 - Analytical Results

Quarterly Native Soil Sampling:

One native soil sample was retrieved from Cell 1, Cell 2, Cell 3 and Cell 4. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1, Cell 2, Cell 3 and Cell 4 samples were submitted for analysis by EPA method 418.1 and EPA method 8020, RCRA Total Metals and General Chemistry. The analytical results are summarized in Table No. 1.

TABLE NO. 1
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	< 3.05 Arsenic 24.0 Barium < 0.35 Cadmium 4.0 Chromium 3.5 Lead < 2.50 Selenium < 1.50 Silver	25.0 Alkalinity, Total 25.0 Bicarbonate Alkalinity 30.5 Bicarbonate Ion 47.9 Calcium <1.0 Carbonate Ion 1.06 Chloride 4.10 Magnesium <0.02 Mercury 8.30 Potassium 8.0 Sodium <0.1 Sulfate	7.9
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	< 0.61 Arsenic 20.0 Barium < 0.07 Cadmium 3.5 Chromium 3.2 Lead < 0.50 Selenium < 0.30 Silver	40.0 Alkalinity, Total 40.0 Bicarbonate Alkalinity 48.8 Bicarbonate Ion 20.3 Calcium <1.0 Carbonate Ion 1.05 Chloride <1.5 Magnesium <0.02 Mercury 5.50 Potassium 6.80 Sodium 1.45 Sulfate	7.8
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	?? 36	< 0.61 Arsenic 19.0 Barium < 0.07 Cadmium 3.4 Chromium 2.6 Lead < 0.50 Selenium < 0.30 Silver	25.0 Alkalinity, Total 25.0 Bicarbonate Alkalinity 30.5 Bicarbonate Ion 29.4 Calcium <1.0 Carbonate Ion 0.49 Chloride <1.5 Magnesium <0.02 Mercury 5.00 Potassium 8.4 Sodium <1.0 Sulfate	7.9

TABLE NO. 1, Continued
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	< 0.615 Arsenic 50.0 Barium < 0.07 Cadmium 5.0 Chromium 5.0 Lead < 0.50 Selenium < 0.30 Silver	45.0 Alkalinity, Total 45.0 Bicarbonate Alkalinity 54.9 Bicarbonate Ion 52.5 Calcium <1.0 Carbonate Ion 89.6 Chloride 24.0 Magnesium <0.02 Mercury 28.1 Potassium 70.8 Sodium 8.70 Sulfate	8.0

Analyses for Cells 1, 2 and 4 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred.

*Cell 3 results report trace amount of TPH. Rhino believes this is most likely due to contamination during sample collection. High winds were experienced probably causing a bit of cross contamination to occur. Upon request by the OCD, Rhino will re-sample Cell 3 for TPH analysis.

APPENDIX A - ANALYTICAL RESULTS

Goo Yea
Got originals

RECEIVED
JUL 17 1998

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Martyne, Background 2.2.

Here are the original results for the quarterly sampling (5/98).

Also - Thanks very much for all your help with the new permit.

Daniele

Customer Name: Rhino Env. - Farmington
Date Received: May 20, 1998 at 09:00:00
Date Reported: June 23, 1998
Submission #: 9805000278
Project: GY QTR - 0598

SAMPLES The submission consisted of 8 samples with sar I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages
* ALKALINITY, TOTAL (EPA 310.1)
* BICARBONATE ALKALINITY (EPA 310.1)
* BICARBONATE ION (EPA 310.1)
* BTEX (EPA 8020)
* CALCIUM/Ca (EPA 200.7)
* CARBONATE ION (EPA 310.1)
* CHLORIDE (EPA 300.0)
* MAGNESIUM/Mg (EPA 200.7)
* MERCURY DIGESTION (EPA 7470)
* MERCURY/Hg BY COLD VAPOR (EPA 7471)
* MICROWAVE DIGESTION (EPA 3051) SOLID
* pH (EPA 150.1)
* POTASSIUM/K (EPA 200.7)
* SODIUM/Na (EPA 200.7)
* SULFATE (EPA 300.0)
* TOTAL RCRA METALS (EPA 6010)
* TPH (EPA 418.1)

Totals 20% ... of 5 ppm (Totals)

is under EPA Limit

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9805000278 lims

106363 to 106370

Client Name: Rhino Env. - Farmington
Submission #: 9805000278
Project Name: GY QTR - 0598
Report Date: 06/23/98

Client Sample #: CELL 1-A
Laboratory ID #: 106363 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *05/17/98*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**25**	1.0

BICARBONATE ALKALINITY (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate Alkalinity	**25**	1.0

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	**30.5**	1.0

CALCIUM/Ca (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Calcium *(for anion extract; total concentration = 11200mg/kg)*	**47.9**	0.05

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	<1.0	1.0

CHLORIDE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Chloride	**1.06**	0.1

MAGNESIUM/Mg (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Magnesium *(for anion extract; total concentration = 463mg/kg)*	**4.1**	1.5

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 05/20/98

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.02	0.02

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 05/20/98

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**7.9**	0.05

POTASSIUM/K (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Potassium *(for anion extract; total concentration = 485mg/kg)*	**8.3**	0.5

SODIUM/Na (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Sodium *(for anion extract; total concentration = 125mg/kg)*	**8.0**	0.05

Client Name: Rhino Env. - Farmington
Submission #: 9805000278
Project Name: GY QTR - 0598
Report Date: 06/23/98

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	<0.1	0.1

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<3.05	3.05
Barium	**24.0**	0.05
Cadmium	<0.35	0.35
Chromium	**4.0**	0.375
Lead	**3.5**	2.00
Selenium	<2.50	2.50
Silver	<1.50	1.50

TPH (EPA 418.1)
TPH Prep Date: 05/27/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: CELL 1-B
Laboratory ID #: 106364 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *05/17/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: CELL 2-A
Laboratory ID #: 106365 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *05/17/98*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**40**	1.0

BICARBONATE ALKALINITY (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate Alkalinity	**40**	1.0

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	**48.8**	1.0

CALCIUM/Ca (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Calcium	**20.3**	0.05

(for anion extract; total concentration = 9100mg/kg)

Client Name: Rhino Env. - Farmington
Submission #: 9805000278
Project Name: GY QTR - 0598
Report Date: 06/23/98

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	<1.0	1.0

CHLORIDE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Chloride	**1.05**	0.1

MAGNESIUM/Mg (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Magnesium *(for anion extract; total concentration = 424mg / kg)*	<1.5	1.5

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 05/20/98

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.02	0.02

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 05/20/98

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**7.8**	0.05

POTASSIUM/K (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Potassium *(for anion extract; total concentration = 454mg / kg)*	**5.5**	0.5

SODIUM/Na (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Sodium *(for anion extract; total concentration = 122mg / kg)*	**6.8**	0.05

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	**1.45**	1.0

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<0.61	0.61
Barium	**20.0**	0.01
Cadmium	<0.07	0.07
Chromium	**3.5**	0.075
Lead	**3.2**	0.40
Selenium	<0.5	0.5
Silver	<0.3	0.3

TPH (EPA 418.1)
TPH Prep Date: 05/27/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Name: Rhino Env. - Farmington
Submission #: 9805000278
Project Name: GY QTR - 0598
Report Date: 06/23/98

Client Sample #: CELL 2-B
Laboratory ID #: 106366 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *05/17/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: CELL 3-A
Laboratory ID #: 106367 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *05/17/98*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**25**	1.0

BICARBONATE ALKALINITY (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate Alkalinity	**25**	1.0

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	**30.5**	1.0

CALCIUM/Ca (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Calcium	**29.4**	0.05

(for anion extract; total concentration = 8250mg/kg)

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	<1.0	1.0

CHLORIDE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Chloride	**0.49**	0.1

MAGNESIUM/Mg (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Magnesium	<1.5	1.5

(for anion extract; total concentration = 451mg/kg)

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 05/20/98

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.02	0.02

Client Name: Rhino Env. - Farmington
Submission #: 9805000278
Project Name: GY QTR - 0598
Report Date: 06/23/98

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 05/20/98

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**7.9**	0.05

POTASSIUM/K (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Potassium	**5.0**	0.5
(for anion extract; total concentration = 500mg/kg)		

SODIUM/Na (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Sodium	**8.4**	0.05
(for anion extract; total concentration = 116mg/kg)		

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	<1.0	1.0

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<0.61	0.61
Barium	**19.0**	0.01
Cadmium	<0.07	0.07
Chromium	**3.4**	0.075
Lead	**2.6**	0.40
Selenium	<0.5	0.5
Silver	<0.3	0.3

TPH (EPA 418.1)
TPH Prep Date: 05/27/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	**36**	10

Client Sample #: CELL 3-B

Laboratory ID #: 106368 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *05/17/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Name: Rhino Env. - Farmington
Submission #: 9805000278
Project Name: GY QTR - 0598
Report Date: 06/23/98

Client Sample #: CELL 4-A
Laboratory ID #: 106369 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *05/17/98*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**45**	1.0

BICARBONATE ALKALINITY (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate Alkalinity	**45**	1.0

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	**54.9**	1.0

CALCIUM/Ca (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Calcium *(for anion extract; total concentration = 13900mg/kg)*	**52.5**	0.05

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	<1.0	1.0

CHLORIDE (EPA 300.0)

Analyte	Results(mg/l)	Detection Limit
Chloride	**89.6**	0.1

MAGNESIUM/Mg (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Magnesium *(for anion extract; total concentration = 975mg/kg)*	**24.0**	1.5

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 05/20/98

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.02	0.02

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 05/20/98

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**8.0**	0.05

POTASSIUM/K (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Potassium *(for anion extract; total concentration = 745mg/kg)*	**28.1**	0.5

SODIUM/Na (EPA 200.7)

Analyte	Results(mg/kg)	Detection Limit
Sodium *(for anion extract; total concentration = 285mg/kg)*	**70.8**	0.05

Client Name: Rhino Env. - Farmington
Submission #: 9805000278
Project Name: GY QTR - 0598
Report Date: 06/23/98

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	**8.7**	1.0

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<0.61	0.61
Barium	**50.0**	0.01
Cadmium	<0.07	0.07
Chromium	**5.0**	0.075
Lead	**5.0**	0.40
Selenium	<0.5	0.5
Silver	<0.3	0.3

TPH (EPA 418.1)
TPH Prep Date: 05/27/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: CELL 4-B

Laboratory ID #: 106370 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *05/17/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Report To: Rhino Environmental
Lab Number: 9805000278
Page 9 of 9

Project: GYQTR-9598

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8020	Howard Hayden	Solid	5/20/98	5/20/98

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	86.8	86.1	80-120	0.8	20.0
Toluene	100 ppb	101	102	80-120	0.9	20.0
Ethyl Benzene	100 ppb	107	108	80-120	0.9	20.0
Xylenes	300 ppb	107	109	80-120	1.8	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	136	134	1.5
CONCENTRATION UNITS:	TPH - ppm		
DETECTION LIMITS:	TPH - 10		

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	5/27/98	5/27/98

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Total Alkalinity	6/9/98	----	63.6	12	95.1	110
Chloride	6/15/98	----	0	0	90	90
Mercury	5/21/98	----	0.004	2.4	97	101
Silver	5/22/98	4.0	0.099	2.9	86.7	83.2
Arsenic	5/22/98	4.0	0.064	1.9	85.1	82.8
Chromium	5/22/98	4.0	0.092	2.6	86.1	82.8
Lead	5/22/98	4.0	0.050	1.4	84.2	82.4
Selenium	5/22/98	4.0	0.035	1.2	79.4	80.6
Barium	5/22/98	4.0	0.212	4.7	92.9	85.4
Cadmium	5/22/98	4.0	0.099	3.0	85.3	81.8

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: D. Berardelli
Company: Rhino
Address: 5 CR 6065
City, State, Zip: Farmington, NM 87401
Phone: 5055989626 Fax: 598-9627

Bill To: (Buyer) Rhino Environmental
Purchase Order #: GY98-1998 (GooYea)
Address: P.O. Box 25547
City, State, Zip: Alb., NM 87125
Phone: 5052474646 Fax: 797-4874

Project Name: GYQTR-0598 Quote #:
Project Location: Lea County City, State: NM
Date Due: Rush: (0%) 25% 50% 100% Sampled By: Steve Dyer

Lab#	Client Sample ID	Matrix	Date/Time	Sample Notes	TPH 418.1	BTEX 8020	Total RCRA 8 Metals	Cation/Anion				
106363	1. Cell 1-A	soil	5/17 1715	ice	X		X	X				
64	2. Cell 1-B			5/17 1722	ice/methanol		X						
65	3. Cell 2-A			5/17 1735	ice	X		X	X				
66	4. Cell 2-B			5/17 1744	ice/methanol		X						
67	5. Cell 3-A			5/17 1754	ice	X		X	X				
68	6. Cell 3-B			5/17 1810	ice/methanol		X						
69	7. Cell 4-A			5/17 1822	ice	X		X	X				
70	8. Cell 4-B			5/17 1830	ice/methanol		X						
	9.											
	10.											

Relinquished By	Date	Time	Received By	Date	Time
[illegible]	5/19	10:15	[illegible]	5/19/98	10:15
			[illegible]	5/20/98	9:00

Sample Receipt Notes
Temperature 4°C
Preserved Properly
COC Seals Intact
Method of Shipment

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal ✓
Accept Returned Sample ___

Submission # 9805-278

010 REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

RHINO
Environmental Services, Inc.

P.O. Box 25547 • Albuquerque, New Mexico 87125
(505) 247-4646 • Fax (505) 797-4874
5 County Road 6065 • Farmington, New Mexico 87401
(505)598-9626 • Fax (505) 598-9627

August 31, 1998

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

Re: Goo-Yea Landfarm Facility:
Quarterly Report - August 1998

Dear Ms. Kieling:

In accordance with the conditions set forth in the permit, enclosed please find the August 1998 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

No soils were accepted into the facility for this past quarter, therefore, the soil log is not part of this report. One native soil sample was retrieved from each active treatment area, Cells 1, 2, 3 and 4. All samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of sample collection. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted August, 1998. Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

Attachments

CC: Mr. Wayne Price
OCD, District - 1
P.O. Box 1908
Hobbs, New Mexico 88241-1980

10-7-98
MJK

TABLE NO. 1 - Analytical Results

Quarterly Native Soil Sampling:

One native soil sample was retrieved from Cell 1, Cell 2, Cell 3 and Cell 4. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1, Cell 2, Cell 3 and Cell 4 samples were submitted for analysis by EPA method 418.1 and EPA method 8020. The analytical results are summarized in Table No. 1.

TABLE NO. 1
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10

Analyses for Cells 1, 2 and 4 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred.

FIGURE No. 1 - SITE MAP

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Each cell is approximately 5 acres in size.

N
↕
S

Cell 1	Cell 2	Cell 3	Cell 4	Cell 5
X	X	X	X	

X denotes sample collection location

Not to Scale

APPENDIX A - ANALYTICAL RESULTS

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env. - Farmington
Date Received: August 19, 1998 at 10:00:00
Date Reported: August 25, 1998
Submission #: 9808000323
Project: GY 0898

SAMPLES The submission consisted of 4 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:
* BTEX (EPA 8020)
* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO
* TPH (EPA 418.1)
* TS-TOTAL SOLIDS (EPA 160.3)

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9808000323 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

119164 to 113167

Client Name: Rhino Env. - Farmington
Submission #: 9808000323
Project Name: GY 0898
Report Date: 08/25/98

Client Sample #: CELL 1 A & B
Laboratory ID #: 113164 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz Glass Jar\Aqua Lid,Methanol Jar*
Sampling Location: *G00YEA, LEA COUNTY, NM*
Sampling Date : *08/17/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 08/25/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**82.7**	

Client Sample #: CELL 2 A & B
Laboratory ID #: 113165 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz Glass Jar\Aqua Lid,Methanol Jar*
Sampling Location: *G00YEA, LEA COUNTY, NM*
Sampling Date : *08/17/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 08/25/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**90.3**	

Client Sample #: CELL 3 A & B
Laboratory ID #: 113166 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz Glass Jar\Aqua Lid,Methanol Jar*
Sampling Location: *G00YEA, LEA COUNTY, NM*
Sampling Date : *08/17/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Name: Rhino Env. - Farmington
Submission #: 9808000323
Project Name: GY 0898
Report Date: 08/25/98

TPH (EPA 418.1)
TPH Prep Date: 08/25/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**90.0**	

Client Sample #: CELL 4 A & B
Laboratory ID #: 113167 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz Glass Jar\Aqua Lid,Methanol Jar*
Sampling Location: *G00YEA, LEA COUNTY, NM*
Sampling Date : *08/17/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 08/25/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**88.9**	

Report To: Rhino Environmental
Lab Number: 9808000323
Page 4 of 4

Project: 640898

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Total Solids	8/24/98	----	0.14	0.17	----	----

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8020	Howard Hayden	Solid	8/20/98	8/20/98

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	82.1	80.1	80-120	2.4	20.0
Toluene	100 ppb	86.5	83.7	80-120	3.2	20.0
Ethyl Benzene	100 ppb	100	85.8	80-120	14.2	20.0
Xylenes	300 ppb	98.9	85.8	80-120	13.2	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	116	120	3.3
CONCENTRATION UNITS:	TPH - ppm		
DETECTION LIMITS:	TPH - 10		

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	8/25/98	8/25/98

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: Danielle Brandelli	Bill To: (Buyer) Rhino Environmental
Company: Rhino	Purchase Order #: 6Y0898
Address: SCR 6025	Address: P.O. Box 25547
City, State, Zip: Farmington, NM 87401	City, State, Zip: Alb., NM 87125
Phone: 5055989686 Fax: 9687	Phone: 5052474646 Fax: 5057974874

Project Name: 6Y0898 Quote #:

Project Location: Eddy Co. City, State: Lea County, NM

Date Due: Rush: (0%) 25% 50% 100% Sampled By: Alfred Archando/D. Brandelli

Lab#	Client Sample ID	Matrix	Date/Time	Sample Notes	Analysis: TPH 418.1	BTEX 8021	Moisture
113164	1. Cell 1-A	Soil	8-17/1730	ice	X		X
↓	2. Cell 1-B		8-17/1730	ice/methanol		X	X DB
113165	3. Cell 2-A		8-17/1755	ice	X		X
↓	4. Cell 2-B		8-17/1755	ice/methanol		X	X DB
113166	5. Cell 3-A		8-17/1827	ice	X		X
↓	6. Cell 3-B		8-17/1827	ice/methanol		X	X DB
113167	7. Cell 4-A		8-17/1903	ice	X		X
↓	8. Cell 4-B		8-17/1903	ice/methanol		X	X DB
	9.						
	10.						

Relinquished By	Date	Time	Received By	Date	Time
[signature]	8-18-98	1522	[signature]	8/19/98	10:00

Sample Receipt Notes
- Temperature 4°C
- Preserved Properly
- COC Seals Intact
- Method of Shipment

In the event that Anachem determines that a sample is hazardous, the client agrees to:
- Pay For Sample Disposal ✓
- Accept Returned Sample ___

Submission # 9808-373

OTO REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

RHINO
Environmental Services, Inc.
300 Broadway NE • Albuquerque, New Mexico 87102
(505) 242-6464 • Fax (505) 247-4941
5 County Road 6065 • Farmington, New Mexico 87401
(505)598-9626 • Fax (505) 598-9627

February 24, 1998

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

Re: Goo-Yea Landfarm Facility:
Quarterly Report - February 1998

Dear Ms. Kieling:

In accordance with the conditions set forth in the permit, enclosed please find the February 1998 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soils accepted from November 1, 1997 through January 31, 1998. One native soil sample was retrieved from the treatment area in Cell 1, Cell 2, Cell 3 and Cell 4. All samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. An additional cell, number 6, has been constructed. Background samples for this cells were collected and submitted for the appropriate analysis. Figure No. 1 is a site map showing the location of sample collection. Analyses for Cell 1, Cell 2, Cell 3 and Cell 4 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted May, 1998. Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

Attachments

CC: Wayne Price
OCD, District - 1

TABLE NO. 1 - Soil Log

GOO-YEA LANDFARM FACILITY
QUARTERLY REPORT
February 1998

Soil accepted from November 1, 997 to January 31, 1998.

A total of 1,320 cubic yards (cy) of soils were received during this quarter. A list of those soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

DATE	VOLUME	SOURCE	SECTION
12-31-97 to 01-09-98	640 cy Exempt	Bonneville Fuels Corporation Norris Well #2 Lea County, NM	Cell 4
12-29-97 to 01-05-98	500 cy Exempt	Bonneville Fuels Corporation Norris Well #4 Lea County, NM	Cell 4
01-14-98 & 01-15-98	180 cy Exempt	Texaco E & P, Inc. Cooper Jal # 119 Lea County, NM	Cell 4

TABLE NO. 2 - Analytical Results

Quarterly Native Soil Sampling:

One native soil sample was retrieved from Cell 1, Cell 2, Cell 3 and Cell 4 and one background sample was collected from Cell 5. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1, Cell 2, Cell 3 and Cell 4 samples were submitted for analysis by EPA method 418.1 and EPA method 8020. The Cell 5 background sample was submitted for analysis by EPA method 418.1, EPA method 8020, RCRA Total Metals, and General Chemistry. The analytical results are summarized in Table No. 1.

TABLE NO. 2
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 6		< 10	< 1.53 Arsenic 7.24 Barium < 0.18 Cadmium < 0.19 Chromium < 1.00 Lead < 1.25 Selenium < 0.75 Silver	70.8 Bicarbonate 908 Calcium <10 Carbonate 40.0 Chloride 1.68 Fluoride 840 Magnesium <0.02 Mercury <1.0 Nitrate <1.0 Phosphate 515 Potassium 236 Sodium 104 Sulfate	7.5

Background

Analyses for Cells 1, 2, 3 and 4 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred.

APPENDIX A - Analytical Results

FIGURE No. 1 - SITE MAP

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Each cell is approximately 5 acres in size.

N
↕
S

Cell 1	Cell 2	Cell 3	Cell 4	Cell 5
X	X	X	X	X

X denotes sample collection location

Not to Scale

APPENDIX A - ANALYTICAL RESULTS

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env. - Farmington
Date Received: February 6, 1998 at 10:00:00
Date Reported: February 12, 1998
Submission #: 9802000056
Project: GY 0298

SAMPLES The submission consisted of 8 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:
* BTEX (EPA 8020)
* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO
* TPH (EPA 418.1)
* TS-TOTAL SOLIDS (EPA 160.3)

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9802000056 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

98635 to 98642

Client Name: Rhino Env. - Farmington
Submission #: 9802000056
Project Name: GY 0298
Report Date: 02/12/98

Client Sample #: GY01-A
Laboratory ID #: 98635 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *02/03/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: GY01-B
Laboratory ID #: 98636 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *02/03/98*
Temperature (Celcius):4

TPH (EPA 418.1)
TPH Prep Date: 02/09/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**90.9**	1

Client Sample #: GY02-A
Laboratory ID #: 98637 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *02/03/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: GY02-B
Laboratory ID #: 98638 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *02/03/98*
Temperature (Celcius):4

TPH (EPA 418.1)
TPH Prep Date: 02/09/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Name: Rhino Env. - Farmington
Submission #: 9802000056
Project Name: GY 0298
Report Date: 02/12/98

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**88.0**	1

Client Sample #: GY03-A
Laboratory ID #: 98639 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *02/03/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: GY03-B
Laboratory ID #: 98640 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *02/03/98*
Temperature (Celcius):4

TPH (EPA 418.1)
TPH Prep Date: 02/09/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**88.0**	1

Client Sample #: GY04-A
Laboratory ID #: 98641 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *02/03/98*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: GY04-B
Laboratory ID #: 98642 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *02/03/98*
Temperature (Celcius):4

TPH (EPA 418.1)
TPH Prep Date: 02/09/98

Client Name: Rhino Env. - Farmington
Submission #: 9802000056
Project Name: GY 0298
Report Date: 02/12/98

TPH (EPA 418.1)

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**88.9**	1

Report To: Rhino Environmental
Lab Number: 9802000056
Page 5 of 5

Project: GYO298

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8020	Howard Hayden	Solid	2/6/98	2/6/98

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	91.4	81.7	80-120	11	20.0
Toluene	100 ppb	93.1	83.3	80-120	11	20.0
Ethyl Benzene	100 ppb	92.0	81.8	80-120	11	20.0
Xylenes	300 ppb	96.6	86.1	80-120	11	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	430	420	2.3
CONCENTRATION UNITS:	TPH - ppm		
DETECTION LIMITS:	TPH - 10		

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	2/9/98	2/9/98

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Total Solids	2/11/98	----	0.354	0.4	----	----

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: Daniele Berardelli	Bill To: (Buyer) Rhino
Company: Rhino	Purchase Order #: RH98-1998
Address: 5 CR 6065	Address: PO Box 25547
City, State, Zip: Farmington, NM 87401	City, State, Zip: Alb., NM 87125
Phone: (505) 598-9626 Fax: 598-9627	Phone: 505 242 6464 Fax: 247-4941

Project Name: GY0298 Quote #:

Project Location: Lea Cnty City, State: NM

Date Due: Rush: (0%) 25% 50% 100% Sampled By: D. Berardelli

Lab#	Sample ID / Client Sample ID	Matrix	Date/Time	Sample Notes	Analysis: TPH 418.1	Moisture	BTEX 8020
GY01-A	1. 98635	Soil	2-3/1712	ice/methanol			X
GY01-B	2. 36		2-3/1712	ice	X	X	
GY02-A	3. 37		2-3/1723	ice/methanol			X
GY02-B	4. 38		2-3/1723	ice	X	X	
GY03-A	5. 39		2-3/1735	ice/methanol			X
GY03-B	6. 40		2-3/1735	ice	X	X	
GY04-A	7. 41		2-3/1742	ice/methanol			X
GY04-B	8. 42		2-3/1742	ice	X	X	
	9.						
	10.						

DB 2-3-98

Relinquished By	Date	Time	Received By	Date	Time
[signature]	2/4/98	1808	[signature]	2-4-98	1808
			[signature]	2/6/98	10:00

Sample Receipt Notes	
Temperature	4°C
Preserved Properly	
COC Seals Intact	
Method of Shipment	

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal ✓
Accept Returned Sample ____

Submission # 9802-56

010 REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env. - Farmington
Date Received: February 6, 1998 at 10:00:00
Date Reported: February 19, 1998
Submission #: 9802000057
Project: GY 0298 BCK

SAMPLES The submission consisted of 1 sample with sample I.D. shown in the attached data table.

TESTS The sample listed in the attached result pages was analyzed for:

* BICARBONATE ION (EPA 310.1)
* CALCIUM/Ca (EPA 6010)
* CARBONATE ION (EPA 310.1)
* CHLORIDE (EPA 9056)
* FLUORIDE (EPA 9056)
* MAGNESIUM/Mg (EPA 6010)
* MERCURY DIGESTION (EPA 7470)
* MERCURY/Hg BY COLD VAPOR (EPA 7471)
* MICROWAVE DIGESTION (EPA 3051) SOLID
* NITRATE (EPA 9056)
* pH (EPA 9045A)
* PHOSPHATE (EPA 9056)
* POTASSIUM/K (EPA 6010)
* SODIUM/Na (EPA 6010)
* SULFATE (EPA 9056)
* TOTAL RCRA METALS (EPA 6010)
* TPH (EPA 418.1)

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9802000057 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

98643 to 98643

Purchase Order/Chain Of Custody

Page 1 of 1

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: D. Berardelli	Bill To: (Buyer) Rhino
Company: Rhino	Purchase Order #: RH98-1998
Address: 5 CR 6065	Address: PO Box 25547
City, State, Zip: Farmington, NM 87401	City, State, Zip: Alb., NM 87125
Phone: 598-9626 Fax: 598-9627	Phone: 505 242-6464 Fax: 247-4941

Project Name: GY0298 BCK Quote #:

Project Location: Lea County City, State: NM

Date Due: Rush: (0%) 25% 50% 100% Sampled By: D. Berardelli

Lab#	Client Sample ID	Matrix	Date/Time	Sample Notes	Analysis: 418.1 TPH	Total Metals	Anion/Cation					
98643	1. GY06	Soil	2-3/1755	ice	X	X	X					
	2.		~~2/3/11~~ DB									
	3.											
	4.											
	5.											
	6.											
	7.											
	8.											
	9.											
	10.											

Relinquished By	Date	Time	Received By	Date	Time
[signature]	2/4/98	1808	[signature]	1808	2-4-98
			[signature]	2/6/98	10:00

Sample Receipt Notes	
Temperature	4°C
Preserved Properly	
COC Seals Intact	
Method of Shipment	

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal V
Accept Returned Sample ____

Submission # 9802-57

010 REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

RHINO
Environmental Services, Inc.
300 Broadway NE • Albuquerque, New Mexico 87102
(505) 242-6464 • Fax (505) 247-4941

December 3, 1997

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

Re: Goo-Yea Landfarm Facility:
Quarterly Report - November 1997

Dear Ms. Kieling:

In accordance with the conditions set forth in the permit, enclosed please find the November 1997 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soils accepted from August 1, 1997 through November 4, 1997. One native soil sample was retrieved from the treatment area in Cell 1, Cell 2, Cell 3 and Cell 4. All samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. An additional cell, number 5, has been constructed. Background samples for this cells were collected and submitted for the appropriate analysis. Figure No. 1 is a site map showing the location of sample collection. Analyses for Cell 1, Cell 2, Cell 3 and Cell 4 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted February, 1997. Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

Attachments

CC: Wayne Price
OCD, District - 1

TABLE NO. 1 - Soil Log

RHINO ENVIRONMENTAL SERVICES, INC.

GOO-YEA LANDFARM FACILITY
QUARTERLY REPORT
November 1997

Soil accepted from August 1, 1997 to November 4, 1997.

A total of 2,222 cubic yards (cy) of soils were received during this quarter. A list of those soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

DATE	VOLUME	SOURCE	SECTION
09-29-97 to 11-04-97	2,222 cy	Pride Petroleum Services, Inc. Lovington Yard Lovington, New Mexico	Cell 3

TABLE NO. 2 - Analytical Results

Quarterly Soil Sampling:

One native soil sample was retrieved from Cell 1, Cell 2, Cell 3 and Cell 4 and one background sample was collected from Cell 5. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1, Cell 2, Cell 3 and Cell 4 samples were submitted for analysis by EPA method 418.1 and EPA method 8020. The Cell 5 background sample was submitted for analysis by EPA method 418.1, EPA method 8020, RCRA Total Metals, and General Chemistry. The analytical results are summarized in Table No. 1.

TABLE NO. 2
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 5		< 10	< 3.05 Arsenic 142 Barium 0.55 Cadmium 8.15 Chromium < 2.00 Lead < 2.50 Selenium < 1.50 Silver 5. ppm Max.	350 Total Alkalinity 326 Bicarbonate 16100 Calcium 24 Carbonate 50.0 Chloride 18300 Magnesium <0.02 Mercury 3060 Potassium 840 Sodium 19.2 Sulfate	9.0

Background

Analyses for Cells 1, 2, 3 and 4 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred. Background samples collected from the center of treatment Cell 5 show trace amounts of Barium, Cadmium and Chromium as being naturally present in the soil.

5.00 ppm EPA max limit

APPENDIX A - Analytical Results

FIGURE 1 - SITE MAP

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Each cell is approximately 5 acres in size.

N
↕
S

Cell 1	Cell 2	Cell 3	Cell 4	Cell 5
X	X	X	X	X

X denotes sample collection location

Not to Scale

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env. - Farmington
Date Received: November 19, 1997 at 10:00:00
Date Reported: November 26, 1997
Submission #: 9711000213
Project: GOOYEA - 1197

SAMPLES The submission consisted of 9 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:

* ALKALINITY, TOTAL (EPA 310.1)
* BICARBONATE ALKALINITY (EPA 310.1)
* BTEX (EPA 8020)
* CALCIUM/Ca (EPA 215.1)
* CARBONATE ALKALINITY (EPA 310.1)
* CHLORIDE (EPA 300.0)
* MAGNESIUM/Mg (EPA 242.1)
* MERCURY DIGESTION (EPA 7470)
* MERCURY/Hg BY COLD VAPOR (EPA 7471)
* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO
* MICROWAVE DIGESTION (EPA 3051) SOLID
* pH (EPA 150.1)
* POTASSIUM/K (EPA 258.1)
* SODIUM/Na (EPA 273.1)
* SULFATE (EPA 300.0)
* TOTAL RCRA METALS (EPA 6010)
* TPH (EPA 418.1)
* TS-TOTAL SOLIDS (EPA 160.3)

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9711000213 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

94459 to 94467

Client Name: Rhino Env. - Farmington
Submission #: 9711000213
Project Name: GOOYEA -1197
Report Date: 11/26/97

Client Sample #: CELL 1-01
Laboratory ID #: 94459 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *11/18/97*
Temperature (Celcius):4

TPH (EPA 418.1)
TPH Prep Date: 11/20/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**89.5**	

Client Sample #: CELL 1-02
Laboratory ID #: 94460 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *11/18/97*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: CELL 2-01
Laboratory ID #: 94461 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *11/18/97*
Temperature (Celcius):4

TPH (EPA 418.1)
TPH Prep Date: 11/20/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**89.6**	

Client Sample #: CELL 2-02
Laboratory ID #: 94462 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *11/18/97*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50

Client Name: Rhino Env. - Farmington
Submission #: 9711000213
Project Name: GOOYEA -1197
Report Date: 11/26/97

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Xylenes	<0.50	0.50

Client Sample #: CELL 3-01

Laboratory ID #: 94463 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *11/18/97*
Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 11/20/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**92.9**	

Client Sample #: CELL 3-02

Laboratory ID #: 94464 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *11/18/97*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: CELL 4-01

Laboratory ID #: 94465 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *11/18/97*
Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 11/20/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**93.4**	

Client Name: Rhino Env. - Farmington
Submission #: 9711000213
Project Name: GOOYEA -1197
Report Date: 11/26/97

Client Sample #: CELL 4-02
Laboratory ID #: 94466 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *11/18/97*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: CELL 5
Laboratory ID #: 94467 *Order Type: Normal Matrix: Soil*
Sample Container: *3x4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *11/18/97*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**350**	

BICARBONATE ALKALINITY (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate Alkalinity	**326**	

CALCIUM/Ca (EPA 215.1)

Analyte	Results(mg/kg)	Detection Limit
Calcium *(EQUIVALENT IN ANION EXTRACT: 100 ppm)*	**16100**	0.5

CARBONATE ALKALINITY (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate Alkalinity	**24**	1

CHLORIDE (EPA 300.0)

Analyte	Results(mg/l)	Detection Limit
Chloride	**50.0**	0.1

MAGNESIUM/Mg (EPA 242.1)

Analyte	Results(mg/kg)	Detection Limit
Magnesium *(EQUIVALENT IN ANION EXTRACT:53.8 ppm)*	**18300**	0.5

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 11/19/97

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.02	0.02

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 11/19/97

Client Name: Rhino Env. - Farmington
Submission #: 9711000213
Project Name: GOOYEA - 1197
Report Date: 11/26/97

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**9.00**	0.05

POTASSIUM/K (EPA 258.1)

Analyte	Results(mg/kg)	Detection Limit
Potassium	**3060**	0.5
(EQUIVALENT IN ANION EXTRACT: 16.5 ppm)		

SODIUM/Na (EPA 273.1)

Analyte	Results(mg/kg)	Detection Limit
Sodium	**840**	0.5
(EQUIVALENT IN ANION EXTRACT: 6.1 ppm)		

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	**19.2**	1.0

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<3.05	3.05
Barium	**142.0**	0.05
Cadmium	**0.55**	0.35
Chromium	**8.15**	0.38
Lead	<2.00	2.00
Selenium	<2.50	2.50
Silver	<1.50	1.50

TPH (EPA 418.1)

TPH Prep Date: 11/20/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Project: GooYea - 1197

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8020	Howard Hayden	Solid	11/19/97	11/19/97

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	94.1	95.1	80-120	1.1	20.0
Toluene	100 ppb	94.4	95.4	80-120	1.1	20.0
Ethyl Benzene	100 ppb	90.8	91.9	80-120	1.2	20.0
Xylenes	300 ppb	86.0	87.2	80-120	1.4	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	78	76	2.6
CONCENTRATION UNITS:	TPH - ppm		
DETECTION LIMITS:	TPH - 10		

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	11/20/97	11/20/97

Report To: Rhino Env.
Lab Number: 9711000213

Project: GooYea - 1197

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Alkalinity	11/24/97	---	1.4	4	97.3	96
Chloride	11/25/97	---	0.03	2.1	107	104
Mercury	11/20/97	---	0.509	5.6	107	99
Sulfate	11/24/97	---	0.06	0.8	106	105
Arsenic	11/19/97	---	0.148	3.9	93	88
Barium	11/19/97	---	0.276	4.5	88	78
Cadmium	11/19/97	---	0.109	3.3	85	81
Chromium	11/19/97	---	0.118	3.2	90	86
Lead	11/19/97	---	0.110	3.2	86	82
Selenium	11/19/97	---	0.139	4.1	87	83
Silver	11/19/97	---	0.182	4.5	93	87

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: Daniele Berardelli	Bill To: (Buyer) Rhino Environmental
Company: Rhino Environmental	Purchase Order #: GX97-1997/054925
Address: 5 CR 6065	Address: P.O. Box 25547
City, State, Zip: Farmington, NM 87401	City, State, Zip: Alb., NM 87125
Phone: 598-9626 Fax: 598-9627	Phone: 242-6464 Fax: 247-4941

Project Name: Goovea-1197 Quote #:

Project Location: Lea County City, State: NM

Date Due: 11/24 Rush: (0%) 25% 50% 100% Sampled By:

Lab#	Client Sample ID	Matrix	Date/Time	Sample Notes	Analysis: TPH-418.1	BTEX-8020	Moisture	RCRA 8-Tot. Metals	Cation/ General Chem-Anion			
94459	1. Cell 1-01	soil	11/18/97 0945	ice	X		X					
60	2. Cell 1-02		11/18/97 0945	methanol		X						
61	3. Cell 2-01		11/18/97 0948	ice	X		X					
62	4. Cell 2-02		11/18/97 0948	methanol		X						
63	5. Cell 3-01		11/18/97 0955	ice	X		X					
64	6. Cell 3-02		11/18/97 0955	methanol		X						
65	7. Cell 4-01		11/18/97 10:03	ice	X		X					
66	8. Cell 4-02		11/18/97 10:03	methanol		X						
67	9. Cell 5		11/18/97 10:15	ice	X			X	X			
	10.											

Relinquished By	Date	Time	Received By	Date	Time
	11-18-97	10:00		11/19/97	10:00

Sample Receipt Notes

Temperature 4°C

Preserved Properly

COC Seals Intact

Method of Shipment

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal ✓
Accept Returned Sample ____

Submission # 9711-213

010 REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

FIGURE NO. 1 - Site Map

RHINO
Environmental Services, Inc.
300 Broadway NE • Albuquerque, New Mexico 87102
(505) 242-6464 • Fax (505) 247-4941

RECEIVED
SEP 03 1997
Environmental Bureau
Oil Conservation Division

August 28, 1997

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

SEP - 2 1997

Re: Goo-Yea Landfarm Facility:
Quarterly Report - August 1997

Dear Ms. Kieling: 2 > AND BACKGROUND SAMPLES FOR CELL 3 & 4

In accordance with the conditions set forth in the permit, enclosed please find the August 31,1997 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soils accepted from May 1, 1997 through July 31, 1997. One native soil sample was retrieved from the treatment area in Cell 1 and Cell 2. Both samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. Additional cells, numbered 3 and 4 have been constructed. Background samples for these cells were collected and submitted for the appropriate analysis. Figure No. 1 is a site map showing the location of sample collection. Analyses for Cell 1 and Cell 2 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted November 31, 1997. Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

Attachments

CC: Wayne Price
OCD, District - 1

MK 9/4/97

TABLE NO. 1 - Soil Log

RHINO ENVIRONMENTAL SERVICES, INC.

GOO-YEA LANDFARM FACILITY
QUARTERLY REPORT
August 31, 1997

Soil accepted from May 1, 1997 to July 31,1997.

A total of 3,292 cubic yards (cy) of soils were received during this quarter. A list of those soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

DATE	VOLUME	SOURCE	SECTION
05-07-97 to 05-28-97	1,650 cy	EOTT Energy Denton Gathering System Lea County, New Mexico	Cell 2
05-27-97	4.0 cy	Koch Pipeline, LP Krouch Station Lea County, New Mexico	Cell 2
06-26-97 to 07-02-97	1,638 cy	Bonneville Fuel Corporation Sec. 14, T17S, R37E Lea County, New Mexico	Cell 2 (1,238) Cell 1 (400)

TABLE NO. 2 - Analytical Results

Quarterly Soil Sampling:

One native soil sample was retrieved from Cell 1 and one background sample was collected from Cell 2. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1 sample was submitted for analysis by EPA method 418.1 and EPA method 8020. The Cell 2 background sample was submitted for analysis by EPA method 418.1, EPA method 8020, RCRA Total Metals, and General Chemistry. The analytical results are summarized in Table No. 1.

TABLE NO. 2
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 1A&B - QTR	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 2A&B- QTR	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 3 - BCK		< 10	< 1.22 Arsenic 104 Barium < 0.14 Cadmium < 0.15 Chromium 2.95 Lead < 1.00 Selenium < 0.60 Silver	125 Total Alkalinity 134 Bicarbonate 30.6 Calcium 9.0 Carbonate <0.2 Chloride 9.11 Magnesium <0.04 Mercury 8.4 Potassium 3.1 Sodium 7.3 Sulfate	9.2
Cell 4 - BCK		< 10	< 1.22 Arsenic 132 Barium < 0.14 Cadmium 2.20 Chromium 4.15 Lead < 1.00 Selenium < 0.60 Silver	130 Total Alkalinity 144 Bicarbonate 32.7 Calcium 6.6 Carbonate 0.74 Chloride 8.17 Magnesium <0.04 Mercury 7.27 Potassium 3.34 Sodium 4.6 Sulfate	9.0

Analyses for Cells 1 and 2 report TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred. Background samples collected from the center of treatment Cells 3 and 4 show trace amounts of Barium, Chromium and Lead as being naturally present in the soil.

APPENDIX A - Analytical Results

ANACHEM INC.
8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env. - Farmington
Date Received: August 7, 1997 at 10:00:00
Date Reported: August 26, 1997
Submission #: 9708000070
Project: GY 0897Q

SAMPLES The submission consisted of 6 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:

* ALKALINITY, TOTAL (EPA 310.1)
* ANION/CATION RATIO (CALCULATION)
* BICARBONATE ALKALINITY (EPA 310.1)
* BICARBONATE ION (EPA 310.1)
* BTEX (EPA 8020)
* CALCIUM/Ca (EPA 215.1)
* CARBONATE ION (EPA 310.1)
* CHLORIDE (EPA 325.3)
* MAGNESIUM/Mg (EPA 242.1)
* MERCURY DIGESTION (EPA 7470)
* MERCURY/Hg BY COLD VAPOR (EPA 7471)
* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO
* MICROWAVE DIGESTION (EPA 3051) SOLID
* pH (EPA 150.1)
* POTASSIUM/K (EPA 258.1)
* SODIUM/Na (EPA 273.1)
* SPECIFIC CONDUCTANCE (EPA 120.1)
* SULFATE (EPA 375.4)

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem, Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9708000070 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

88723 to 88727

ANACHEM INC.
8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env. - Farmington
Date Received: August 7, 1997 at 10:00:00
Date Reported: August 26, 1997
Submission #: 9708000070
Project: GY 0897Q

* TOTAL DISSOLVED SOLIDS (EPA 160.1)
* TOTAL RCRA METALS (EPA 6010)
* TPH (EPA 418.1)

Distribution Of Reports
1-Ms. Daniele Berardelli of Rhino Env. - Farmington
Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9708000070 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

88722 to 88727

Client Name: Rhino Env. - Farmington
Submission #: 9708000070
Project Name: GY 0897Q
Report Date: 08/26/97

Client Sample #: CELL 1A - QTR
Laboratory ID #: 88722 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *08/04/97*
Temperature (Celcius):4

TPH (EPA 418.1)
TPH Prep Date: 08/08/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: CELL 1B - QTR
Laboratory ID #: 88723 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *08/04/97*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: CELL 2A - QTR
Laboratory ID #: 88724 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *08/04/97*
Temperature (Celcius):4

TPH (EPA 418.1)
TPH Prep Date: 08/08/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: CELL 2B - QTR
Laboratory ID #: 88725 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *08/04/97*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Name: Rhino Env. - Farmington
Submission #: 9708000070
Project Name: GY 0897Q
Report Date: 08/26/97

Client Sample #: CELL 3 - BCK
Laboratory ID #: 88726 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *08/04/97*
Temperature (Celcius):4

	Results(mg/kg)	Detection Limit
ALKALINITY, TOTAL (EPA 310.1)		
Analyte		
Total Alkalinity	125	2
ANION/CATION RATIO (CALCULATION)	Results(-------)	Detection Limit
Analyte		
Anion/Cation Ratio	0.98	
BICARBONATE ALKALINITY (EPA 310.1)	Results(mg/kg)	Detection Limit
Analyte		
Bicarbonate Alkalinity	110	2
BICARBONATE ION (EPA 310.1)	Results(mg/kg)	Detection Limit
Analyte		
Bicarbonate, HCO3 (CaCO3)	134	
CALCIUM/Ca (EPA 215.1)	Results(mg/kg)	Detection Limit
Analyte		
Calcium	30.6	0.02
CARBONATE ION (EPA 310.1)	Results(mg/kg)	Detection Limit
Analyte		
Carbonate, CO3 (CaCO3)	9.0	
CHLORIDE (EPA 325.3)	Results(mg/kg)	Detection Limit
Analyte		
Chloride	<0.2	0.2
MAGNESIUM/Mg (EPA 242.1)	Results(mg/kg)	Detection Limit
Analyte		
Magnesium	9.11	0.02
MERCURY DIGESTION (EPA 7470)		
Mercury Digestion Date: 08/12/97		
MERCURY/Hg BY COLD VAPOR (EPA 7471)	Results(mg/kg)	Detection Limit
Analyte		
Mercury	<0.04	0.04
MICROWAVE DIGESTION (EPA 3051) SOLID		
Microwave Digestion Date: 08/11/97		
pH (EPA 150.1)	Results(---)	Detection Limit
Analyte		
pH For Liquid	9.2	0.05
POTASSIUM/K (EPA 258.1)	Results(mg/kg)	Detection Limit
Analyte		
Potassium	8.4	0.02
SODIUM/Na (EPA 273.1)	Results(mg/kg)	Detection Limit
Analyte		
Sodium	3.1	0.02

Client Name: Rhino Env. - Farmington
Submission #: 9708000070
Project Name: GY 0897Q
Report Date: 08/26/97

SPECIFIC CONDUCTANCE (EPA 120.1)

Analyte	Results(uS)	Detection Limit
Specific Conductance	256	

SULFATE (EPA 375.4)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	7.3	0.2

TOTAL DISSOLVED SOLIDS (EPA 160.1)

Analyte	Results(mg/l)	Detection Limit
Total Dissolved Solids	328	

(Results for TDS, conductivity and pH are for the extracts; 100g of each sample was extracted into 200ml of distilled water)

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<1.22	1.22
Barium	104	0.02
Cadmium	<0.14	0.14
Chromium	<0.15	0.15
Lead	2.95	0.8
Selenium	<1.0	1.0
Silver	<0.6	0.6

TPH (EPA 418.1)
TPH Prep Date: 08/08/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: CELL 4 - BCK
Laboratory ID #: 88727 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNTY, NM*
Sampling Date : *08/04/97*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	130	2

ANION/CATION RATIO (CALCULATION)

Analyte	Results(-------)	Detection Limit
Anion/Cation Ratio	0.97	

BICARBONATE ALKALINITY (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate Alkalinity	118	2

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	144	

CALCIUM/Ca (EPA 215.1)

Analyte	Results(mg/kg)	Detection Limit
Calcium	32.7	0.02

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	6.6	

Client Name: Rhino Env. - Farmington
Submission #: 9708000070
Project Name: GY 0897Q
Report Date: 08/26/97

CHLORIDE (EPA 325.3)

Analyte	Results(mg/kg)	Detection Limit
Chloride	0.737	0.02

MAGNESIUM/Mg (EPA 242.1)

Analyte	Results(mg/kg)	Detection Limit
Magnesium	8.17	0.02

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 08/11/97

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.04	0.04

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 08/11/97

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	9.0	0.05

POTASSIUM/K (EPA 258.1)

Analyte	Results(mg/kg)	Detection Limit
Potassium	7.27	0.02

SODIUM/Na (EPA 273.1)

Analyte	Results(mg/kg)	Detection Limit
Sodium	3.34	0.02

SPECIFIC CONDUCTANCE (EPA 120.1)

Analyte	Results(uS)	Detection Limit
Specific Conductance	244	

SULFATE (EPA 375.4)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	4.6	0.02

TOTAL DISSOLVED SOLIDS (EPA 160.1)

Analyte	Results(mg/l)	Detection Limit
Total Dissolved Solids	352	

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<1.22	1.22
Barium	132	0.02
Cadmium	<0.14	0.14
Chromium	2.20	0.15
Lead	4.15	0.8
Selenium	<1.0	1.0
Silver	<0.6	0.6

TPH (EPA 418.1)
TPH Prep Date: 08/08/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Report To: Rhino Environmental
Lab Number: 9708000070
Page 1 of 1

Project: GYO897Q

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8020	Howard Hayden	Solid	8/7/97	8/7/97

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	104	102	80-120	1.9	20.0
Toluene	100 ppb	106	103	80-120	2.8	20.0
Ethyl Benzene	100 ppb	111	108	80-120	2.7	20.0
Xylenes	300 ppb	114	111	80-120	2.6	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	132	126	4.5
CONCENTRATION UNITS:	TPH - ppm		
DETECTION LIMITS:	TPH - 10		

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	8/8/97	8/8/97

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Total Alkalinity	8/15/97	----	7.07	1.1	96.9	98.5
Chloride	8/21/97	----	0.424	5.1	107	115
Mercury	8/14/97	----	0.580	8.5	96	108
Sulfate	8/21/97	----	0.283	0.75	99	100
T.D.S.	8/21/97	----	9.0	1.0	93	98
Arsenic	8/11/97	----	0.048	1.0	87	86
Barium	8/11/97	----	0.028	0.6	108	107
Cadmium	8/11/97	----	0.035	1.1	83	82
Chromium	8/11/97	----	0.064	1.6	81	79
Lead	8/11/97	----	0.042	1.1	75	76
Selenium	8/11/97	----	0.156	4.3	85	80
Silver	8/11/97	----	0.078	1.3	89	87

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

Purchase Order/Chain Of Custody

Page 1 of 1.

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: Daniele Berardelli	Bill To: (Buyer) Rhino
Company: Rhino	Purchase Order #: GY-1997/08970
Address: 5 CR 6065	Address: PO Box 25547
City, State, Zip: Farmington, NM 87401	City, State, Zip: Alb., NM 87125
Phone: 505 598-9626 Fax: 505 598-9627	Phone: 505 242 6464 Fax: 505 242-4941

Project Name: GY08970 Quote #:

Project Location: Lea County City, State: NM

Date Due: Rush: (0%) 25% 50% 100% Sampled By:

Lab#	Client Sample ID		Matrix	Date/Time	Sample Notes	TPH (418.1)	BTEX (8020)	Anion/Cation	Tot. Metals/RCRA 8				
✓	1 Cell 1A-QTR	88722	Soil	8/4 12:15	ice	X							
DP 7-30-97	2 Cell 2 1B-QTR	23		8/4 12:30	methanol ice		X						
✓	3 Cell 2A-QTR	24		8/4 12:45	ice	X							
✓	4 Cell 2B-QTR	25		8/4 1:00	methanol ice		X						
✓	5 Cell 3-BCK	26		8/4 1:15	ice	X		X	X				
✓	6 Cell 4-BCK	27		8/4 1:30	ice	X		X	X				
	7.												
	8.												
	9.												
	10.												

Relinquished By	Date	Time	Received By	Date	Time	Sample Receipt Notes	
Steve Ory	9:00	9:20	Louis Herrera	8/6/97	9:20 AM	Temperature	4°C
	8-6		Brad Thornhill	8/7/97	10:00	Preserved Properly	
						COC Seals Intact	
						Method of Shipment	

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal ✓
Accept Returned Sample ___

Submission # 9708-70

OTO REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

RHINO ENVIRONMENTAL SERVICES, INC.

FIGURE NO. 1 - Site Map

RHINO ENVIRONMENTAL SERVICES, INC.

FIGURE 1 - SITE MAP

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Each cell is approximately 5 acres in size.

N
S

Cell 1	Cell 2	Cell 3	Cell 4
X	X	X	X

X denotes sample collection location

Not to Scale

RHINO
Environmental Services, Inc.
300 Broadway NE • Albuquerque, New Mexico 87102
(505) 242-6464 • Fax (505) 247-4941

June 9, 1997

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

Re: Goo-Yea Landfarm Facility:
Quarterly Report -May 1997

Dear Ms. Kieling:

In accordance with the conditions set forth in the permit, enclosed please find the May 1997 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico. Rhino would like to apologize for the tardiness of the report. Samples were collected and submitted for analysis on May 14, 1997, but due to laboratory delays, results were not received until

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soils accepted from February 1997 through April 30, 1997. One native soil sample was retrieved from the treatment area in Cell 1 and one background sample was collected from Cell 2. Both samples were collected at a depth of between 2 and 3 feet below the soil surface, placed on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of sample collections. Analysis for Cell 1 reports TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred. Background samples collected from the center of treatment Cell 2 show trace amounts of Barium, Cadmium, Chromium and Lead as being naturally present in the soil. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted August 31, 1997. Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

5 C.R. 6065
Farmington NM 87401

Attachments

CC: Wayne Price

RHINO ENVIRONMENTAL SERVICES, INC.

TABLE NO. 1 - Soil Log

RHINO ENVIRONMENTAL SERVICES, INC.

GOO-YEA LANDFARM FACILITY
QUARTERLY REPORT
May 1997

Soil accepted from February 1997 to April 31,1997.

A total of 1,061.4 cubic yards (cy) of soils were received during this quarter. A list of those soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

DATE	VOLUME	SOURCE	SECTION
2-17-97 to 2-22-97	208 cy	Sid Richardson Monostate Compressor Site Lea County, New Mexico	Cell 1
4-1-97 to 4-13-97	853.4 cy	BJ Services 2708 West County Road Hobbs, New Mexico 88240	Cell 2

RHINO ENVIRONMENTAL SERVICES, INC.

TABLE NO. 2 - Analytical Results

Quarterly Soil Sampling:

One native soil sample was retrieved from Cell 1 and one background sample was collected from Cell 2. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. Figure No. 1 is a Site Map showing the location of each sample. The Cell 1 sample was submitted for analysis by EPA method 418.1 and EPA method 8020. The Cell 2 background sample was submitted for analysis by EPA method 418.1, EPA method 8020, RCRA Total Metals, and General Chemistry. The analytical results are summarized in Table No. 1.

TABLE NO. 2
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	pH
Cell 1 - 02QTR	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10			
Cell 2 - 01BCK		< 10	< 3.05 Arsenic 56.5 Barium 4.78 Cadmium 16.3 Chromium 11.7 Lead < 2.50 Selenium < 1.50 Silver	450 Total Alkalinity 549 Bicarbonate 1020 Calcium <1.0 Carbonate 5.20 Chloride 6.00 Fluoride 521 Magnesium <0.02 Mercury <1.0 Nitrate 294 Potassium 500 Sodium 16.7 Sulfate	7.7

Analysis for Cell 1 reports TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred. Background samples collected from the center of treatment Cell 2 show trace amounts of Barium, Cadmium, Chromium and Lead as being naturally present in the soil.

APPENDIX A - Analytical Results

RHINO ENVIRONMENTAL SERVICES, INC.

FIGURE NO. 1 - Site Map

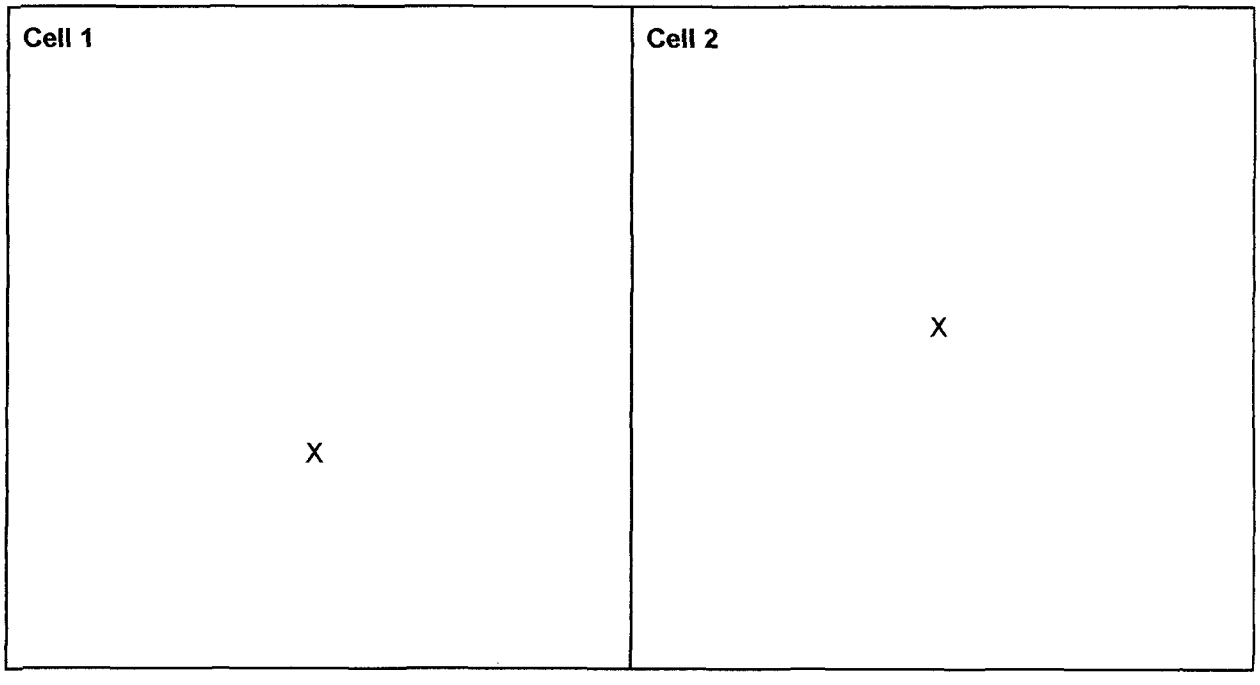
RHINO ENVIRONMENTAL SERVICES, INC.

FIGURE 1 - SITE MAP

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Two Active Cells, each approximately 5 acres

N
S



X denotes sample collection location

Not to Scale

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env.- Alb.
Date Received: May 15, 1997 at 10:00:00
Date Reported: June 4, 1997
Submission #: 9705000155
Project: GOODYEAR 0597

SAMPLES The submission consisted of 2 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:

* ALKALINITY, TOTAL (EPA 310.1)
* BICARBONATE ION (EPA 310.1)
* BTEX (EPA 8020)
* CALCIUM/Ca (EPA 215.1)
* CARBONATE ION (EPA 310.1)
* CHLORIDE (EPA 300.0)
* FLUORIDE (EPA 300.0)
* MAGNESIUM/Mg (EPA 242.1)
* MERCURY DIGESTION (EPA 7470)
* MERCURY/Hg BY COLD VAPOR (EPA 7471)
* MICROWAVE DIGESTION (EPA 3051) SOLID
* NITRATE (EPA 300.0)
* pH (EPA 150.1)
* POTASSIUM/K (EPA 258.1)
* SODIUM/Na (EPA 273.1)
* SULFATE (EPA 300.0)
* TOTAL RCRA METALS (EPA 6010)
* TPH (EPA 418.1)

Distribution Of Reports
1-Mr. Jerry Dunlap of Rhino Env.- Alb.
Ph. 505-242-6464 Fax 505-247-4941

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9705000155 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

84477 to 84478

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env.- Alb.
Date Received: May 15, 1997 at 10:00:00
Date Reported: June 4, 1997
Submission #: 9705000155
Project: GOODYEAR 0597

* TS-TOTAL SOLIDS (EPA 160.3)

Distribution Of Reports
1-Mr. Jerry Dunlap of Rhino Env.- Alb.
Ph. 505-242-6464 Fax 505-247-4941

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9705000155 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

84477 to 84478

Client Name: Rhino Env.- Alb.
Submission #: 9705000155
Project Name: GOODYEAR 0597
Report Date: 06/04/97

Client Sample #: 01BCK
Laboratory ID #: 84477 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *LEA COUNEY, NM*
Sampling Date : *05/14/97*
Temperature (Celcius):4

ALKALINITY, TOTAL (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Total Alkalinity	**450**	1.0

BICARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Bicarbonate, HCO3 (CaCO3)	**549**	1.0

CALCIUM/Ca (EPA 215.1)

Analyte	Results(mg/kg)	Detection Limit
Calcium	**1020**	0.5

CARBONATE ION (EPA 310.1)

Analyte	Results(mg/kg)	Detection Limit
Carbonate, CO3 (CaCO3)	<1.0	1.0

CHLORIDE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Chloride	**5.2**	1.0

FLUORIDE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Fluoride	**6.0**	1.0

MAGNESIUM/Mg (EPA 242.1)

Analyte	Results(mg/kg)	Detection Limit
Magnesium	**521**	0.5

MERCURY DIGESTION (EPA 7470)
Mercury Digestion Date: 05/19/97

MERCURY/Hg BY COLD VAPOR (EPA 7471)

Analyte	Results(mg/kg)	Detection Limit
Mercury	<0.02	0.02

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 06/03/97

NITRATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Nitrate	<1.0	1.0

pH (EPA 150.1)

Analyte	Results(----)	Detection Limit
pH For Liquid	**7.7**	0.05

POTASSIUM/K (EPA 258.1)

Analyte	Results(mg/kg)	Detection Limit
Potassium	**294**	0.5

SODIUM/Na (EPA 273.1)

Analyte	Results(mg/kg)	Detection Limit
Sodium	**500**	0.5

Client Name: Rhino Env.- Alb.
Submission #: 9705000155
Project Name: GOODYEAR 0597
Report Date: 06/04/97

SULFATE (EPA 300.0)

Analyte	Results(mg/kg)	Detection Limit
Sulfate	**16.7**	1.0

TOTAL RCRA METALS (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Arsenic	<3.05	3.05
Barium	**56.5**	0.050
Cadmium	**4.78**	0.350
Chromium	**16.3**	0.375
Lead	**11.7**	2.00
Selenium	<2.50	2.50
Silver	<1.50	1.50

TPH (EPA 418.1)
TPH Prep Date: 05/20/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

Client Sample #: 02QTR
Laboratory ID #: 84478 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar,Vial,4oz Jar/Aqua Lid*
Sampling Location: *LEA COUNEY, NM*
Sampling Date : *05/14/97*
Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 05/20/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	<10	10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	**88.7**	1.0

Report To: Rhino Environmental
Lab Number: 9705000155
Page 6 of 6

Project: GooYea 0597

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Total Alkalinity	5/21/97	----	28.3	2.4	93.3	98.7
Chloride	5/21/97	----	0.099	1.3	97.5	90.8
Fluoride	5/21/97	----	0.0236	1.4	91	96.5
Mercury	5/20/97	----	0.856	10	99	85
Nitrate	5/21/97	----	0.151	1.1	98	96.5
Sulfate	5/21/97	----	0.32	1	99	99
Arsenic	6/3/97	----	0.247	5.0	92	86
Barium	6/3/97	----	0.032	0.6	108	106
Cadmium	6/3/97	----	0.128	2.8	84	87
Chromium	6/3/97	----	---	---	93	93
Lead	6/3/97	----	0.037	0.7	85	85
Selenium	6/3/97	----	0.442	8.5	97	86
Silver	6/3/97	----	0.070	2.5	100	104
Total Solids	5/15/97	----	0.387	2.5	---	---

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

Report To: Rhino Environmental
Lab Number: 9705000155
Page 5 of 6

Project: GooYea 0597

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8020	Howard Hayden	Solid	5/16/97	5/16/97

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	98.5	100	80-120	1.5	20.0
Toluene	100 ppb	105	106	80-120	0.94	20.0
Ethyl Benzene	100 ppb	105	106	80-120	0.94	20.0
Xylenes	300 ppb	99.4	96.6	80-120	2.8	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	1024	1000	2.3
CONCENTRATION UNITS:	TPH - ppm		
DETECTION LIMITS:	TPH - 10		

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	5/20/97	5/20/97

Chain Of Custody/Order Form

Anachem,Inc. 8 Prestige Circle, Suite 104, Allen,Tx 75002 Phone: 214-727-9003 Fax: 214-727-9686

Report To: Daniele Berardelli	Bill To: Rhino
Company: Rhino	Purchase Order #: GY0597
Address: 5 CR 6065	Address: PO Box 25547
City, State, Zip: Farmington, NM 87401	City, State, Zip: Alb, NM 87125
Phone (505) 599-9626 Fax (505) 598-9627	Phone (505) 242-6464 Fax (505) 247-4941
Project Name: GooYea 0595 DB 5-14-97	
Project Location: GooYea	City,State: Lea County, NM
Date Due:	Rush: (0%) 50% 100% Sampled By: D. Berardelli + S. Dyer

Anachem Lab#	Client Sample ID	Matrix	Date/Time	Presrv/Temp	Sample Notes	Analysis: 8020 BTEX	418.1 TPH	Tot. Metals	General Chemistry	Moisture			
1 84477	01BCK	Soil	5-14/9:00	Ice	4°C		X	X	X				
2 84478	02QTR	Soil	5-14/8:50	Methanol Ice	↓	X	X			X			
3													
4													
5													
6													
7													
8													
9													
10													

Relinquished By	Received By	Date	Time	Delivery	Analyst
	Doris Pena	5/14/97	13:15		
	Brad Thomlinson	5/15/97	10:00		Logan

In the event that Anachem determines that a sample is hazardous, the client agrees to :
Pay For Sample Disposal X
Accept Returned Sample ___

Anachem Submission #: 9705-155

008 REV 10/94

Sample information is vital for proper login and reporting. After 65 days, a 3.5% late fee will be assessed for all unpaid submissions.

RHINO
Environmental Services, Inc.
300 Broadway NE • Albuquerque, New Mexico 87102
(505) 242-6464 • Fax (505) 247-4941

April 28, 1997

Ms. Martyne J. Kieling
NM Energy, Mineral and Natural Resources
Oil Conservation Division
Environmental Bureau
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153 1-800-499-8393
Fx: (505) 827-8177

Re: Goo-Yea Landfarm Facility:
Quarterly Report - April 1997

Dear Ms. Kieling:

In accordance with the conditions set forth in the permit, enclosed please find the April 1997 quarterly report for Rhino's Goo-Yea facility located in Lea County, New Mexico.

This report serves to maintain a written record of the amount of contaminated soil accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soils accepted from February 1997 through April 1997. One native soil sample was retrieved from the treatment area in Cell 1 and submitted to Anachem, Inc. for analysis. This report demonstrates the level of total petroleum hydrocarbons at 68 mg/kg. As we discussed during your site visit, I was not able to dig down to the required depth of three feet and feel the sample is not representative. This sample was collected at a depth of 1.5 to 2.0 feet below the native soil surface. Figure No. 1 is a site map showing the location of sample collection. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

A second sample will be collected from the same area at a depth of three feet. In addition, a background sample will be collected from the second treatment area, Cell 2. Sample collection is scheduled for the week of May 12, 1997. Results will be forwarded to you as soon as available.

Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli
Rhino Environmental Services, Inc.

1-800-499-8393
Farmington #

Wait for original Lab Documents
5/9/97
MJK

Attachments

MJK 5/6/97

TABLES

RHINO ENVIRONMENTAL SERVICES, INC.

GOO-YEA LANDFARM FACILITY
QUARTERLY REPORT
April 1997

Soil accepted from February 1997 to April 1997.

A total of 1,061.4 cubic yards (cy) of soils were received during this quarter. A list of those soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

DATE	VOLUME	SOURCE	SECTION
2-17-97 to 2-22-97	208 cy	Sid Richardson Monostate Compressor Site Lea County, New Mexico	Cell 1
4-1-97 to 4-13-97	853.4 cy	BJ Services 2708 West County Road Hobbs, New Mexico 88240	Cell 2

Quarterly Soil Sampling:

One native soil sample was retrieved from the treatment area 1.5 to 2 feet below the natural soil surface. Figure No. 1 is a Site Map showing the location of the sample. One sample was submitted for analysis by EPA method 418.1 and and EPA method 8020. The analytical results are summarized in Table No. 1.

TABLE NO. 2
Summary of Analytical Results from Native Soil Sampling

Sample ID	BTEX mg/kg	TPH mg/kg
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	68

I understand that original analytical report is preferred, however the original has not yet been received. A copy has been submitted as Appendix A of this report. If this is unacceptable, please let me know and the original will be promptly forwarded. The results of the native soil testing are not believed to be representative, therefore, the cell will be re-sampled.

APPENDIX A - ANALYTICAL RESULTS

ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Rhino Env.- Alb.
Date Received: April 4, 1997 at 09:43:55
Date Reported: April 8, 1997
Submission #: 9704000051
Project: GOO YEA 4/97

SAMPLES The submission consisted of 1 sample with sample I.D. shown in the attached data table.

TESTS The sample listed in the attached result pages were analyzed for:
* BTEX (EPA 8020)
* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO
* TPH (EPA 418.1)
* TS-TOTAL SOLIDS (EPA 160.3)

Distribution Of Reports
1-Mrs. Daniele Berardelli of Rhino Env.- Alb.
Ph. 505-242-6464 Fax 505-247-4941

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

C.E. Newton, Ph.D.
Chemist

Submission #: 9704000051 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

92523 to 92525

Client Name: Rhino Env.- Alb.
Submission #: 9704000051
Project Name: GOO YEA 4/97
Report Date: 04/08/97

Client Sample #: GOO YEA I
Laboratory ID #: 82523 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Aqua Lid*
Sampling Location: *GOO YEA LANDFARM, LEA COUNTY, NM*
Sampling Date : *04/03/97*
Temperature (Celcius): 4

TPH (EPA 418.1)
TPH Prep Date: 04/08/97

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	68	10

Client Sample #: GOO YEA II
Laboratory ID #: 82524 *Order Type: Normal Matrix: Soil*
Sample Container: *Methanol Jar*
Sampling Location: *GOO YEA LANDFARM, LEA COUNTY, NM*
Sampling Date : *04/03/97*
Temperature (Celcius): 4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: GOO YEA III
Laboratory ID #: 82525 *Order Type: Normal Matrix: Soil*
Sample Container: *Vial*
Sampling Location: *GOO YEA LANDFARM, LEA COUNTY, NM*
Sampling Date : *04/03/97*
Temperature (Celcius): 4

TS-TOTAL SOLIDS (EPA 160.3)

Analyte	Results(%)	Detection Limit
Total Solids	89.1	

Report To: Rhino Environmental-Alb.
Lab Number: 9704000051
Page 2 of 3

Project: GOO YEA 4/97

QUALITY CONTROL DATA

METHOD	ANALYST	MATRIX	DATE EXTRACTED	DATE ANALYZED
BTEX 8020	Howard Hayden	Solid	4/4/97	4/4/97

SPIKE COMPOUND	SPIKE AMOUNT	% REC 1	% REC 2	% REC QC LIMIT	% VAR.	% VAR QC LIMIT
Benzene	100 ppb	103	109	80-120	5.5	20.0
Toluene	100 ppb	105	110	80-120	4.5	20.0
Ethyl Benzene	100 ppb	107	113	80-120	5.3	20.0
Xylenes	300 ppb	107	113	80-120	5.3	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	68	66	2.9

CONCENTRATION UNITS: TPH - ppm

DETECTION LIMITS: TPH - 10

ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	4/8/97	4/8/97

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Total Solids	4/7/97	---	±0.707	0.8	---	---

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

Chain Of Custody/Order Form

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, Tx 75002 Phone: 214-727-9003 Fax: 214-727-9686

Report To: Daniele Berardelli	Bill To: Rhino Environmental
Company: Rhino Environmental	Purchase Order #: Goo Yea Quarterly
Address: 5 CR 6005	Address: PO Box 25547
City, State, Zip: Farmington, NM 87401	City, State, Zip: Alb., NM 87125
Phone: (505) 598-9626 Fax: (505) 598-9627	Phone: (505) 242-6464 Fax: (505) 247-4941
Project Name: Goo Yea 4/97	
Project Location: Goo Yea Landfarm	City, State: Lea County, NM
Date Due:	Rush: (0%) 50% 100% Sampled By:

Anachem Lab#	Client Sample ID	Matrix	Date/Time	Preserv/Temp	Sample Notes	Analysis: 418.1 TPH	8020 BTEX	Moisture
1 82523	Goo Yea I	Soil	4-3-97 1:45 pm	02 9-3-97		X		
2 24	Goo Yea II	Soil	4-3-97 1:45 pm	methanol			X	
3 25	Goo Yea III	Soil	4-3-97 1:45					X
4								
5								
6								
7								
8								
9								
10								

Relinquished By	Received By	Date	Time	Delivery	Analyst
		4/4/97	9:00		

In the event that Anachem determines that a sample is hazardous, the client agrees to :
Pay For Sample Disposal X
Accept Returned Sample ___

Anachem Submission #: 9704-51

008 REV 10/94

Sample information is vital for proper login and reporting. After 65 days, a 3.5% late fee will be assessed for all unpaid submissions.

FIGURE 1 - SITE MAP

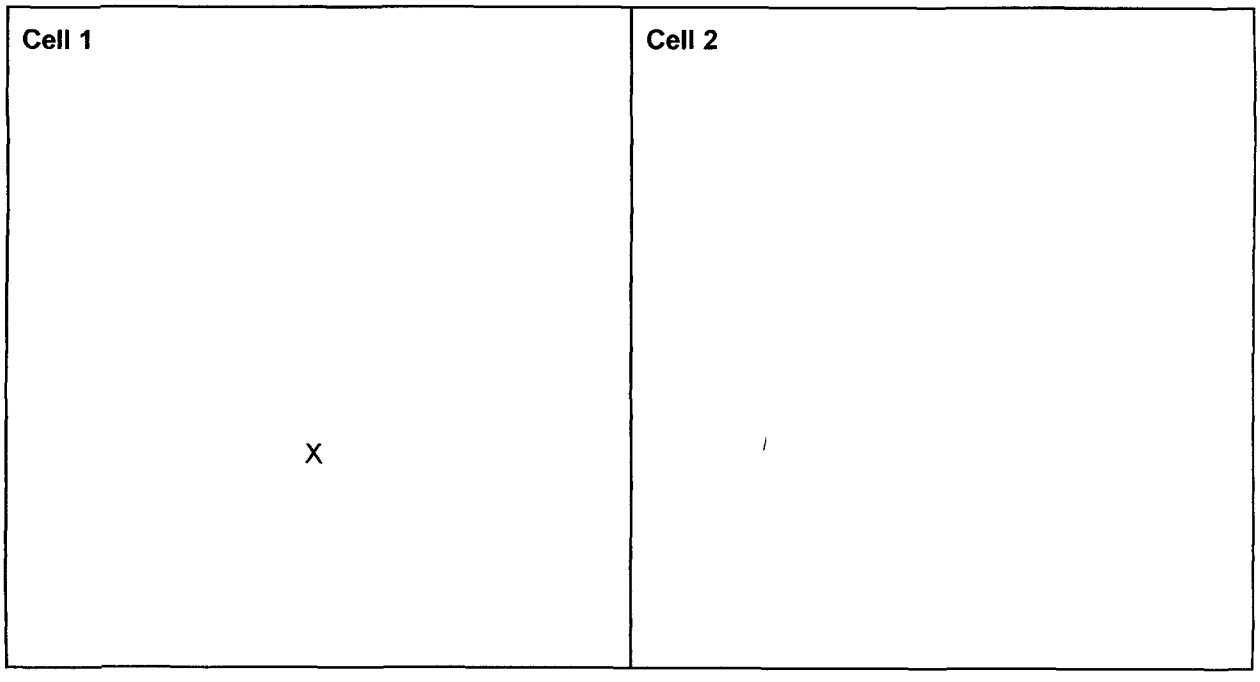
RHINO ENVIRONMENTAL SERVICES, INC.

FIGURE 1 - SITE MAP

Goo-Yea Commercial Landfarm
SE/4 of Section 14, Township 11 South, Range 38 East
Lea County, New Mexico

Two Active Cells, each approximately 5 acres

N
S



X denotes sample collection location

Not to Scale

American Environmental Network, Inc.

AEN I.D. 612311

December 20, 1996

RHINO ENVIRONMENTAL SERVICES
P.O. BOX 25547
ALBUQUERQUE

Project Name GOO-YEA
Project Number 1196

Attention: DANIELE BERARDELLI

On 12/5/96 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA methods 8020 and 418.1 were performed by American Environmental Network (NM) Inc., Albuquerque, NM.

All other analyses were perfomed by American Environmental Network (FL), Inc., 11 East Olive Rd, Pensacola, FL.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

American Environmental Network, Inc.

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 612311
PROJECT #	: 1196	DATE RECEIVED	: 12/5/96
PROJECT NAME	: GOO-YEA	REPORT DATE	: 12/20/96

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	CELL 1	SOIL	11/30/96

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

418.1

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 612311
PROJECT #	: 1196	DATE RECEIVED	: 12/5/96
PROJECT NAME	: GOO-YEA		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	CELL 1	NON-AQ	11/30/96	12/9/96	12/9/96	1

PARAMETER	DET. LIMIT	UNITS	01
PETROLEUM HYDROCARBONS, IR	20	MG/KG	< 20

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY - REAGENT BLANK
418.1

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 612311
PROJECT #	: 1196	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GOO-YEA	UNITS	: MG/KG

PARAMETER	AEN I.D.	SAMPLE RESULT
PETROLEUM HYDROCARBONS	120996	<20

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL
418.1

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 612311
PROJECT #	: 1196	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GOO-YEA	UNITS	: MG/KG

PARAMETER	AEN I.D.	SAMPLE RESULT	DUP. RESULT	% RPD	SPIKED SAMPLE	SPIKE CONC.	% REC
PETROLEUM HYDROCARBONS	612310-01	<20	<20	NA	151	150	101%

CHEMIST NOTES:
N/A

$$\%\ \text{Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 612133
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 612311
Project Name: RHINO
Project Location: 600 YEA 1196
Test: Group of Single Wetchem
Matrix: SOIL
QC Level: II

Lab ID: 001 Sample Date/Time: 30-NOV-96 0900
Client Sample Id: 612311-01 Received Date: 06-DEC-96

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
CONDUCTIVITY (120.1)	UMH/CM	N/A	1		NONE	N/A
FLUORIDE (340.2)	MG/KG	ND	4.0		FLS003	ED
NITRITE-NITRATE, NITROGEN (353.2)	MG/KG	2	2		N3S67S	MM
SULFATE (9038)	MG/KG	2100	1000	+	SWS015	AB
TOTAL SOLIDS (160.3)	%	97	0.1		TSS048	ED
CHLORIDE (325.3)	MG/KG	270	50		CIS012	RB

Comments:

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 612133
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 612311
Project Name: RHINO
Project Location: 600 YEA 1196
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
612311-01	CONDUCTIVITY (120.1)	UMH/CM	N/A
	NITRITE-NITRATE, NITROGEN (353.2)	MG/KG	2
	SULFATE (9038)	MG/KG	2100
	TOTAL SOLIDS (160.3)	%	97
	CHLORIDE (325.3)	MG/KG	270

American Environmental Network, Inc.

"WetChem Quality Control Report"

Parameter:	FLUORIDE	NO2NO3	SULFATE	TOTL SLDS	CHLORIDE
Batch Id:	FLS003	N3S67S	SWS015	TSS048	CIS012
Blank Result:	<0.2	<2	<10	<0.1	<50
Anal. Method:	340.2	353.2	9038	160.3	9252
Prep. Method:	N/A	N/A	N/A	N/A	N/A
Analysis Date:	13-DEC-96	12-DEC-96	17-DEC-96	11-DEC-96	17-DEC-96
Prep. Date:	13-DEC-96	12-DEC-96	17-DEC-96	09-DEC-96	17-DEC-96
Sample Duplication					
Sample Dup:	612133-1	612133-1	612054-1	612091-1	612054-1
Rept Limit:	<0.2	<2	<2000+	<0.1	<50
Sample Result:	<0.2	2.3	6060	1.1	666
Dup Result:	<0.2	2.3	5900	1.0	658
Sample RPD:	N/C	0G	160G	10	1
Max RPD:	0.2	2	2000+	12	8
Dry Weight%	N/A	N/A	N/A	N/A	N/A
Matrix Spike					
Sample Spiked:	612133-1	612133-1	612054-1	N/A	612054-1
Rept Limit:	<0.2	<2	<5000+	N/A	<50
Sample Result:	<0.2	2.3	6060		666
Spiked Result:	19.8	19.7	14200		3300
Spike Added:	16.0	20.0	10000		2750
% Recovery:	124	87	81		96
% Rec Limits:	70-129	75-125	51-151		80-109
Dry Weight%	N/A	N/A	N/A		N/A
ICV					
ICV Result:	1.15	1.91	21.3		93.6
True Result:	1.20	2.00	20.0		100.0
% Recovery:	96	96	107		94
% Rec Limits:	90-110	90-110	90-110		90-110
LCS					
LCS Result:					
True Result:					
% Recovery:					
% Rec Limits:					

American Environmental Network, Inc.

"Quality Control Comments"

Batch Id:	Comments:
FLS003	TIME ON: 12/13/96 @ 1540
FLS003	TIME OFF: 12/13/96 @ 1630
FLS003	ANALYST: ED
N3S67S	TIME ON: 12/12/96 @ 1317
N3S67S	TIME OFF: 12/12/96 @ 1430
N3S67S	ANALYST: MM
TSS048	TIME ON: 12/9/96 @ 1149
TSS048	TIME OFF: 12/11/96 @ 1247
TSS048	ANALYST: ED

American Environmental Network, Inc.

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest revision
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, 18TH ED., 1992
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ANNUAL BOOK OF ASTM STANDARDS, VOLUME 11.01, 1991.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	SG = SCOTT GRESHAM	RB = REBECCA BROWN
JL = JAN LECLEAR	NSB = NANCY S. BUTLER	MM = MIKE MCKENZIE
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American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 612133
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 612311
Project Name: RHINO
Project Location: 600 YEA 1196
Test: TOTAL ALKALINITY
Matrix: SOIL
QC Level: II

Lab ID: 001 Sample Date/Time: 30-NOV-96 0900
Client Sample Id: 612311-01 Received Date: 06-DEC-96

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ALKALINITY, TOTAL (2320B)	MG/KG	25000	1		ASS003	AB
PH (9045)	UNITS	7.7	NA	R	PHS243	MM
BICARBONATE, CACO3 (2330B)	MG/KG	25000	1		NONE	DPH
CARBONATE, CACO3 (2330B)	MG/KG	120	1		NONE	DPH
CARBON DIOXIDE, FREE AS CACO3	MG/KG	990	1		NONE	DPH
HYDROXIDE (2330B) AS CACO3	MG/KG	ND	1		NONE	DPH

Comments:
R = SAMPLE RECEIVED OUT OF HOLD TIME.

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 612133
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 612311
Project Name: RHINO
Project Location: 600 YEA 1196
Test: TOTAL ALKALINITY

Client Sample Id:	Parameter:	Unit:	Result:
612311-01	ALKALINITY, TOTAL (2320B)	MG/KG	25000
	PH (9045)	UNITS	7.7
	BICARBONATE, CACO3 (2330B)	MG/KG	25000
	CARBONATE, CACO3 (2330B)	MG/KG	120
	CARBON DIOXIDE, FREE AS CACO3	MG/KG	990

"WetChem Quality Control Report"

Parameter:	ALKALINITY	PH
Batch Id:	ASS003	PHS243
Blank Result:	<1	N/A
Anal. Method:	2320B	9045
Prep. Method:	N/A	N/A
Analysis Date:	18-DEC-96	06-DEC-96
Prep. Date:	18-DEC-96	06-DEC-96
Sample Duplication		
Sample Dup:	612133-1	612133-1
Rept Limit:	<1	N/A
Sample Result:	25332	7.71
Dup Result:	25387	7.74
Sample RPD:	0	0.03
Max RPD:	4	0.12
Dry Weight%	N/A	N/A
Matrix Spike		
Sample Spiked:	612133-1	N/A
Rept Limit:	<1	N/A
Sample Result:	25332	
Spiked Result:	23520	
Spike Added:	2000F	
% Recovery:	-91	
% Rec Limits:	80-113	
Dry Weight%	N/A	
ICV		
ICV Result:	107	10.06
True Result:	100	10.00
% Recovery:	107	101
% Rec Limits:	90-110	90-110
LCS		
LCS Result:		6.71
True Result:		6.87
% Recovery:		98
% Rec Limits:		97-103

American Environmental Network, Inc.

"Quality Control Comments"

Batch Id:	Comments:

PHS243 TIME ON: 12/6/96 @ 1353
PHS243 TIME OFF: 12/6/96 @ 1830
PHS243 ANALYST: MM

American Environmental Network, Inc.

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American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 612133
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 612311
Project Name: RHINO
Project Location: 600 YEA 1196
Test: Group of Single Metals
Matrix: SOIL
QC Level: II

Lab Id: 001 Sample Date/Time: 30-NOV-96 0900
Client Sample Id: 612311-01 Received Date: 06-DEC-96

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ALUMINUM (6010)	MG/KG	4500	6		L6S151	JR
CALCIUM (6010)	MG/KG	8300	100		I6S151	JR
COPPER (6010)	MG/KG	4	1		F6S151	JR
IRON (6010)	MG/KG	6400	2		N6S151	JR
POTASSIUM (6010)	MG/KG	1200	200		X6S151	JR
MAGNESIUM (6010)	MG/KG	1300	20		J6S151	JR
MANGANESE (6010)	MG/KG	74	1		G6S151	JR
SODIUM (6010)	MG/KG	43	20		16S151	JR
ZINC (6010)	MG/KG	14	2		56S151	JR

Comments:

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 612133
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 612311
Project Name: RHINO
Project Location: 600 YEA 1196
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
612311-01	ALUMINUM (6010)	MG/KG	4500
	CALCIUM (6010)	MG/KG	8300
	COPPER (6010)	MG/KG	4
	IRON (6010)	MG/KG	6400
	POTASSIUM (6010)	MG/KG	1200
	MAGNESIUM (6010)	MG/KG	1300
	MANGANESE (6010)	MG/KG	74
	SODIUM (6010)	MG/KG	43
	ZINC (6010)	MG/KG	14

American Environmental Network, Inc.

"Metals Quality Control Report"

Parameter:	ALUMINUM	CALCIUM	COPPER	IRON	POTASSIUM	MAGNESIUM
Batch Id:	L6S151	I6S151	F6S151	N6S151	X6S151	J6S151
Blank Result:	<6	<100	<1	<2	<200	<20
Anal. Method:	6010	6010	6010	6010	6010	6010
Prep. Method:	3050	3050	3050	3050	3050	3050
Analysis Date:	11-DEC-96	11-DEC-96	11-DEC-96	11-DEC-96	11-DEC-96	11-DEC-96
Prep. Date:	10-DEC-96	10-DEC-96	10-DEC-96	10-DEC-96	10-DEC-96	10-DEC-96
Sample Duplication						
Sample Dup:	612169-1	612169-1	612169-1	612169-1	612169-1	612169-1
Rept Limit:	<6	<1000+	<1	<2	<200	<20
Sample Result:	1500	320000	180	940	2000	2500
Dup Result:	1700	320000	180	1100	2000	2500
Sample RPD:	12	0	0	16	0	0
Max RPD:	20	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spike						
Sample Spiked:	612169-1	612169-1	612169-1	612169-1	612169-1	612169-1
Rept Limit:	<6	<1000+	<1	<2	<200	<20
Sample Result:	1400	320000	2	860	<200	770
Spiked Result:	1500	320000	180	940	2000	2500
Spike Added:	200F	2000F	200	200F	2000	2000
% Recovery:	50	0	89	40	100	87
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
ICV						
ICV Result:	5.1	9.9	5.1	5.1	51	5.0
True Result:	5.0	10	5.0	5.0	50	5.0
% Recovery:	102	99	102	102	102	100
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	90-110
LCS						
LCS Result:	6900	2800	58	16000	2300	1800
True Result:	6210	2760	58.2	15300	2020	1800
% Recovery:	111	101	100	105	114	100
% Rec Limits:	62-138	64-136	79-121	58-142	70-130	80-120

"Metals Quality Control Report"

Parameter:	MANGANESE	SODIUM	ZINC
Batch Id:	G6S151	16S151	56S151
Blank Result:	<1	<20	<2
Anal. Method:	6010	6010	6010
Prep. Method:	3050	3050	3050
Analysis Date:	11-DEC-96	11-DEC-96	11-DEC-96
Prep. Date:	10-DEC-96	10-DEC-96	10-DEC-96
Sample Duplication			
Sample Dup:	612169-1	612169-1	612169-1
Rept Limit:	<1	<20	<2
Sample Result:	180	2300	180
Dup Result:	180	2200	180
Sample RPD:	0	4	0
Max RPD:	20	20	20
Dry Weight%	N/A	N/A	N/A
Matrix Spike			
Sample Spiked:	612169-1	612169-1	612169-1
Rept Limit:	<1	<20	<2
Sample Result:	16	330	6
Spiked Result:	180	2300	180
Spike Added:	200	2000	200
% Recovery:	82	99	87
% Rec Limits:	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A
ICV			
ICV Result:	5.0	9.9	5.1
True Result:	5.0	10	5.0
% Recovery:	100	99	102
% Rec Limits:	90-110	90-110	90-110
LCS			
LCS Result:	240	430	110
True Result:	232	474	114
% Recovery:	103	91	96
% Rec Limits:	77-123	64-136	74-126

"Quality Control Comments"

Batch Id:	Comments:
L6S151	ANALYST: JR
L6S151	The results reported under "Sample Duplication" are the MS/MSD.
I6S151	ANALYST: JR
I6S151	The results reported under "Sample Duplication" are the MS/MSD.
F6S151	ANALYST: JR
F6S151	The results reported under "Sample Duplication" are the MS/MSD.
N6S151	ANALYST: JR
N6S151	The results reported under "Sample Duplication" are the MS/MSD.
X6S151	ANALYST: JR
X6S151	The results reported under "Sample Duplication" are the MS/MSD.
J6S151	ANALYST: JR
J6S151	The results reported under "Sample Duplication" are the MS/MSD.
G6S151	ANALYST: JR
G6S151	The results reported under "Sample Duplication" are the MS/MSD.
16S151	ANALYST: JR
16S151	The results reported under "Sample Duplication" are the MS/MSD.
56S151	ANALYST: JR
56S151	The results reported under "Sample Duplication" are the MS/MSD.

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
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DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
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# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
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J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
U = (FLORIDA DEP 'U' FLAG) - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED.
S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

FROM ANALYSIS REPORT:
RL= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
RPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS.

SW-846, 3rd Edition, latest revision.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 4th Edition.
Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992.
Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994.

GJ = GARY JACOBS
JLH = JAMES L. HERED
CD = CHRISTY DRAPER
JR = JOHN REED
LV = LASSANDRA VON APPEN

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020) METHANOL PRESERVATION
CLIENT : RHINO ENVIRONMENTAL SERVICES AEN I.D.: 612311
PROJECT # : 1196
PROJECT NAME : GOO-YEA

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	CELL 1	NON-AQ	11/30/96	NA	12/5/96	1

PARAMETER	DET. LIMIT	UNITS	01
BENZENE	0.025	MG/KG	< 0.025
TOLUENE	0.025	MG/KG	< 0.025
ETHYLBENZENE	0.025	MG/KG	< 0.025
TOTAL XYLENES	0.025	MG/KG	< 0.025
METHYL-t-BUTYL ETHER	0.13	MG/KG	< 0.13

SURROGATE:
BROMOFLUOROBENZENE (%) 102
SURROGATE LIMITS (80 - 120)
DRY WEIGHT (%) 94

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: BTEX, MTBE (EPA 8020)	AEN I.D.	: 612311
BLANK I. D.	: 120596	DATE EXRACTED	: NA
CLIENT	: RHINO ENVIRONMENTAL SERVICES	DATE ANALYZED	: 12/5/96
PROJECT #	: 1196	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GOO-YEA		

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
METHYL-t-BUTYL ETHER	MG/KG	<0.13

SURROGATE:
BROMOFLUOROBENZENE (%) 101
SURROGATE LIMITS: (80 - 120)
CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY QUALITY CONTROL
MSMSD

TEST	: BTEX, MTBE (EPA 8020)		
MSMSD #	: 612304-03	AEN I.D.	: 612311
CLIENT	: RHINO ENVIRONMENTAL SERVICES	DATE EXRACTED	: NA
PROJECT #	: 1196	DATE ANALYZED	: 12/5/96
PROJECT NAME	: GOO-YEA	SAMPLE MATRIX	: FP
		UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	0.50	0.55	110	0.56	112	2	(80 - 120)	20
TOLUENE	<0.025	0.50	0.55	110	0.55	110	0	(80 - 120)	20
ETHYLBENZENE	<0.025	0.50	0.54	108	0.54	108	0	(80 - 120)	20
TOTAL XYLENES	<0.025	1.50	1.65	110	1.66	111	1	(80 - 120)	20
METHYL-t-BUTYL ETHER	<0.13	1.00	0.96	96	1.02	102	6	(70 - 133)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 12/5 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

612133

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA 8 Total	RCRA Metals by TCLP (1311)	Anion/Cation Balance (see Attached page)	TOX	TOC	Gen Chemistry	Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)	TO-14	Gross Alpha/Beta	NUMBER OF CONTAINERS
612311 - 01	11/30/96	0900	Soil	1			X		X																

PROJECT INFORMATION	
PROJECT NUMBER:	Ph. 10
PROJECT NAME:	612311
QC LEVEL:	(STD) IV
QC REQUIRED:	MS MSD BLANK
TAT:	(STANDARD) RUSH!
DUE DATE:	12/17
RUSH SURCHARGE:	
CLIENT DISCOUNT:	
SPECIAL CERTIFICATION REQUIRED:	☐ YES ☐ NO

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

SAMPLES SENT TO:	
SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.
Signature: [signature] Time: 1200
Printed Name: John Caldwell Date: 12/5/96
Albuquerque

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date: 12/6/96
Company:

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: [signature] Time: 0734
Printed Name: R. ELSPERMAN Date: 12/6/96
Company: AEN-PN

Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777

Chain Of Custody/Order Form

Anachem,Inc. 8 Prestige Circle, Suite 104, Allen,Tx 75002 Phone: 214-727-9003 Fax: 214-727-9686

Report To: Daniele Berardelli	Bill To: Rhino
Company: Rhino Env. Svcs.	Purchase Order #: 600-Yea
Address: PO Box 25547	Address: same
City, State, Zip: Alb, NM 87125	City, State, Zip:
Phone: 242-6464 Fax: 247-4941	Phone: Fax:
Project Name: 600 Yea 1196	
Project Location: Hubbs	City,State: NM
Date Due:	Rush: (0%) 50% 100% Sampled By:

Analysis: 612311

Anachem Lab#	Client Sample ID	Matrix	Date/Time	Presrv/Temp	Sample Notes	8020 BTEX	418.1 TPH	Anion/Cation Balance	RCRA Total Metals				
1	Cell 1	Soil	11/3d96/09:20	9°c	-01	X	X	X	X				
2													
3													
4													
5													
6													
7													
8													
9													
10													

Relinquished By	Received By	Date	Time	Delivery	Analyst
		12-5-96	11:30	Hand	

In the event that Anachem determines that a sample is hazardous, the client agrees to :

Pay For Sample Disposal ____

Accept Returned Sample X

Anachem Submission #:

Sample information is vital for proper login and reporting. After 65 days, a 3.5% late fee will be assessed for all unpaid submissions.

RHINO
Environmental Services, Inc.
P.O. BOX 2327 • HOBBS, NM 88241 • PHONE & FAX (505) 392-4498

April 23, 1996

Chris Eustice
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Goo-Yea Landfarm
Quarterly Report

Dear Chris,

This report represents our 1st Quarterly Report for the above referenced facility. We have received soils only in one 5 acre cell to date. On 04/10/96 one soil sample was taken in Cell #1. The soil sample was retrieved 3 feet below the native soil surface and analyzed for BTEX and TPH. A summary of the analytical results are shown in Table No. 1. A copy of the analytical results are

TABLE NO. 1
SUMMARY OF ANALYTICAL RESULTS

SAMPLE ID	BENZENE (MB/KG)	TOLUENE (MG/KG)	ETHYL-BENZENE (MG/KG)	TOTAL BENZENES (MG/KG)	TOTAL PETROLEUM HYDROCARBONS (MG/KG)
GooYea Cell#1	<0.025	<0.025	<0.025	<0.025	<20

shown in Appendix A. The 2nd Quarterly Report will be submitted to you by July 23, 1996. If you have any questions, please call me at 505-392-4498.

Sincerely,

Royce Cooper, Jr.

cc: Wayne Price/OCD Hobbs

American Environmental Network, Inc.

RECEIVED APR 22 1996

AEN I.D. **604353**

April 19, 1996

Rhino Environmental
P.O. Box 2327
Hobbs, NM 88240

Project Name/Number: GOO YEA

Attention: Royce Cooper

On **04/12/96**, American Environmental Network (NM), Inc., (ADHS License No. AZ0015) (formerly ATI-NM), received a request to analyze **non-aqueous** sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

2709-D Pan American Freeway, NE • Albuquerque, NM 87107 • (505) 344-3777 • Fax (602) 344-4413

American Environmental Network, Inc.

CLIENT	: RHINO ENVIRONMENTAL	DATE RECEIVED	: 04/12/96
PROJECT #	: (NONE)		
PROJECT NAME	: GOO YEA	REPORT DATE	: 04/19/96

AEN ID: 604353

AEN #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	GOO YEA CELL #1	NON-AQ	04/10/96

---TOTALS---

MATRIX	#SAMPLES
NON-AQ	1

AEN STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)

CLIENT : RHINO ENVIRONMENTAL AEN I.D.: 604353

PROJECT # : (NONE)

PROJECT NAME : GOO YEA

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	GOO YEA CELL #1	NON-AQ	04/10/96	04/17/96	04/17/96	1

PARAMETER	UNITS	01
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
METHYL-t-BUTYL ETHER	MG/KG	<0.13

SURROGATE:

BROMOFLUOROBENZENE (%) 91

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

TEST	: BTEX, MTBE (EPA 8020)	AEN I.D.	: 604353
BLANK I.D.	: 041796	MATRIX	: NON-AQ
CLIENT	: RHINO ENVIRONMENTAL	DATE EXTRACTED	: 04/17/96
PROJECT #	: (NONE)	DATE ANALYZED	: 04/17/96
PROJECT NAME	: GOO YEA	DILUTION FACTOR	: 1

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
METHYL-t-BUTYL ETHER	MG/KG	<0.13
SURROGATE:		
BROMOFLUOROBENZENE (%)		96

American Environmental Network, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST	: BTEX, MTBE (EPA 8020)		
MSMSD #	: 60335711	AEN I.D.	: 604353
CLIENT	: RHINO ENVIRONMENTAL	DATE EXTRACTED	: 04/17/96
PROJECT #	: (NONE)	DATE ANALYZED	: 04/17/96
PROJECT NAME	: GOO YEA	SAMPLE MATRIX	: NON-AQ
REF. I.D.	: 60335711	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
BENZENE	<0.025	1.00	0.82	82	0.85	85	4
TOLUENE	<0.025	1.00	0.82	82	0.85	85	4
ETHYLBENZENE	<0.025	1.00	0.83	83	0.87	87	5
TOTAL XYLENES	<0.025	3.00	2.49	83	2.57	86	3
METHYL-t-BUTYL ETHER	<0.13	2.00	1.65	83	1.73	87	5

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: RHINO ENVIRONMENTAL	AEN I.D.	: 604353
PROJECT #	: (NONE)	DATE RECEIVED	: 04/12/96
PROJECT NAME	: GOO YEA	DATE ANALYZED	: 04/16/96
		SAMPLE MATRIX	: NON-AQ

PARAMETER	UNITS	01
PETROLEUM HYDROCARBONS, IR	MG/KG	<20

American Environmental Network, Inc.

GENERAL CHEMISTRY - REAGENT BLANK

CLIENT	: RHINO ENVIRONMENTAL	AEN I.D.	: 604353
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GOO YEA	UNITS	: MG/KG

PARAMETER	AEN I.D.	SAMPLE RESULT
PETROLEUM HYDROCARBONS	041696	<20

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: RHINO ENVIRONMENTAL	AEN I.D.	: 604353
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GOO YEA	UNITS	: MG/KG

PARAMETER	AEN I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC.	% REC
PETROLEUM HYDROCARBONS	60435301	<20	<20	NA	168	150	112

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc., Albuquerque, NM

San Diego ▪ Phoenix ▪ Seattle ▪ Pensacola ▪ Ft. Collins ▪ Portland ▪ Albuquerque

CHAIN OF CUSTODY

DATE: 4/10/96 PAGE 1 OF 1

ATI LAB I.D. 604353

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: Royce Cooper

COMPANY: Rhino Env. Consultants
ADDRESS: PO Box 2327
Hobbs, NM 88240
PHONE: 505-392-4498
FAX: 505-392-4498

BILL TO: Same
COMPANY:
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal	The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	NUMBER OF CONTAINERS
Goo Yea Cell #1	4/10/96	14:22	Soil	-01	X			X																2

PROJECT INFORMATION

PROJ. NO.: 8
PROJ. NAME: Goo Yea
P.O. NO.:
SHIPPED VIA: UPS

SAMPLE RECEIPT

NO. CONTAINERS: 2
CUSTODY SEALS: Y / N / NA
RECEIVED INTACT: Y
RECEIVED COLD: Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments: Please send 2 small coolers for soil samples

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY:
Signature: Time: 16:00	Signature: Time:	Signature: Time:
Printed Name: Royce Cooper Date: 4/10/96	Printed Name: Date:	Printed Name: Date:
Company: Rhino Phone: 392-4498	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time: 1115
Printed Name: Date:	Printed Name: Date:	Printed Name: John Caldwell Date: 4/10/96
Company:	Company:	Analytical Technologies, Inc.

RHINO
Environmental Services, Inc.
300 Broadway NE • Albuquerque, New Mexico 87102
(505) 242-6464 • Fax (505) 247-4941

November 5, 1996

Chris Eustice
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Goo-Yea Landfarm
Quarterly Monitoring Report

Dear Chris,

This report represents our 2nd Quarterly Report for the above referenced facility. We have only one 5 acre treatment cell. One sample was retrieved from Cell #1 on 10/25/96 3 feet below the native soil surface and analyzed for BTEX and TPH. A summary of the analytical results are shown in Table No. 1. A copy of the

TABLE NO. 1
SUMMARY OF ANALYTICAL RESULTS

SAMPLE ID	BENZENE (MG/KG)	TOLUENE (MG/KG)	ETHYL-BENZENE (MG/KG)	TOTAL XYLENES (MG/KG)	TOTAL PETROLEUM HYDROCARBONS (MG/KG)
GooYea Cell #1	<0.025	<0.025	<0.025	<0.025	<20

analytical results are attached. We will perform another Quarterly Monitoring Event in December 1996. The report will be submitted to you by the end of January 1997.

If you have any questions, please call me at 505-242-6464.

Sincerely,

Royce Cooper, Jr.

cc: Wayne Price/OCD Hobbs

American Environmental Network, Inc.

AEN I.D. 610386

November 1, 1996

RHINO ENVIRONMENTAL SERVICES
P.O. BOX 25547
ALBUQUERQUE, NM 87125

RECEIVED NOV - 4 1996

Project Name GOO YEA
Project Number (none)

Attention: ROYCE COOPER

On 10/28/96 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

American Environmental Network, Inc.

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 610386
PROJECT #	: (none)	DATE RECEIVED	: 10/28/96
PROJECT NAME	: GOO YEA	REPORT DATE	: 11/1/96

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	GOO YEA CELL #1	SOIL	10/25/96

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS
418.1

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 610386
PROJECT #	: (none)	DATE RECEIVED	: 10/28/96
PROJECT NAME	: GOO YEA		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	GOO YEA CELL #1	NON-AQ	10/25/96	10/29/96	10/29/96	1

PARAMETER	DET. LIMIT	UNITS	01
PETROLEUM HYDROCARBONS, IR	20	MG/KG	< 20

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY - REAGENT BLANK
418.1

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 610386
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GOO YEA	UNITS	: MG/KG

PARAMETER	AEN I.D.	SAMPLE RESULT
PETROLEUM HYDROCARBONS	102996	<20

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL
418.1

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 610386
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GOO YEA	UNITS	: MG/KG

PARAMETER	AEN I.D.	SAMPLE RESULT	DUP. RESULT	% RPD	SPIKED SAMPLE	SPIKE CONC.	% REC
PETROLEUM HYDROCARBONS	610386-01	<20	<20	N/A	144	150	96%

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : RHINO ENVIRONMENTAL SERVICES AEN I.D.: 610386
PROJECT # : (none)
PROJECT NAME : GOO YEA

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	GOO YEA CELL #1	NON-AQ	10/25/96	10/30/96	10/30/96	1

PARAMETER	DET. LIMIT	UNITS	01
BENZENE	0.025	MG/KG	< 0.025
TOLUENE	0.025	MG/KG	< 0.025
ETHYLBENZENE	0.025	MG/KG	< 0.025
TOTAL XYLENES	0.025	MG/KG	< 0.025

SURROGATE:
BROMOFLUOROBENZENE (%) 100
SURROGATE LIMITS (65 - 120)

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: BTEX (EPA 8020)	AEN I.D.	: 610386
BLANK I. D.	: 103096	DATE EXRACTED	: 10/30/96
CLIENT	: RHINO ENVIRONMENTAL SERVICES	DATE ANALYZED	: 10/30/96
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GOO YEA		

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025

SURROGATE:
BROMOFLUOROBENZENE (%) 100
SURROGATE LIMITS: (80 - 120)
CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY QUALITY CONTROL
MSMSD

TEST	: BTEX (EPA 8020)		
MSMSD #	: 610390-06	AEN I.D.	: 610386
CLIENT	: RHINO ENVIRONMENTAL SERVICES	DATE EXRACTED	: 10/30/96
PROJECT #	: (none)	DATE ANALYZED	: 10/30/96
PROJECT NAME	: GOO YEA	SAMPLE MATRIX	: NON-AQ
		UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	0.80	80	0.83	83	4	(68 - 120)	20
TOLUENE	<0.025	1.00	0.98	98	1.00	100	2	(64 - 120)	20
ETHYLBENZENE	<0.025	1.00	1.05	105	1.08	108	3	(49 - 127)	20
TOTAL XYLENES	<0.025	3.00	3.19	106	3.29	110	3	(58 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Chain Of Custody/Order Form

Anachem,Inc. 8 Prestige Circle, Suite 104, Allen,Tx 75002 Phone: 214-727-9003 Fax: 214-727-9686

Report To: Royce Cooper	Bill To: Same
Company: Rhind Environmental	Purchase Order #:
Address: PO Box 25547	Address:
City, State, Zip: Albuquerque NM 87125	City, State, Zip:
Phone: 242-6464 Fax: 247-~~4794~~ 4941	Phone: Fax:

Project Name: Goo Tea

Project Location: Lea County City,State: N.M.

Date Due: Normal Rush: 0% 50% 100% Sampled By: Royce Cooper

Analysis: 610 386

Anachem Lab#	Client Sample ID	Matrix	Date/Time	Presrv/Temp	Sample Notes	TPH 418.1	BTEX 8020	Cl TD
1	Goo Tea Cell #1	Soil	10/28/96 11:15			X	X	X
2								
3								
4								
5								
6								
7								
8								
9								
10								

Relinquished By	Received By	Date	Time	Delivery	Analyst
JC	John Caldwell	10/28/96	13:20	Hand	

In the event that Anachem determines that a sample is hazardous, the client agrees to :

Pay For Sample Disposal ___

Accept Returned Sample X

Anachem Submission #:

008 REV 10/94

Sample information is vital for proper login and reporting. After 65 days, a 3.5% late fee will be assessed for all unpaid submissions.

RHINO
Environmental Services, Inc.
300 Broadway NE • Albuquerque, New Mexico 87102
(505) 242-6464 • Fax (505) 247-4941

January 9, 1996

Mr. Chris Eustice
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

RE: Goo-Yea Landfarm
Quarterly Monitoring Report

Dear Mr. Eustice:

In accordance with the conditions set forth in the treatment zone monitoring and reporting requirements of the permit, enclosed please find the second quarterly report for Rhino's Goo-Yea Facility, located in Lea County, New Mexico. At this time, Rhino has only one active 5 acre treatment cell.

A sample was retrieved from Cell #1 at two to three feet below the native soil surface. The sample was analyzed for BTEX, TPH, general chemistry and total metals. A summary of the analytical results are shown in Table No. 1. A copy of the analytical results are attached.

If you have any questions, please call me at 505-242-6464.

Sincerely,

Joseph Menicucci
Rhino Environmental Services, Inc.

TABLE NO.1 - SUMMARY OF ANALYTICAL RESULTS

SAMPLE RESULT	MG/KG (ppm)
TPH/BTEX	
TPH	<20
Benzene	<0.025
Toluene	<0.025
Ethyl benzene	<0.025
Xylenes	<0.025
Total Metals	
Silver	ND
Arsenic	ND
Barium	210
Cadmium	ND
Chromium	5
Mercury	ND
Lead	5
Selenium	ND
General Chemistry	
Fluoride	ND
Nitrite-Nitrate, Nitrogen	2
Sulfate	2100
Total Solids	97%
Chloride	270
Alkalinity, Total	25000
pH	7.7
Bicarbonate, CACO3	25000
Carbonate, CACO3	120
Carbon Dioxide, Free as CACO3	990
Aluminum	4500
Calcium	8300
Copper	4
Iron	6400
Potassium	1200
Magnesium	1300
Manganese	74
Sodium	43
Zinc	14

American Environmental Network, Inc.

AEN I.D. 612311

January 3, 1996

RHINO ENVIRONMENTAL SERVICES
P.O. BOX 25547
ALBUQUERQUE

Project Name GOO-YEA
Project Number 1196

Attention: DANIELE BERARDELLI

On 12/5/96 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA methods 8020 and 418.1 were performed by American Environmental Network (NM) Inc., Albuquerque, NM.

All other analyses were perfomed by American Environmental Network (FL), Inc., 11 East Olive Rd, Pensacola, FL.

This report is being reissued in part to include 8 RCRA metals. We apologize for any inconvenience this delay may have occurred.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

2709-D Pan American Freeway, NE • Albuquerque, NM 87107 • (505) 344-3777 • Fax (505) 344-4413

American Environmental Network, Inc.

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 612311
PROJECT #	: 1196	DATE RECEIVED	: 12/5/96
PROJECT NAME	: GOO-YEA	REPORT DATE	: 12/20/96

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	CELL 1	SOIL	11/30/96

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 612625
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 612311
Project Name: RHINO
Project Location: 600 YEA 1196
Test: RCRA METALS
Matrix: SOIL
QC Level: II

Lab Id: 001
Client Sample Id: 612311-01
Sample Date/Time: 30-NOV-96 0900
Received Date: 17-DEC-96

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SILVER (6010)	MG/KG	ND	1		A6S151	JR
ARSENIC (6010)	MG/KG	ND	5		R6S151	JR
BARIUM (6010)	MG/KG	210	1		B6S151	JR
CADMIUM (6010)	MG/KG	ND	0.5		C6S151	JR
CHROMIUM (6010)	MG/KG	5	1		H6S151	JR
MERCURY (7471)	MG/KG	ND	0.02		M4S069	JR
LEAD (6010)	MG/KG	5	5		P6S151	JR
SELENIUM (6010)	MG/KG	ND	10		S6S151	JR

Comments:

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 612625
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 612311
Project Name: RHINO
Project Location: 600 YEA 1196
Test: RCRA METALS

Client Sample Id:	Parameter:	Unit:	Result:
612311-01	BARIUM (6010)	MG/KG	210
	CHROMIUM (6010)	MG/KG	5
	LEAD (6010)	MG/KG	5

American Environmental Network, Inc.

"Metals Quality Control Report"

Parameter:	SILVER	ARSENIC	BARIUM	CADMIUM	CHROMIUM	MERCURY
Batch Id:	A6S151	R6S151	B6S151	C6S151	H6S151	M4S069
Blank Result:	<1	<5	<1	<0.5	<1	<0.02
Anal. Method:	6010	6010	6010	6010	6010	7471
Prep. Method:	3050	3050	3050	3050	3050	7471
Analysis Date:	11-DEC-96	11-DEC-96	11-DEC-96	11-DEC-96	11-DEC-96	31-DEC-96
Prep. Date:	10-DEC-96	10-DEC-96	10-DEC-96	10-DEC-96	10-DEC-96	31-DEC-96
Sample Duplication						
Sample Dup:	612169-1	612169-1	612169-1	612169-1	612169-1	612625-1
Rept Limit:	<1	<5	<1	<0.5	<1	<0.02
Sample Result:	170	180	180	170	170	0.42
Dup Result:	170	180	180	170	170	0.45
Sample RPD:	0	0	0	0	0	7
Max RPD:	20	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spike						
Sample Spiked:	612169-1	612169-1	612169-1	612169-1	612169-1	612625-1
Rept Limit:	<1	<5	<1	<0.5	<1	<0.02
Sample Result:	<1	<5	5	<0.5	6	<0.02
Spiked Result:	170	180	180	170	170	0.42
Spike Added:	200	200	200	200	200	0.42
% Recovery:	85	90	88	85	82	100
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
ICV						
ICV Result:	5.0	4.9	5.0	4.9	5.1	0.0044
True Result:	5.0	5.0	5.0	5.0	5.0	0.0040
% Recovery:	100	98	100	98	102	110
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	80-120
LCS						
LCS Result:	76	59	260	74	77	2.30
True Result:	69.6	62.7	260	77.4	76.9	2.51
% Recovery:	109	94	100	96	100	92
% Rec Limits:	74-126	70-130	73-127	66-133	77-123	64-135

American Environmental Network, Inc.

"Metals Quality Control Report"

Parameter:	LEAD	SELENIUM
Batch Id:	P6S151	S6S151
Blank Result:	<5	<10
Anal. Method:	6010	6010
Prep. Method:	3050	3050
Analysis Date:	11-DEC-96	11-DEC-96
Prep. Date:	10-DEC-96	10-DEC-96
Sample Duplication		
Sample Dup:	612169-1	612169-1
Rept Limit:	<5	<10
Sample Result:	170	180
Dup Result:	170	180
Sample RPD:	0	0
Max RPD:	20	20
Dry Weight%	N/A	N/A
Matrix Spike		
Sample Spiked:	612169-1	612169-1
Rept Limit:	<5	<10
Sample Result:	<5	<10
Spiked Result:	170	180
Spike Added:	200	200
% Recovery:	85	90
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A
ICV		
ICV Result:	5.0	5.0
True Result:	5.0	5.0
% Recovery:	100	100
% Rec Limits:	90-110	90-110
LCS		
LCS Result:	110	100
True Result:	122	91.7
% Recovery:	90	109
% Rec Limits:	68-131	71-129

American Environmental Network, Inc.

"Quality Control Comments"

Batch Id:	Comments:
A6S151	ANALYST: JR
A6S151	The results reported under "Sample Duplication" are the MS/MSD.
R6S151	ANALYST: JR
R6S151	The results reported under "Sample Duplication" are the MS/MSD.
B6S151	ANALYST: JR
B6S151	The results reported under "Sample Duplication" are the MS/MSD.
C6S151	ANALYST: JR
C6S151	The results reported under "Sample Duplication" are the MS/MSD.
H6S151	ANALYST: JR
H6S151	The results reported under "Sample Duplication" are the MS/MSD.
M4S069	ANALYST: GJ
M4S069	The results reported under "Sample Duplication" are the MS/MSD.
P6S151	ANALYST: JR
P6S151	The results reported under "Sample Duplication" are the MS/MSD.
S6S151	ANALYST: JR
S6S151	The results reported under "Sample Duplication" are the MS/MSD.

American Environmental Network, Inc.

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
U = (FLORIDA DEP 'U' FLAG) - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED.
S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

FROM ANALYSIS REPORT:
RL= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
RPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS.

SW-846, 3rd Edition, latest revision.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 4th Edition.
Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992.
Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994.

GJ = GARY JACOBS
JLH = JAMES L. HERED
CD = CHRISTY DRAPER
JR = JOHN REED
LV = LASSANDRA VON APPEN

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 12/5 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

612625
~~612133~~ SF

CLIENT PROJECT MANAGER:

Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
612311 - 01	11/30/96	0900	Soil	1

Metals - TAL; Metals - PP List; Metals - RCRA & Total; RCRA Metals by TCLP (1311); Anion/Cation Balance (see Attached page); TOX; TOC; Gen Chemistry; Oil and Grease; BOD; COD; Pesticides/PCB (608/8080); Herbicides (615/8150); Base/Neutral Acid Compounds GC/MS (625/8270); Volatile Organics GC/MS (624/8240); Polynuclear Aromatics (610/8310); 8240 (TCLP 1311) ZHE; 8270 (TCLP 1311); TO-14; Gross Alpha/Beta; NUMBER OF CONTAINERS

612311 - 01			X		X																							1

PROJECT INFORMATION

PROJECT NUMBER: Ph. 10
PROJECT NAME: 612311
QC LEVEL: (STD) IV
QC REQUIRED: MS MSD BLANK
TAT: (STANDARD) RUSH!

DUE DATE: 12/17
RUSH SURCHARGE: _____
CLIENT DISCOUNT: _____
SPECIAL CERTIFICATION REQUIRED: ☐YES ☐NO

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

SAMPLES SENT TO:

SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.

Signature: John Caldwell Time: 1200
Printed Name: John Caldwell Date: 12/5/96
Company: Albuquerque

RECEIVED BY: 1.

Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.

Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.

Signature: Bob Elspeman Time: 0939
Printed Name: R. ELSPERMAN Date: 12/6/96
Company: AEN-PN

Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777

Chain Of Custody/Order Form

Anachem,Inc. 8 Prestige Circle, Suite 104, Allen,Tx 75002 Phone: 214-727-9003 Fax: 214-727-9686

Report To: Daniele Berardelli	Bill To: Rhino
Company: Rhino Env. Srvcs.	Purchase Order #: 600-Yea
Address: PO Box 25547	Address: Same
City, State, Zip: Alb, NM 87125	City, State, Zip:
Phone: 242-6464 Fax: 247-4941	Phone: Fax:

Project Name: 600 Yea 1196

Project Location: Hubbs City,State: NM

Date Due: Rush: (0%) 50% 100% Sampled By:

Analysis: ~~612311~~ 612133 612605

Anachem Lab#	Client Sample ID	Matrix	Date/Time	Presrv/Temp	Sample Notes	8020 BTEX	418.1 TPH	Anion/Cation Balance	RCRA Total Metals				
1	Cell 1	Soil	11/30/96/09:20	9°C	-01	X	X	X	X				
2													
3													
4													
5													
6													
7													
8													
9													
10													

Relinquished By	Received By	Date	Time	Delivery	Analyst
[illegible signature]	[illegible signature]	12-5-96	11:30	Hand	

In the event that Anachem determines that a sample is hazardous, the client agrees to :
Pay For Sample Disposal ___
Accept Returned Sample X

Anachem Submission #:

OUR REV 10/94

Sample information is vital for proper login and reporting. After 65 days, a 3.5% late fee will be assessed for all unpaid submissions.

RHINO
Environmental Services, Inc.
P.O. BOX 2327 • HOBBS, NM 88241 • PHONE & FAX (505) 392-4498

August 1, 1995

Chris Eustice
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Goo-Yea Landfarm
Background Sampling

Dear Chris,

Enclosed please find copies of the analytical report for background sampling at the above referenced facility. This should complete all pre-operational requirements for this facility.

If you have any questions, please call me at 505-392-4498.

Sincerely,

Royce Cooper, Jr.

cc: Wayne Price/OCD Hobbs

Analytical **Technologies,** Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **506441**

July 21, 1995

Rhino Environmental
P.O. Box 2327
Hobbs, NM 88240

Project Name/Number: GOO-YEA

Attention: Royce Cooper

On **06/30/95**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 418.1 analyses were performed by Analytical Technologies, Inc., Albuquerque, NM.

All other analyses were performed by Analytical Technologies, Inc., 5550 Morehouse Drive, San Diego, CA.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

Analytical Technologies, Inc.

CLIENT	: RHINO ENVIRONMENTAL	DATE RECEIVED	: 06/30/95
PROJECT #	: (NONE)		
PROJECT NAME	: GOO-YEA	REPORT DATE	: 07/21/95

ATI ID: 506441

	ATI SAN DIEGO ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	506441-01	BACKGROUND	NON-AQ	06/28/95

---TOTALS---

MATRIX	#SAMPLES
NON-AQ	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: RHINO ENVIRONMENTAL	ATI I.D.	: 506441
PROJECT #	: (NONE)	DATE RECEIVED	: 06/30/95
PROJECT NAME	: GOO-YEA	DATE ANALYZED	: 06/30/95

PARAMETER	UNITS	01
PETROLEUM HYDROCARBONS, IR	MG/KG	<20

Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: RHINO ENVIRONMENTAL	ATI I.D.	: 506441
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GOO-YEA	UNITS	: MG/KG

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC.	% REC
PETROLEUM HYDROCARBONS	50644001	<20	<20	NA	170	150	113

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.

ANALYTICAL SCHEDULE

Client : ANALYTICAL TECHNOLOGIES, INC.
Project # : 506441
Project Name: RHINO ENV./GOO-YEA

ATI I.D.: 507017

Analysis	Technique/Description
AMERICAN SOCIETY OF AGRONOMY 91-4 (CARBONATE IN SO	TITRATION
EPA 320.1 (BROMIDE)	TITRATION
EPA 340.2 (FLUORIDE)	ELECTRODE
EPA 6010 (ALUMINUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (ANTIMONY)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (BARIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (BERYLLIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (BORON)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (CALCIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (CHROMIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (COBALT)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (COPPER)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (IRON)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (LEAD)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (MAGNESIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (MANGANESE)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (MOLYBDENUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (NICKEL)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (POTASSIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (SILICON)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (SILVER)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (SODIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (VANADIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (ZINC)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (ARSENIC)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (CADMIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (SELENIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 6010 (THALLIUM)	INDUCTIVELY COUPLED ARGON PLASMA
EPA 9038 (SULFATE)	TURBIDIMETRIC
EPA 9045 (pH SOIL)	ELECTRODE
EPA 9253 (CHLORIDE)	TITRIMETRIC, SILVER NITRATE
MOD EPA 9050 (ELECTRICAL CONDUCTIVITY)	ELECTRODE

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

Client : ANALYTICAL TECHNOLOGIES, INC.
Project # : 506441
Project Name: RHINO ENV./GOO-YEA

ATI I.D.: 507017

Sample #	Client ID	Matrix	Date Sampled	Date Received
1	506441-01	SOIL	28-JUN-95	06-JUL-95

Parameter	Units	1
BROMIDE	MG/KG	<2.0
CHLORIDE	MG/KG	<5
CARBONATE	%	0.072
ELECTRICAL CONDUCTIVITY	UMHOS/CM	<20
FLUORIDE	MG/KG	<5
pH	UNITS	6.6
SULFATE	MG/KG	<100

Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

DUP/MS

Client : ANALYTICAL TECHNOLOGIES, INC.
Project # : 506441 ATI I.D. : 507017
Project Name: RHINO ENV./GOO-YEA

Parameters	REF I.D.	Units	Sample Result	Dup Result	RPD	Spiked Sample	Spike Conc	% Rec
BROMIDE	507017-01	MG/KG	<2.0	<2.0	0	99.4	99.5	100
CARBONATE	507017-01	%	0.072	0.078	8	N/A	N/A	N/A
CHLORIDE	507017-01	MG/KG	<5	<5	0	41.0	40.0	103
ELECTRICAL CONDUCTIVITY	507017-01	UMHOS/CM	<20	<20	0	N/A	N/A	N/A
FLUORIDE	507017-01	MG/KG	<5	<5	0	37	49	76
SULFATE	507017-01	MG/KG	<100	<100	0	202	201	100
pH	507017-01	UNITS	6.6	6.5	2	N/A	N/A	N/A

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Sample Result - Duplicate Result)*100/Average Result

GENERAL CHEMISTRY - QUALITY CONTROL

Analytical Technologies, Inc.

BLANK SPIKE

Client : ANALYTICAL TECHNOLOGIES, INC.
Project # : 506441
Project Name: RHINO ENV./GOO-YEA

ATI I.D. : 507017

Parameters	Blank Spike ID#	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BROMIDE	57564	MG/KG	<2.0	99.0	99	100
CHLORIDE	57662	MG/KG	<5	40.0	40.0	100
FLUORIDE	57666	MG/KG	<5	49	50	98
SULFATE	57606	MG/KG	<100	192	196	98

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Sample Result - Duplicate Result)*100/Average Result

Analytical Technologies, Inc.

METALS RESULTS

Client : ANALYTICAL TECHNOLOGIES, INC.
Project # : 506441
Project Name: RHINO ENV./GOO-YEA

ATI I.D.: 507017

Sample #	Client ID	Matrix	Date Sampled	Date Received
1	506441-01	SOIL	28-JUN-95	06-JUL-95

Parameter	Units	1
SILVER	MG/KG	<1.0
ALUMINUM	MG/KG	1910
ARSENIC	MG/KG	<1.0
BORON	MG/KG	<5.0
BARIUM	MG/KG	12.9
BERYLLIUM	MG/KG	<0.5
CALCIUM	MG/KG	315
CADMIUM	MG/KG	<0.5
COBALT	MG/KG	<1.0
CHROMIUM	MG/KG	2.8
COPPER	MG/KG	<1.0
IRON	MG/KG	2220
POTASSIUM	MG/KG	432
MAGNESIUM	MG/KG	362
MANGANESE	MG/KG	21.0
MOLYBDENUM	MG/KG	<1.0
SODIUM	MG/KG	14.8
NICKEL	MG/KG	1.5
LEAD	MG/KG	2.2
ANTIMONY	MG/KG	<3.0
SELENIUM	MG/KG	<1.0
SILICON	MG/KG	119
THALLIUM	MG/KG	<1.0
VANADIUM	MG/KG	5.0
ZINC	MG/KG	5.9

Analytical Technologies, Inc.

METALS - QUALITY CONTROL

DUP/MS

Client : ANALYTICAL TECHNOLOGIES, INC.
Project # : 506441
Project Name: RHINO ENV./GOO-YEA

ATI I.D. : 507017

Parameters	REF I.D.	Units	Sample Result	Dup Result	RPD	Spiked Sample	Spike Conc	% Rec
ALUMINUM	506385-01	MG/KG	7240	7340	1	8910	250	N/A*V
ANTIMONY	506385-01	MG/KG	<3.0	<3.0	0	46.6	50.0	93
ARSENIC	506385-10	MG/KG	3.2	3.1	3	52.1	49.9	98
BARIUM	506385-01	MG/KG	84.4	86.3	2	182	99.9	98
BERYLLIUM	506385-01	MG/KG	<0.5	<0.5	0	45.2	49.9	91
BORON	506385-01	MG/KG	<5.0	<5.0	0	215	250	86
CADMIUM	506385-10	MG/KG	<0.5	<0.5	0	47.3	49.9	95
CALCIUM	506385-01	MG/KG	1630	1580	3	2230	499	120
CHROMIUM	506385-01	MG/KG	14.5	14.6	1	60.2	49.9	92
COBALT	506385-01	MG/KG	5.0	5.0	0	96.8	99.9	92
COPPER	506385-01	MG/KG	10.1	10.2	1	56.3	49.9	93
IRON	506385-01	MG/KG	12100	12100	0	11800	99.9	N/A*V
LEAD	506385-10	MG/KG	16.8	24.9@C	39	64.2	50.0	95
MAGNESIUM	506385-01	MG/KG	3520	3530	0	3800	250	112
MANGANESE	506385-01	MG/KG	182	171	6	262	99.9	80
MOLYBDENUM	506385-01	MG/KG	<1.0	<1.0	0	88.2	99.9	88
NICKEL	506385-01	MG/KG	4.4	3.8	15	47.8	49.9	87
POTASSIUM	506385-01	MG/KG	3340	3330	0	3570	250	92
SELENIUM	506385-10	MG/KG	1.5	1.4	7	28.9	30.0	91
SILICON	506385-01	MG/KG	92	85	8	142	50	100*V
SILVER	506385-01	MG/KG	<1.0	<1.0	0	42.9	49.9	86
SODIUM	506385-10	MG/KG	317	322	2	971	625	105
THALLIUM	506385-10	MG/KG	<1.0	<1.0	0	58.8	49.9	118
VANADIUM	506385-01	MG/KG	35.7	36.0	1	127	99.9	91
ZINC	506385-10	MG/KG	46.5	45.0	3	88.0	50.0	83

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Sample Result - Duplicate Result)*100/Average Result

@C MATRIX HETEROGENEITY CONFIRMED BY SECOND ANALYSIS

METALS - QUALITY CONTROL

Analytical Technologies, Inc.

BLANK SPIKE

Client : ANALYTICAL TECHNOLOGIES, INC.
Project # : 506441
Project Name: RHINO ENV./GOO-YEA

ATI I.D. : 507017

Parameters	Blank Spike ID#	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
ALUMINUM	57608	MG/KG	<20	229	250	92
ANTIMONY	57608	MG/KG	<3.0	45.1	50.0	90
ARSENIC	57640	MG/KG	<1.0	48.7	50.0	97
BARIUM	57608	MG/KG	<0.5	96.3	100	96
BERYLLIUM	57608	MG/KG	<0.5	44.9	50.0	90
BORON	57608	MG/KG	<5.0	238	250	95
CADMIUM	57640	MG/KG	<0.5	48.0	50.0	96
CALCIUM	57608	MG/KG	<2.5	480	500	96
CHROMIUM	57608	MG/KG	<0.5	47.6	50.0	95
COBALT	57608	MG/KG	<1.0	95.3	100	95
COPPER	57608	MG/KG	<1.0	46.1	50.0	92
IRON	57608	MG/KG	<0.5	92.5	100	93
LEAD	57608	MG/KG	<1.5	47.8	50.0	96
MAGNESIUM	57608	MG/KG	<0.5	241	250	96
MANGANESE	57608	MG/KG	<0.5	95.3	100	95
MOLYBDENUM	57608	MG/KG	<1.0	92.0	100	92
NICKEL	57608	MG/KG	<1.0	45.7	50.0	91
POTASSIUM	57608	MG/KG	<5.0	235	250	94
SELENIUM	57640	MG/KG	<1.0	28.2	30.0	94
SILICON	57608	MG/KG	<40	266	250	106
SILVER	57608	MG/KG	<1.0	44.1	50.0	88
SODIUM	57637	MG/KG	<5.0	600	625	96
THALLIUM	57640	MG/KG	<1.0	59.4	50.0	119
VANADIUM	57608	MG/KG	<0.5	94.7	100	95
ZINC	57608	MG/KG	<2.0	45.2	50.0	90

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Sample Result - Duplicate Result)*100/Average Result

Analytical Technologies, Inc.

DATE LISTING FOR INORGANICS FOR PROJECT ID ANATEC01
FOR ACCESSIONS RECEIVED WITHIN THE LAST 90 DAYS
ACCESSION # 507017

Project Id: ANATEC01 Proj Name : RHINO ENV./GOO-YEA
Proj Num : 506441 Accession : 507017

Test: AMERICAN SOCIETY OF AGRONOMY 91-4 (CARBONATE IN SOIL)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	14-JUL-95	N/A

Test: EPA 320.1 (BROMIDE)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	11-JUL-95	N/A

Test: EPA 340.2 (FLUORIDE)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	14-JUL-95	N/A

Test: EPA 9038 (SULFATE)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 9045 (pH SOIL)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Dat
1	SOIL	506441-01	28-JUN-95	06-JUL-95	10-JUL-95	N/A

Test: EPA 9253 (CHLORIDE)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Dat
1	SOIL	506441-01	28-JUN-95	06-JUL-95	14-JUL-95	N/A

Test: MOD EPA 9050 (ELECTRICAL CONDUCTIVITY)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Dat
1	SOIL	506441-01	28-JUN-95	06-JUL-95	07-JUL-95	N/A

Test: EPA 6010 (ALUMINUM)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Dat
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (ANTIMONY)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Da

Analytical Technologies, Inc.

DATE LISTING FOR INORGANICS FOR PROJECT ID ANATEC01
FOR ACCESSIONS RECEIVED WITHIN THE LAST 90 DAYS
ACCESSION # 507017

Project Id: ANATEC01 Proj Name : RHINO ENV./GOO-YEA
Proj Num : 506441 Accession : 507017

Test: EPA 6010 (ANTIMONY)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (BARIUM)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (BERYLLIUM)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (BORON)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (CALCIUM)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (CHROMIUM)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (COBALT)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (COPPER)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (IRON)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Analytical Technologies, Inc.

DATE LISTING FOR INORGANICS FOR PROJECT ID ANATEC01
FOR ACCESSIONS RECEIVED WITHIN THE LAST 90 DAYS
ACCESSION # 507017

Project Id: ANATEC01 Proj Name : RHINO ENV./GOO-YEA
Proj Num : 506441 Accession : 507017

Test: EPA 6010 (LEAD)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (MAGNESIUM)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (MANGANESE)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (MOLYBDENUM)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (NICKEL)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Date
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (POTASSIUM)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Dat
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (SILICON)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Dat
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (SILVER)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed	Prep Dat
1	SOIL	506441-01	28-JUN-95	06-JUL-95	12-JUL-95	N/A

Test: EPA 6010 (SODIUM)

ATI #	Matrix	Client ID	Sampled	Received	Analyzed.	Prep Dat
1	SOIL	506441-01	28-JUN-95	06-JUL-95	13-JUL-95	N/A

Analytical**Technologies,**Inc. Albuquerque, NM

Chain of Custody

DATE _____ PAGE ___ OF ___

NETWORK PROJECT MANAGER: ~~LETITIA KRAKOWSKI~~ Kim McNeill

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: K. McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)	Fluoride, Bromide, Ca, K, Mg, Na, Cl	632/632 MOD	619/619 MOD	610/8310	Carbonate, Sulfate, pH, Conductiv.	8240 /TCLP 1311) ZHE	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)	Metals: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Si, Ag, Na, Tl, V, Zn	~~TICE~~	~~ASBESTOS~~	BOD	TOTAL COLIFORM	FECAL COLIFORM	GROSS ALPHA/BETA	RADIUM 226/228	AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
506441-01	6/28	10⁰⁰	NA	01						X				X				X										

PROJECT INFORMATION

PROJECT NUMBER: 506441
PROJECT NAME: GCC - VEA
QC LEVEL: (STD) IV
QC REQUIRED: (MS) MSD BLANK
TAT: (STANDARD) RUSH!

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	3
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND./COLD	Y / 2.5°
LAB NUMBER	507017

DUE DATE: 7/20
RUSH SURCHARGE: Ø
CLIENT DISCOUNT: Ø %

IWO
LK548

SAMPLES SENT TO:
SAN DIEGO X
FT. COLLINS
RENTON
PENSACOLA
PORTLAND
PHOENIX
FIBERQUANT

RELINQUISHED BY: 1.
Signature: K. McNeill Time: 4⁰⁰
Printed Name: K. McNeill Date: 7/5/95
Analytical Technologies, Inc. Albuquerque
RECEIVED BY: (LAB) 1.
Signature: Graham Time: 930
Printed Name: S. Graham Date: 7/6/95
Company: ATI-SD

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date
Company:
RECEIVED BY: (LAB) 2.
Signature: Time:
Printed Name: Date:
Company:

Analytical Technologies, Inc., Albuquerque, NM

San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 6/28/95 PAGE 1 OF 1

ATI LAB I.D. 50641

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: Royce Cooper

COMPANY: Rhino

ADDRESS: PO Box 2327
Hobbs NM 88240

PHONE: 505-392-4498

FAX: 392-4498

BILL TO: Same

COMPANY:

ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
BACKGROUND	6/28/95	10:00	Soil	01

Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)	MAJOR CATIONS	MAJOR ANIONS	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.			Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal	Heavy Metals 6010	The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	NUMBER OF CONTAINERS
X				X	X																	X				4

PROJECT INFORMATION

PROJ. NO.: ~~600-YEA~~

PROJ. NAME: 600-YEA

P.O. NO.:

SHIPPED VIA: USP

SAMPLE RECEIPT

NO. CONTAINERS	4
CUSTODY SEALS	Y (N) NA
RECEIVED INTACT	X
RECEIVED COLD	N

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments: WITNESS Wayne Nance 10:10 6/28/95

SAMPLED & RELINQUISHED BY: 1.

Signature: Time: 16:05

Printed Name: Royce Cooper Date: 6/28/95

Company: Rhino Phone: 392-4498

RELINQUISHED BY: 2.

Signature: Time:

Printed Name: Date:

Company:

RELINQUISHED BY: 3.

Signature: Time:

Printed Name: Date:

Company:

RECEIVED BY: 1.

Signature: Time:

Printed Name: Date:

Company:

RECEIVED BY: 2.

Signature: Time:

Printed Name: Date:

Company:

RECEIVED BY:(LAB) 3.

Signature: Time: 15:55

Printed Name: C.F. Freeland Date: 6/30/95

Analytical Technologies, Inc.

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