NM1 - 15

MONITORING REPORTS

YEAR(S):

2002 - 2000



AN 2 8 2002 Environmental Bureau Oil Conservation Division

MY 280

200 Sunset Drive, Suite D, El Paso, Texas Phone (915) 842-9911 • Fax (915) 842-9933 www.rhinoservices.net

January 22, 2002

Ms. Martyne Keiling NM Energy, Mineral and Natural Resources Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505 Ph: (505) 476-3488 Fx: (505) 476-3462

Re: Goo-Yea Landfarm Facility: Quarterly Report –November 2001 & February 2002

Dear Ms. Keiling:

In accordance with the conditions of our permit, 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.

One native soil sample was retrieved from each active treatment area, Cells 1, 2, 3, 4, and 5. 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. Table 1 includes all soil accepted from November 1, 2001 to January 31, 2002. Figure No. 1 is a site map showing the location of sample collection. The analytical results are summarized in Table 2. A copy of the analytical report is submitted as Appendix A.

As this report is late in arriving and samples were not collected until this month, Rhino respectfully requests that this report serve to meet the requirements for both November and February. In the event this acceptable to the OCD, $\sqrt{a^h}$

Rhino's next quarterly report will be submitted May 2002. Please call me if you have any questions or require additional information.

Sincere Daniele Berardelli

Rhino Environmental Services, Inc. for Rhino Oilfield Disposal, Inc. 200 Sunset Dr., Ste. 200 El Paso, TX 79922 (915) 842-9911

Attachments



RECEIVED

JAN 2 8 2002

Environmental Bureau Oil Conservation Division

RHINO GOO-YEA FARM QUARTERLY REPORT January 2002

TABLE 1 - SOIL

Soil accepted from November 1, 2001 to January 31, 2002.

A total of 2,560 cubic yards (cy) of soil were received during this quarter. Exempt soils are separated from nonexempt soils by berms. A list of these soils are shown in the table below. All soils were disked on a regular basis.

DATE	VOLUME	SOURCE	ТҮРЕ
11-02-01 to 11-12-01	2,368 cy	Cimarron Exploration	Non-Exempt
		Buckshot Frost Lease	Cell 5
		Cochran County, TX	
01-09-02 to 01-10-02	192 cy	Williams Production RMT Company	Exempt
		Bluitt San Andres Unit	Cell 4
		4 miles west of Bledsoe, TX	
		Sec. 18, T8S, R38E and Sec. 24, T8S, R37E	
		Roosevelt County, NM	

TABLE NO. 1



TABLE NO. 1 - Analytical Results

Quarterly Native Soil Sampling:

One or two native soil samples were retrieved from Cell 1, Cell 2, Cell 3, Cell 4 and 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 samples were submitted for analysis by EPA method 418.1 and EPA method 8020. The analytical results are summarized in Table No. 1.

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry 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	EAST END < 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10		
	WEST END <0.40 Benzene <0.50 Toluene <0.50 Ethylbenzene <0.50 Xylenes	<10		
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10		
Cell 5	WEST END	<10		
	<0.40 Benzene <0.50 Toluene <0.50 Ethyl Benzene <0.50 Xylenes			
	EAST END	<10		
	<0.40 Benzene <0.50 Toluene <0.50 Ethyl Benzene <0.50 Xylenes			
íl				

Analyses for Cells 1, 2, 3, 4 and 5 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.



Cell 1	Cell 2	Cell 3	Cell 4	Cell 5
x				x x
	X	x x	X	^ ^

X denotes sample collection location

Not to Scale



APPENDIX A - ANALYTICAL RESULTS





RECEIVED

JAN 2 8 2002

Environmental Bureau Oil Conservation Division

January 14, 2002

Daniele Berardelli Rhino- El Paso 200 Sunset Dr. Suite D El Paso, TX 79922 TEL: 915-842-9911 915-842-9933

Work Order: 0201100 Project: Goo-Yea Land Farm

Dear Client:

Anachem, Inc. received 7 samples on 01/09/2002 for the analyses presented in the following report.

The samples were analyzed for the following tests:

BTEX by EPA 8021 - Solid 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.

020 To 0201100-07A

Page /____Of 9

Date: 14-Jan-02

				Pren Dat	α: Δnalvst: AT
Analyses		Result	Limit	Units	Date Analyzed
Lab ID:	0201100-01A			Matrix:	SOIL
Project:	Goo-Yea Land Farm			Collection Date:	01/04/2002
Work Order:	0201100			Location:	Lea Co
CLIENT:	Rhino- El Paso			Client Sample ID:	Cell 3 - East End

BTEX BY EPA 8021 - SOLID			Prep Date:	Analyst: Al
BatchID: R15118				
Benzene	ND	0.4	mg/Kg	01/10/2002
Toluene	ND	0.5	mg/Kg	01/10/2002
Ethylbenzene	ND	0.5	mg/Kg	01/10/2002
Xylenes, Total	ND	0.5	mg/Kg	01/10/2002
TPH BY EPA 418.1 - SOLID			Prep Date: 01/10/2002	Analyst: Sub
BatchID: R15133				-
Petroleum Hydrocarbons, TR	ND	10	mg/Kg	01/11/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page <u>2</u> Of <u>9</u>

.

Petroleum Hydrocarbons, TR

T

Date: 14-Jan-02

CLIENT: Work Order: Project: Lab ID:	Rhino- El Paso 0201100 Goo-Yea Land Farm 0201100-02A			Client Sample ID: Location: Collection Date: Matrix:	Cell 2 - Cent Lea Co 01/04/2002 SOIL	er
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8 BatchID: R15118				Prep Dat	e:	Analyst: AT
Benzene	5	ND	0.4	mg/Kg		01/10/2002
Toluene		ND	0.5	mg/Kg		01/10/2002
Ethylbenzene		ND	0.5	mg/Kg		01/10/2002
Xylenes, Total		ND	0.5	mg/Kg		01/10/2002
TPH BY EPA 41 BatchID: R1513				Prep Dat	e: 01/10/2002	Analyst: Sub

10

mg/Kg

ND

Qualifiers:

ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page <u>3</u> Of <u>9</u>

01/11/2002

Date: 14-Jan-02

CLIENT: Work Order: Project:	Rhino- El Paso 0201100 Goo-Yea Land Farm			Client Sample ID: Location: Collection Date:	Cell 1 - Cent Lea Co 01/04/2002	er
Lab ID:	0201100-03A			Matrix:	SOIL	
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8				Prep Dat	e:	Analyst: AT
BatchID: R15118	8		0.4	malla		01/10/2000
Benzene		ND	0.4	mg/Kg		01/10/2002
Toluene		ND	0.5	mg/Kg		01/10/2002
Ethylbenzene		ND	0.5	mg/Kg		01/10/2002
Xylenes, ⊤otal		ND	0.5	mg/Kg		01/10/2002
TPH BY EPA 41	8.1 - SOLID			Prep Dat	e: 01/10/2002	Analyst: Sub
	3					
BatchID: R1513	0					

Qualifiers:

ł

ND - Not Detected at the Reporting Limit

Page <u>4</u> Of <u>9</u>

Date: 14-Jan-02

a Land Farm]	Location: Collection Date:	Cell 3 - West Lea Co 01/04/2002 SOIL	t End
Result	Limit	Units		Date Analyzed
ID		Prep Dat	9:	Analyst: AT
ND	0.4	mg/Kg		01/10/2002
ND	0.5	mg/Kg		01/10/2002
ND	0.5	mg/Kg		01/10/2002
ND	0.5	mg/Kg		01/10/2002
D		Prep Dat	e: 01/10/2002	Analyst: Sub
R ND	10	mg/Kg		01/11/2002
	ID ND ND ND ND) a Land Farm ())-04A () .ID ().5 ND ().5 ND ().5 ND ().5	ND 0.4 mg/Kg ND 0.4 mg/Kg ND 0.4 mg/Kg ND 0.5 mg/Kg	Interview Location: Lea Co a Land Farm Collection Date: 01/04/2002)-04A Matrix: SOIL Result Limit Units ID Prep Date: ND 0.4 mg/Kg ND 0.5 mg/Kg

Qualifiers:

ND - Not Detected at the Reporting Limit

Page <u>5</u> Of <u>9</u>



2

Date: 14-Jan-02

CLIENT: Work Order: Project: Lab ID:	Rhino- El Paso 0201100 Goo-Yea Land Farm 0201100-05A			Client Sample ID: Location: Collection Date: Matrix:	Cell 4 - Cent Lea Co 01/04/2002 SOIL	ter
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA & BatchID: B15118				Prep Dat	te:	Analyst: AT
Benzene		ND	0.4	mg/Kg		01/10/2002
Toluene		ND	0.5	mg/Kg		01/10/2002
Ethylbenzene		ND	0.5	mg/Kg		01/10/2002
Xylenes, Total		ND	0.5	mg/Kg		01/10/2002
TPH BY EPA 41 BatchID: R1513				Prep Dat	te: 01/10/2002	Analyst: Sub
Petroleum Hydro	ocarbons, TR	ND	10	mg/Kg		01/11/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

Page 6_0f 9_



Date: 14-Jan-02

CLIENT: Work Order: Project: Lab ID:	Rhino- El Paso 0201100 Goo-Yea Land Farm 0201100-06A			Client Sample ID: Location: Collection Date: Matrix:	Cell 5 - Wes Lea Co 01/04/2002 SOIL	t End
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8 BatchID: R15118				Prep Dat	e:	Analyst: AT
Benzene		ND	0.4	mg/Kg		01/10/2002
Toluene		ND	0.5	mg/Kg		01/10/2002
Ethylbenzene		ND	0.5	mg/Kg		01/10/2002
Xylenes, Total		ND	0.5	mg/Kg		01/10/2002
TPH BY EPA 41 BatchID: R15133				Prep Dat	e: 01/10/2002	Analyst: Sub
Petroleum Hydro		ND	10	mg/Kg		01/11/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

Page <u>7</u> Of <u>9</u>

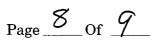


Date: 14-Jan-02

CLIENT: Work Order: Project: Lab ID:	Rhino- El Paso 0201100 Goo-Yea Land Farm 0201100-07A			Client Sample ID: Location: Collection Date: Matrix:	Cell 5 - East Lea Co 01/04/2002 SOIL	End
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8 BatchID: R15118				Prep Dat	e:	Analyst: AT
Benzene		ND	0.4	mg/Kg		01/10/2002
Toluene		ND	0.5	mg/Kg		01/10/2002
Ethylbenzene		ND	0.5	mg/Kg		01/10/2002
Xylenes, Total		ND	0.5	mg/Kg		01/10/2002
TPH BY EPA 41 BatchID: R15133				Prep Dat	e: 01/10/2002	Analyst: Sub
Petroleum Hydro	ocarbons, TR	ND	10	mg/Kg		01/11/2002

Qualifiers:

ND - Not Detected at the Reporting Limit



Date: 14-Jan-02

CLIENT:	Rhino- El Paso	OC SUMMARY REPORT
Work Order:	0201100	
Project:	Goo-Yea Land Farm	

BTEX by EPA 8021 - Solid

BatchID: R15118	Units: mg/Kg			A	nalysis Dat	e: 01/10/20	02
Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	100	92.1%	91.4%	70%	130%	0.8%	30
Toluene	100	93.3%	92.3%	70%	130%	1.1%	30
Ethylbenzene	100	94.6%	93.6%	70%	130%	1.1%	30
Xylenes, Total	300	95.7%	94.3%	70%	130%	1.4%	30

Page <u>9</u> Of <u>9</u>

JAN 11,2002 18:03 ERMI LABOR	ATORIES FROM S.	DOSTER TO VELI	DA EMBRY	PAGE 2 OF 11
Environ	e mental Laboratories			
Bethany Tec	ch Center + Suite 190			

Report of Sample Analysis (PO 0201100)

Anachem, Inc. 8 Prestige Circle, Suite 104	Page: Page 1 of 10 Project: TPH
Allen TX, 75002	Project #: [none]
ATTN: Velda Embrey	Print Date/Time: 01/11/02 1737

400 W. Bethany Rd. + Allen, Texas 75013

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample lescriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was eceived with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 lays from the above report date, unless you have requested otherwise.

Sample Identification

<u>_aboratory ID #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	Sampled Date/Time	Received Date/Time
201197-01	0201100-01A	Solid	01/04/02 0000	01/09/02 1515
201197-02	0201100-02A	Solid	01/04/02 0000	01/09/02 1515
201197-03	0201100-03A	Solid	01/04/02 0000	01/09/02 1515
201197-04	0201100-04A	Solid	01/04/02 0000	01/09/02 1515
201197-05	0201100-05A	Solid	01/04/02 0000	01/09/02 1515
201197-06	0201100-06A	Solid	01/04/02 0000	01/09/02 1515
201197-07	0201100-07A	Solid	01/04/02 0000	01/09/02 1515

Case Narrative

to sample times were provided by the customer.

hank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or oncerns regarding this report please contact our Customer Service Department at the phone number below.

espectfully submitted,

endall J. Birun

Cendall K. Brown resident

Sample Reporting Limit **Method Reporting Limit he results in the chain of custody document. This analytical report must be reproduced in its entirety.

.ocal: (972) 727-1123

Long Distance: (800) 228-ERMI

JAN 11,2002 18	:04 ERMI LABORATORIES	FROM S. DOSTER	TO VELDA EMBRY	PAGE 3 OF 11
	Environmenta Bethany Tech Center 400 W. Bethany Rd.	Suite 190		
	Report of	Sample Analysis (PC	D 0201100)	
Anachem, Ind 8 Prestige Ci Allen TX, 750 ATTN: Velda	rcle, Suite 104 002	Project: T	[none]	7
Laboratory ID #: 0201197-01 Sample Description 0201100-01A	Sample Type	<u>Matrix</u> Solid <u>Sample Date/Time</u> 01/04/02 0000	Sample Col	lected By
			Analy	sis

Analyte(s)	Result	*SRL	**MRL	Units	Method #	Analysis Date/Time	Analyst Flag
Conventional Che	mistry Parameters		• · · · · · · · · · · · · · · · · · · ·				
TRPH	ND	10	10	mg/kg	EPA 418.1	01/11/02 0915	RJS

Sample Reporting Limit ** Method Reporting Limit he results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

JAN 11,2002 18:	:04 ERMI LABORATO	ORIES	FROM S.	DOSTER	TO VELDA EME	BRY	PAGE 4 ()F 11
	Bethany Tech	Center • Suite vy Rd. • Allen,	e 190		•			
	Repo	ort of Samp	le Analys	is (PO	0201100)		
Anachem, Inc 8 Prestige Cir Allen TX, 750 ATTN: Velda	rcle, Suite 104 002		Page: Projec Projec Print	ct: TP	none]	/02 1737		
Laboratory ID #: 0201197-02 Sample Description 0201100-02A	<u>Sample Type</u>		<u>Matrix</u> Solid <u>Sample Date</u> 01/04/02 00		Sai	mple Collected	<u>d By</u>	
Analyte(s)	Result	*SRL	**MRL	Units	Method #	Analysis Date/Time	Analyst	Flag
Conventional Chemi	istry Parameters							
TRPH	ND	10	10	mg/kg	EPA 418.1	01/11/02 0915	5 RJS	

Sample Reporting Limit **Method Reporting Limit he results in the chain of custody document. This analytical report must be reproduced in its entirety.

Bethany Tech Center • Suite 190 400 W. Bethany Rd. • Allen, Texas 75013

Report of Sample Analysis (PO 0201100)

Anachem, Ind 8 Prestige Ci Allen TX, 750 ATTN: Velda	rcle, Suite 104 002		Page: Page 4 of 10 Project: TPH Project #: [none] Print Date/Time: 01/11/02 1737					
Laboratory ID #: 0201197-03 Sample Description 0201100-03A	Sample Type		<u>Matrix</u> Solid <u>Sample Da</u> 01/04/02 00		Sar	nple Collecte	d By	
Analyte(s)	Result	*SRL	**MRL	Units	Method #	Analysis Date/Time	Analyst	Flag
Conventional Chem	istry Parameters		-					
TRPH	ND	10	10	mg/kg	EPA 418.1	01/11/02 091	5 RJS	

Sample Reporting Limit **Method Reporting Limit he results in the chain of custody document. This analytical report must be reproduced in its entirety.

Long Distance: (800) 228-ERMI

JAN 11,2002 18:05 ERMI LABORATORIES	FROM S. DOSTER TO VELDA EMBRY	PAGE 6 OF 11
Environmental Lal Bethany Tech Center • Su		
400 W. Bethany Rd. + Aller		
• Anachem, Inc. 8 Prestige Circle, Suite 104	Page: Page 5 of 10 Project: TPH	
Allen TX, 75002 ATTN: Velda Embrey	Project #: [none] Print Date/Time: 01/11/02	2 1737
_aboratory ID #: Sample Type	Matrix Sample	e Collected By

Conventional Chemi							y maryst	
Analyte(s)	Result	l *SRL	**MRL	Units	Method #	Analysis Date/Time	Analyst	Flag
Sample Description 0201100-04A			Sample Date 01/04/02 000					
0201197-04			Solid					
Laboratory in #.	oumpic Type		Matrix		<u>Our</u>	npic concete		

10

mg/kg EPA 418.1 01/11/02 0915 RJS

TRPH

ND

10



Report of Sample Analysis (PO 0201100)

Anachem, Inc 8 Prestige Cir Allen TX, 750 ATTN: Velda	rcle, Suite 104 02	Project #: [none]						
Laboratory ID #: 0201197-05 Sample Description 0201100-05A	Sample Type		<u>Matrix</u> Solid <u>Sample Dat</u> 01/04/02 00		Sa	mple Collecte	d By	
Analyte(s)	Result	*SRL	**MRL	Units	Method #	Analysis Date/Time	Analyst	Flag
Conventional Chem	istry Parameters						<u> </u>	
TRPH	ND	10	10	mg/kg	EPA 418.1	01/11/02 091	5 RJS	

Sample Reporting Limit **Method Reporting Limit he results in the chain of custody document. This analytical report must be reproduced in its entirety.

JAN 11,2002 18	:07 ERMI LABOR	ATORIES	FROM S. D	OSTER	TO VELDA EMB	RY	PAGE 8 OI	5 11
	Bethany Teo	mental Lat h Center • Sul any Rd. • Allen	ite 190		•			
	Rep	ort of Sam	ple Analysis	s (PO	0201100)		
Anachem, Ind 8 Prestige Ci Allen TX, 750 ATTN: Velda	rcle, Suite 104 002		Page: Project Project Print D	: TP	none]	/02 1737		
Laboratory ID #: 0201197-06 Sample Description 0201100-06A	Sample Type	Imple Type Matrix Sample Collected By Solid Solid Sample Date/Time 01/04/02 0000						
Analyte(s)	Result	*SRL	**MRL	Units	Method #	Analysis Date/Time	Analyst	Flag
Conventional Chem	istry Parameter: ND	5 10	10	mg/kg	EPA 418.1	01/11/02 0915	RJS	
				`				



Environmental Laboratories Bethany Tech Center + Suite 190 400 W. Bethany Rd. * Allen, Texas 75013

Report of Sample Analysis (PO 0201100)

Anachem, In 8 Prestige Ci Allen TX, 750 ATTN: Velda	rcle, Suite 104)02	Project: TP Project #: [i	8 of 10 H none] ne: 01/11/02 1737
Laboratory ID #: 0201197-07 Sample Description	Sample Type	<u>Matrix</u> Solid Sample Date/Time	Sample Collected By

0201100-07A			01/04/02 00	00				
Analyte(s)	Result	*SRL	**MRL	Units	Method #	Analysis Date/Time	Analyst	Flag
Conventional Che	mistry Parameters		_					
TRPH	ND	10	10	mg/kg	EPA 418.1	01/11/02 0915	5 RJS	

Sample Reporting Limit **Method Reporting Limit he results in the chain of custody document. This analytical report must be reproduced in its entirety.

Long Distance: (800) 228-ERMI



Environmental Laboratories Bethany Tech Center + Suite 190 400 W. Bethany Rd. * Allen, Texas 75013

Report of Sample Analysis (PO 0201100)

Anachem, Inc. 8 Prestige Circle, Suite 104 Allen TX, 75002 ATTN: Velda Embrey

Page: Page 9 of 10 Project: TPH Project #: [none] Print Date/Time: 01/11/02 1737

Conventional Chemistry Parameters - Quality Control

	Result	*SRL	Units	Spike Level	Source Result	[%REC	%REC Limits	RPD	RPD Limit	Flag
Analvte(s)	Nesun	SKL	TUNIS	Lover	Result	1,01120				, i∞g
Batch 2A11008										
Blank (2A11008-BLK1) Prepared: 01/10/02 1300) Analyzed: 01/11	/02 0915								
TRPH	ND	10	mg/kg							
Laboratory Control Sar Prepared: 01/10/02 1300									444-54L	
TRPH	829	10	mg/kg	800		104	90-11	0		
Laboratory Control Sar Prepared: 01/10/02 1300			1)							
TRPH	815	10	mg/kg	800		102	90-11	0 2	20	
Matrix Spike (2A11008- Prepared: 01/10/02 1300		102 0015		S	ource: 0201	197.06				
	-						00.44	~		
TRPH	725	10	mg/kg	800	ND	91	90-11	0		
Matrix Spike Duplicate Prepared: 01/10/02 1300				Sc	ource: 0201	197-06				
TRPH	736	10	mg/kg	800	ND	92	90-11	0 2	20	

Sample Reporting Limit ** Method Reporting Limit he results in the chain of custody document. This analytical report must be reproduced in its entirety.

TO VELDA EMBRY



Environmental Laboratories Bethany Tech Center • Suite 190 400 W. Bethany Rd. • Allen, Texas 75013

Report of Sample Analysis (PO 0201100)

Anachem, Inc.Page:Page 10 of 108 Prestige Circle, Suite 104Project:TPHAllen TX, 75002Project #:[none]ATTN: Velda EmbreyPrint Date/Time:01/11/02 1737

Notes and Definitions

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

- NDAnalyte NOT DETECTED at or above the reporting limitdrySample results reported on a dry weight basis
- LCS/LCSD Laboratory Control Sample/Laboratory Control Sample Duplicate
- MS/MSD Matrix Spike/Matrix Spike Duplicate
- RPD Relative Percent Difference

Sample Reporting Limit **Method Reporting Limit he results in the chain of custody document. This analytical report must be reproduced in its entirety.

57 . 		ruicidase Olden oliain ol ousious						
	Anachem, Inc. 8 Pr	sstige Circle, Suite 10	4, Allen, TX 7500)2 Phone: 972-7	27-9003 Fax: 97	72-727-9686		
Report To: 29	DAD IETE BERACIZI, BINTO: (BUYEN) Rhind ENVICON ON WITCL	Bill To: (Buyer) 🖌	Hino E	INVICON	n wral		Analyteie	
Company: Ph	11	Purchase Order #:					cicyidi i	
Address: 200	IN.	Address: <i>P.O.</i>	BOX 57180	(80)				
City, State, Zip: ${\cal F}$	City, State, Zip: EL PASO, TX 79932	City, State, Zip: ALDU qUE rave nm 87187	pu guerai	e nm 8	7187	'i 1		
Phone: 9/5-8	Phone: 9/5-847-99/1 Fax:9/5-842-9933	Phone: 505 - 247 - 4646 Fax: 505-797-4874	14-4646	Fax: 505-79	7-4874	811		
Project Name: ACD-1100	m-ilea land farm		ð	Quote #:		5		
Project Location:		City, State:				f X		
Date Due: ASA	Ru					7J Z		
Lab#	 		Matrix	Date/Time	Sample Notes	T 7		
10-0410	1. COL 3- FANT EL	10/	5011	1807	2:59	XX		
- Cra-	Cell 2-			1	3:15	XX		
0 0 0	CP111-			(3:25	XX		
1	4 Cell 3 - 1.0055 Fr	d .			0; ID	ХХ		
5 2e	5. Poll 4 - Center		/		3:00	X. X		
ee 6	6. Cell 5 - (NUST	pus	/		2:45	XX		
e7 7	1. Cell 5- East	End'			3.30	XX		
	8.			-				
	6							
	10.							
Relinquished By	Date	Received By		Date	Time	In the event that Anachem determines that a	em determines that a) K
Winderf	Ordon 12-4 500	for to) en	19/02	4405,6	sample is hazardous; the client agrees to: Pay For Sample Disposal Accept Returned Sample	le client agrees to: posal	X
						Work Order #:	00/100	
~							シア・アン	

÷.

Ì

ç,

8 Prestige Circle, Suite 104 Allen, TX 75002-002-(800) 966-1186

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

. M.)-

, L

1 1 .

vtrije

÷

(972) 727-1123 TEL: Fax:

Subcontractor:

ERMI, Inc 400 W. Bethany Suite 190 Allen, TX 75002

Acct #:

09-Jan-02

				td-	Requested Tests
Sample ID	Matrix	Collection Date	Bottle Type	E418.1	
0201100-01A	Soil	01/04/2002	PROVED GLASS JA	1	
0201100-02A	Soil	01/04/2002	PROVED GLASS JA	1	
0201100-03A	Soil	01/04/2002	PROVED GLASS JA	-	
0201100-04A	Soil	01/04/2002	PROVED GLASS JA	•	
0201100-05A	Soil	01/04/2002	PROVED GLASS JA		
0201100-06A	Soil	01/04/2002	PROVED GLASS JA	1	
0201100-07A	Soil	01/04/2002	PROVED GLASS JA	1	

١

Comments:

PO#0201100 Please FAX results.

5 30 Date/Time Received by: 2/22 1515 Received by: Date/Time Relinquished by: Relinquished by: _

. 1.



P.O. Box 25547 • Albuquerque, New Mexico 87125 Phone (505) 247-4646 • Fax (505) 797-4874

September 27, 2001

Mr. Roger Anderson NM Energy, Mineral and Natural Resources Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505 Ph: (505) 476-3488 Fx: (505) 476-3462

Re: Goo-Yea Landfarm Facility: Quarterly Report – September 2001

Dear Mr. Anderson:

In accordance with the conditions of our permit, 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.

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 2. A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted November, 2001. Please call me if you have any questions or require additional information.

Sincerek Daniele Berardelli

Rhino Environmental Services, Inc. for Rhino Oilfield Disposal, Inc. 200 Sunset Dr., Ste. 200 El Paso, TX 79922 (915) 842-9911

Attachments



RECEIVED

OCT 1 7 2001 Environmental Bureau Oil Conservation Division

m



RHINO GOO-YEA FARM QUARTERLY REPORT September 2001

TABLE 1 - SOIL

Soil accepted from May 1, 2001 to August 31, 2001.

A total of 548 cubic yards (cy) of soil were received during this quarter. Exempt soils are separated from non-exempt soils by berms. 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	ТҮРЕ
08-22-01 to 08-28-01	548 cy	EOTT Sec. 35, T14S, R37E Lea County, NM	Exempt



TABLE NO. 1 - Analytical Results

Quarterly Native Soil Sampling:

Т

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. П F

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Tota mg/kg			emistry mg/kg
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	Arsenic Barium Cadmium Chromium Lead Selenium Silver Calcium Magnesium Potassium Sodium	6.8 536 ND 0.37 ND ND 266000 3170 244 160	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 16 3.5 17 ND ND 154
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	Arsenic Barium Cadmium Chromium Lead Selenium Silver Calcium Magnesium Potassium Sodium	9.3 474 ND 1.3 ND ND 287000 3130 249 151	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 13 ND 16 ND ND 147
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Arsenic Barium Cadmium Chromium Lead Selenium Silver Calcium Magnesium Potassium Sodium	7.3 290 ND ND ND 205000 2320 166 115	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 15 3.7 17 ND ND 153
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	Arsenic Barium Cadmium Chromium Lead Selenium Silver Calcium Magnesium Potassium Sodium	10 553 ND ND ND 287000 3000 247 132	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 11 ND 14 ND ND 118

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.



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.



Cell 1	Cell 2	Cell 3	Cell 4	Cell 5
x	х	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

September 12, 2001

Daniele Berardelli Rhino- El Paso 200 Sunset Dr. Suite D El Paso, TX 79922 TEL: 915-842-9911 915-842-9933

Work Order: 0108444 Project: Goo-Yea Land Farm

Dear Client:

Anachem, Inc. received 4 samples on 08/31/2001 for the analyses presented in the following report.

The samples were analyzed for the following tests:

BTEX by EPA 8021 - Solid ICP (EPA 6010) Arsenic Barium Cadmium Chromium Lead Selenium Silver ICP Metals (EPA 6010) in Solids Calcium Magnesium Manganese Potassium Sodium Ion Chromatograph Solid (EPA 300.0) Mercury Prep - Solid Mercury/Hg by Cold Vapor (EPA 7471) Metals Prep - Aqueous

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.

010 To 0108444-04A

Page __/_ Of __/_2_



September 12, 2001

Daniele Berardelli Rhino- El Paso **Work Order: 0108444**

Project: Goo-Yea Land Farm

Metals Prep - Solid 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.

010 To 0108444-04A

Page <u>2</u> Of <u>12</u>

Ê

.1

CLIENT:	Rhino- El Paso		Cli	ent Sample ID:	Cell 1	
Work Order:	0108444		Lo	cation:	Lea Co.	
Project:	Goo-Yea Land Farm		Co	llection Date:	8/30/01	
Lab ID:	0108444-01A		Ma	atrix:	SOIL	
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8	3021 - SOLID			Prep Dat	te:	Analyst: AT
BatchID: R13089	9					
Benzene		ND	0.4	mg/Kg		8/31/01
Toluene		ND	0.5	mg/Kg		8/31/01
Ethylbenzene		ND	0.5	mg/Kg		8/31/01
Xylenes, Total		ND	0.5	mg/Kg		8/31/01
	BY COLD VAPOR (EPA	7471)		Prep Dat	te:	Analyst: tp
BatchID: 13160						
Mercury		ND	0.02	mg/Kg		9/4/01
	OGRAPH SOLID (EPA 3	00.0)		Prep Dat	te:	Analyst: KAH
BatchID: R1311	1					
Bromide		ND	0.6	mg/Kg		9/4/01
Chloride		16	8	mg/Kg		9/4/01
Fluoride		3.5	3	mg/Kg		9/4/01
Nitrogen, Nitrate	e (As N)	17	1	mg/Kg		9/4/01
Nitrogen, Nitrite	(As N)	ND	0.3	mg/Kg		9/4/01
Phosphate		ND	0.8	mg/Kg		9/4/01
Sulfate		154	2	mg/Kg		9/4/01
ICP METALS (E	EPA 6010) IN SOLIDS			Prep Da	te:	Analyst: tp
BatchID: 13159						
Calcium		266000	0.25	mg/Kg		9/4/01
Magnesium		3170	0.25	mg/Kg		9/4/01
Potassium		244	0.5	mg/Kg		9/4/01
Sodium		160	0.5	mg/Kg		9/4/01
MERCURY PRE	EP - SOLID			Prep Da	te:	Analyst: MB
BatchID: R1311	0					
Digestion Charg	je	ND	0			9/4/01
METALS PREP	- SOLID			Prep Da	te:	Analyst: MB
BatchID: R1309	17			•		•
Digestion Charg	je	ND	0			8/31/01
ICP (EPA 6010))			Prep Da	te:	Analyst: tp
BatchID: 13154				-		-
Arsenic		6.8	2	mg/Kg		9/4/01
Barium		536	0.25	mg/Kg		9/4/01
Cadmium		ND	0.15	mg/Kg		9/4/01
Chromium		0.37	0.15	mg/Kg		9/4/01
Lead		ND	1	mg/Kg		9/4/01
Selenium		ND	15	mg/Kg		9/4/01
Silver		ND	0.3	mg/Kg		9/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page <u>3</u> Of <u>12</u>

Date: 12-Sep-01

CLIENT:	Rhino- El Paso		(Client Sample ID:	Cell 1	
Work Order:	0108444]	Location:	Lea Co.	
Project:	Goo-Yea Land Farm		(Collection Date:	8/30/01	
Lab ID:	0108444-01A		1	Matrix:	SOIL	
Analyses		Result	Limit	Units		Date Analyzed
TPH BY EPA 41	8.1 - SOLID			Prep Dat	e: 9/12/01	Analyst: Sub
BatchID: R1326	8					
Petroleum Hydro	ocarbons, TR	ND	10	mg/Kg		9/12/01

Qualifiers:

1 1 ND - Not Detected at the Reporting Limit

Page _____ Of _____

Anachem, In	IC.
-------------	-----

41

5

CLIENT:	Rhino- El Paso		С	lient Sample ID:	Cell 2	
Work Order:	0108444		\mathbf{L}	ocation:	Lea Co.	
Project:	Goo-Yea Land Farm		С	ollection Date:	8/30/01	
Lab ID:	0108444-02A			Matrix:		
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8	021 - SOLID			Prep Dat	e:	Analyst: AT
BatchID: R13089)					
Benzene		ND	0.4	mg/Kg		8/31/01
Toluene		ND	0.5	mg/Kg		8/31/01
Ethylbenzene		ND	0.5	mg/Kg		8/31/01
Xylenes, Total		ND	0.5	mg/Kg		8/31/01
	BY COLD VAPOR (EPA	7471)		Prep Dat	e:	Analyst: tp
BatchID: 13160						
Mercury		ND	0.02	mg/Kg		9/4/01
	OGRAPH SOLID (EPA 3	00.0)		Prep Dat	e:	Analyst: KAH
BatchID: R1311	1					-···-·
Bromide		ND	0.6	mg/Kg		9/4/01
Chloride		13	8	mg/Kg		9/4/01
Fluoride	(A - N)	ND	3	mg/Kg		9/4/01
Nitrogen, Nitrate	• •	16	1	mg/Kg		9/4/01
Nitrogen, Nitrite	(As N)	ND	0.3	mg/Kg		9/4/01
Phosphate		ND	0.8	mg/Kg		9/4/01
Sulfate		147	2	mg/Kg		9/4/01
	PA 6010) IN SOLIDS			Prep Dat	e:	Analyst: tp
BatchID: 13159		287000	0.05			0/4/04
Calcium			0.25	mg/Kg		9/4/01
Magnesium		3130	0.25	mg/Kg		9/4/01
Potassium		249	0.5	mg/Kg		9/4/01
Sodium		151	0.5	mg/Kg		9/4/01
MERCURY PRE				Prep Dat	e:	Analyst: MB
BatchID: R13110		ND	0			9/4/01
Digestion Charge			U	 Dran D-4		
METALS PREP				Prep Dat	е.	Analyst: MB
BatchID: R1309 Digestion Charg		ND	0			8/31/01
ICP (EPA 6010)		טא	U	Prep Dat	0.	Analyst: tp
BatchID: 13154				Fiep Da	φ.	Analyst: 4
Arsenic		9.3	2	mg/Kg		9/4/01
Barium		9.3 474	0.25	mg/Kg		9/4/01
Cadmium		ND	0.25	mg/Kg		9/4/01
Chromium		1.3	0.15	mg/Kg		9/4/01
Lead		ND	0.15	mg/Kg		9/4/01
Selenium		ND	15	mg/Kg		9/4/01
Silver		ND	0.3	mg/Kg		9/4/01

Qualifiers:

i

ND - Not Detected at the Reporting Limit

CLIENT: Rhino- El Paso				Client Sample ID:	Cell 2	`	
Work Order:	0108444			Lea Co.			
Project:	Goo-Yea Land Farm			8/30/01			
Lab ID: 0108444-02A				Matrix:	SOIL		
Analyses		Result	Limit	Units		Date Analyzed	
TPH BY EPA 418.1 - SOLID			<u></u>	Prep Dat	e: 9/12/01	Analyst: Sub	
BatchID: R13268							
Petroleum Hydrocarbons, TR		ND	10	ma/Ka		9/12/01	

Qualifiers:

ND - Not Detected at the Reporting Limit

Page 6 Of 12

٠

i

CLIENT:	Rhino- El Paso		Cl	ient Sample ID:	Cell 3	
Work Order:	0108444		Lo	cation:	Lea Co.	
Project:	Goo-Yea Land Farm		Co	llection Date:	8/30/01	
Lab ID:	0108444-03A		Matrix:		SOIL	
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8	3021 - SOLID			Prep Dat	te:	Analyst: AT
BatchID: R13089	9					
Benzene		ND	0.4	mg/Kg		8/31/01
Toluene		ND	0.5	mg/Kg		8/31/01
Ethylbenzene		ND	0.5	mg/Kg		8/31/01
Xylenes, Total		ND	0.5	mg/Kg		8/31/01
	BY COLD VAPOR (EPA	7471)		Prep Dat	te:	Analyst: tp
BatchID: 13160 Mercury		ND	0.02	mg/Kg		9/4/01
•	OGRAPH SOLID (EPA 3		0.02	Prep Dat	•	Analyst: KAH
BatchID: R1311		00.07		Fieh Dai		Analysi. In
Bromide	•	ND	0.6	mg/Kg		9/4/01
Chloride		15	8	mg/Kg		9/4/01
Fluoride		3.7	3	mg/Kg		9/4/01
Nitrogen, Nitrate	(As N)	17	1	mg/Kg		9/4/01
Nitrogen, Nitrite		ND	0.3	mg/Kg		9/4/01
Phosphate		ND	0.8	mg/Kg		9/4/01
Sulfate		153	2	mg/Kg		9/4/01
	EPA 6010) IN SOLIDS		_	Prep Dat	te:	Analyst: tp
BatchID: 13159						,
Calcium		205000	0.25	mg/Kg		9/4/01
Magnesium		2320	0.25	mg/Kg		9/4/01
Potassium		166	0.5	mg/Kg		9/4/01
Sodium		115	0.5	mg/Kg		9/4/01
MERCURY PRE	EP - SOLID			Prep Dat	te:	Analyst: MB
BatchID: R1311	0					-
Digestion Charg	je	ND	0			9/4/01
METALS PREP	- SOLID			Prep Da	te:	Analyst: MB
BatchID: R1309	17					-
Digestion Charg		ND	0			8/31/01
ICP (EPA 6010))			Prep Da	te:	Analyst: tp
BatchID: 13154						
Arsenic		7.3	2	mg/Kg		9/4/01
Barium		290	0.25	mg/Kg		9/4/01
Cadmium		ND	0.15	mg/Kg		9/4/01
Chromium		ND	0.15	mg/Kg		9/4/01
Lead		ND	1	mg/Kg		9/4/01
Selenium		ND	15	mg/Kg		9/4/01
Silver		ND	0.3	mg/Kg		9/4/01

Qualifiers:

T

ND - Not Detected at the Reporting Limit

•

Date: 12-Sep-01

CLIENT: Rhino- El Paso				Client Sample ID:	Cell 3		
Work Order:	0108444	Location: Lo		Lea Co.			
Project: Goo-Yea Land Farm		Collection Date:			8/30/01		
Lab ID: 0108444-03A				Matrix:	SOIL		
Analyses		Result	Limit	Units	· ··· · ····	Date Analyzed	
TPH BY EPA 418.1 - SOLID				Prep Da	te: 9/12/01	Analyst: Sut	
BatchID: R13268 Petroleum Hydrocarbons, TR		ND	10	mg/Kg		9/12/01	

Qualifiers:

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

Page _ 8_ Of _/2

.

Date: 12-Sep-01

CLIENT:	Rhino- El Paso			ient Sample ID: Cell	
Work Order:	0108444			cation: Lea	
Project:	Goo-Yea Land Farm		Co	ollection Date: 8/30	/01
Lab ID:	0108444-04A		Μ	atrix: SOI	L
Analyses		Result	Limit	Units	Date Analyzed
BTEX BY EPA 8	021 - SOLID			Prep Date:	Analyst: AT
BatchID: R13089)				
Benzene		ND	0.4	mg/Kg	8/31/01
Toluene		ND	0.5	mg/Kg	8/31/01
Ethylbenzene		ND	0.5	mg/Kg	8/31/01
Xylenes, Total		ND	0.5	mg/Kg	8/31/01
MERCURY/HG I BatchID: 13160	BY COLD VAPOR (EPA	7471)		Prep Date:	Analyst: tp
Mercury		ND	0.02	mg/Kg	9/4/01
ION CHROMAT	OGRAPH SOLID (EPA 3	00.0)		Prep Date:	Analyst: KAH
BatchID: R1311	1				
Bromide		ND	0.6	mg/Kg	9/4/01
Chloride		11	8	mg/Kg	9/4/01
Fluoride		ND	3	mg/Kg	9/4/01
Nitrogen, Nitrate	(As N)	14	1	mg/Kg	9/4/01
Nitrogen, Nitrite	(As N)	ND	0.3	mg/Kg	9/4/01
Phosphate		ND	0.8	mg/Kg	9/4/01
Sulfate		118	2	mg/Kg	9/4/01
ICP METALS (E BatchID: 13159	PA 6010) IN SOLIDS			Prep Date:	Analyst: tp
Calcium		287000	0.25	mg/Kg	9/4/01
Manganese		3000	0.25	mg/Kg	9/4/01
Potassium		247	0.5	mg/Kg	9/4/01
Sodium		132	0.5	mg/Kg	9/4/01
MERCURY PRE	P - SOLID			Prep Date:	Analyst: MB
BatchID: R1311	0				
Digestion Charg	e	ND	0		9/4/01
METALS PREP	- SOLID			Prep Date:	Analyst: MB
BatchID: R1309	7				
Digestion Charg	e	ND	0		8/31/01
METALS PREP	- AQUEOUS			Prep Date:	Analyst: MB
BatchID: R1311	0				
Digestion Charg	e	ND	0		9/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page ______ Of _____

CLIENT:Rhino- El PasoWork Order:0108444				Client Sample ID:	Cell 4	
		Location: L			Lea Co.	
Project:	Goo-Yea Land Farm			Collection Date:	8/30/01	
Lab ID:	: 0108444-04A Matrix:		SOIL			
Analyses		Result	Limit	Units		Date Analyzed
ICP (EPA 6010)				Prep Da	te:	Analyst: tp
BatchID: 13154						
Arsenic		10	2	mg/Kg		9/4/01
Barium		553	0.25	mg/Kg		9/4/01
Cadmium		ND	0.15	mg/Kg		9/4/01
Chromium		ND	0.15	mg/Kg		9/4/01
Lead		ND	1	mg/Kg		9/4/01
Selenium		ND	15	mg/Kg		9/4/01
Silver		ND	0.3	mg/Kg		9/4/01
TPH BY EPA 41 BatchID: R13268				Prep Da	te: 9/12/01	Analyst: Sub
Petroleum Hydro		ND	10	mg/Kg		9/12/01

Qualifiers:

ND - Not Detected at the Reporting Limit

Page _____ Of _____

Date: 12-Sep-01

CLIENT: Work Order: Project:	Rhino- El Paso 0108444 Goo-Yea Land Fa	arm				QC SU	MMAR	AY REPOR
ICP (EPA 6010)								
BatchID: 13154	Units:	mg/Kg			А	nalysis Date	: 09/04/200)1
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Arsenic		2	86.0%	85.6%	75%	125%	0.5%	15
Barium		2	102.7%	101.6%	75%	125%	1.1%	15
Cadmium		2	82.4%	84.0%	75%	125%	1.9%	15
Chromium		2	79.7%	80.0%	75%	125%	0.4%	15
Lead		2	87.9%	86.9%	75%	125%	1.2%	15
Selenium		2	82.4%	81.9%	75%	125%	0.5%	15
Silver		2	94.7%	95.9%	75%	125%	1.3%	15
ICP Metals (EPA	6010) in Solids							
BatchID: 13159	Units:	mg/Kg			A	nalysis Date	: 09/04/200	01
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Calcium		2	109.7%	96.0%	75%	125%	13.3%	15
Magnesium		2	98.6%	93.1%	75%	125%	5.8%	15
Potassium		20	74.2%	78.9%	75%	125%	6.2%	15
Sodium		2	96.0%	93.4%	75%	125%	2.8%	15
Mercury/Hg by Co	old Vapor (EPA 7471))						
BatchID: 13160	Units:	mg/Kg			A	analysis Date	. 09/04/200	01
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Mercury		5	95.9%	97.7%	75%	125%	1.9%	15

* Selenium detection limit reflects adverse plasma effects due to elevated calcium concentration.

Page _//_ Of _/2__

<u>.</u>

Work Order:

.

Date: 12-Sep-01

CLIENT: Rhino- El Paso

QC SUMMARY REPORT

Project: Goo-Yea Land Farm

0108444

BTEX by EPA 8021 - Solid

BatchID: R13089	Units: mg/Kg			4	Analysis Dat	te: 08/31/20	01
Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	100	91.9%	93.8%	70%	130%	2.0%	30
Toluene	100	95.2%	97.2%	70%	130%	2.1%	30
Ethylbenzene	100	96.3%	98.0%	70%	130%	1.7%	30
Xylenes, Total	300	96.7%	97.7%	70%	130%	1.0%	30
Ion Obversete sweeth Call							

Ion Chromatograph Solid (EPA 300.0)

BatchID: R13111	Units: mg/Kg		Analysis Date: 09/04/2001						
Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit		
Bromide	1	101.0%	103.0%	80%	120%	2.0%	15		
Chloride	5	93.6%	98.8%	80%	120%	5.4%	15		
Fluoride	2	97.5%	99.5%	80%	120%	2.0%	15		
Nitrogen, Nitrate (As N)	2	89.5%	91.0%	80%	120%	1.7%	15		
Nitrogen, Nitrite (As N)	1	98.0%	102.0%	80%	120%	4.0%	15		
Phosphate	1	108.0%	106.0%	80%	120%	1.9%	15		
Sulfate	5	95.2%	96.4%	80%	120%	1.3%	15		

Page <u>/2</u> Of <u>/2</u>

ς.

_					-			
SEP 12,2001 16:26 B	SRMI LABORATORIES		FROM	SHERRI HUG	HES TO VEL	DA EMBRY	Pi	AGE 4 OF 6
	Environmen Bethany Tech Cer 400 W. Bethany R	nter + S d. • All	Suite 19(en, Texa) is 75013 12, 2001			·	
REPORT OF:	Soil A	nalysis						
REPORT TO:		elda En						
		em, Inc stige Cir	cle, #10)4				
		Texas						
SAMPLE ID:	See B	elow						
SAMPLE DATE:		t 30, 20						
SAMPLE RECEIVED: TIME RECEIVED:	Septe 3:00P	mber 1(0, 2001					
SAMPLE COLLECTED								
SAMPLE NUMBER:	See B	elow						
RESULTS:								
Sample	Sample				Total P	etroleum l	-	ons
Number	ID					(mg/k	g)	<u></u>
194962	0108444-01					BD		
194963 194964	0108444-02/ 0108444-03/					BD BD		
194965	0108444-04					BD		
Detection Limit						1()	
		Quality	/ Contro	l Informati	on			
- .		EPA		Standard	Spike	Date of	Time of	
<u>Parameter</u>		<u>Method</u>	<u>C.V.%</u>	<u>Deviation</u>	Recovery%	<u>Analyses</u>	<u>Analyses</u>	<u>Analyst</u>
TPH Extraction		3550				09/12/01	7:15AM	R. Shah

TPH

*

...

BDL= Below Detection Limit.

Respectfully submitted,

Genball K. Birun

09/12/01

Kendall K. Brown President

93

Prepared By Sherri Hughes Initial Review By Shelly Connelly Final Review By Dr. Phil Clancy 0.0 ± 0.000

418.1

11:30AM R. Shah



P.O. Box 25547 • Albuquerque, New Mexico 87125 Phone (505) 247-4646 • Fax (505) 797-4874

April 4, 2001

Ms. Martyne J. Kieling NM Energy, Mineral and Natural Resources Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505 Ph: (505) 476-3488 Fx: (505) 476-3462

Re: Goo-Yea Landfarm Facility: Quarterly Report – February 2001

Dear Ms. Kieling:

Rhino would like to apologize for the tardiness of this report. The 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.

APR

1 200

SERVATION ON

Table 1 lists all soils accepted into the facility for this quarter. 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 2. A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted May, 2001. Please call me if you have any questions or require additional information.

Sincerely

Daniele Berardelli Rhino Environmental Services, Inc.

Attachments



RHINO OCD FARM QUARTERLY REPORT April 2001

TABLE 1 - SOIL AND WATER LOG

Soil accepted from November 30, 2000 to February 28, 2001.

A total of 1,728 cubic yards (cy) of soil were received during this quarter. Exempt soils are separated from non-exempt soils by berms. 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
02-21-01 to 02-27-01	728 cy 1,000 cy	EOTT Energy Pipeline Southeast Corner of Section 2 Township 14S, Range 37E	Non-Exempt	Cell 3 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. 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.

Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	рН
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.



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

X denotes sample collection location

Not to Scale



RHINO ENVIRONMENTAL SERVICES, INC.

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

March 07, 2001

Daniele Berardelli Rhino- El Paso 200 Sunset Dr. Suite D El Paso, TX 79922 TEL: 915-842-9911 915-842-9933

Work Order: 0102486 Project: Goo-Yea Land Farm

Dear Client:

Anachem, Inc. received 4 samples on 02/28/2001 for the analyses presented in the following report.

The samples were analyzed for the following tests:

BTEX by EPA 8021 - Solid 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.

010 To 0102486-04A

Page _____ Of _____

Toluene

Date: 07-Mar-01

3/1/2001

BatchID: R9924 Benzene		ND	0.4	mg/Kg		3/1/2001
BTEX BY EPA 8	8021 - SOLID			Prep Da	te:	Analyst: HH
Analyses		Result	Limit	Units		Date Analyzed
Lab ID:	0102486-01A			Matrix:	SOIL	
Project:	Goo-Yea Land Farm			Collection Date:	2/27/2001	
Work Order:	0102486			Location:	Lea Co., NM	1
CLIENT:	Rhino- El Paso			Client Sample ID:	Cell #1	

0.5

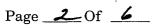
mg/Kg

Ethylbenzene ND 0.5 3/1/2001 mg/Kg mg/Kg Xylenes, Totai ND 0.5 3/1/2001 TPH BY EPA 418.1 - SOLID Prep Date: 3/1/2001 Analyst: AT BatchID: R9923 ND 3/1/2001 Petroleum Hydrocarbons, TR 10 mg/Kg

ND

Qualifiers:

ND - Not Detected at the Reporting Limit



Date: 07-Mar-01

CLIENT: Work Order: Project: Lab ID:	Rhino- El Paso 0102486 Goo-Yea Land Farm 0102486-02A			Client Sample ID: Location: Collection Date: Matrix:	Cell #2 Lea Co., NN 2/27/2001 SOIL	Л
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8 BatchID: R9924	021 - SOLID			Prep Dat	e:	Analyst: HH
Benzene		ND	0.4	mg/Kg		3/1/2001
Toluene		ND	0.5	mg/Kg		3/1/2001
Ethylbenzene		ND	0.5	mg/Kg		3/1/2001
Xylenes, Total		ND	0.5	mg/Kg		3/1/2001
TPH BY EPA 41 BatchID: R9923	8.1 - SOLID			Prep Dat	e: 3/1/2001	Analyst: AT
Petroleum Hydro	ocarbons, TR	ND	10	mg/Kg		3/1/2001

Qualifiers:

ND - Not Detected at the Reporting Limit

Page <u>3</u> Of <u>6</u>

Benzene Toluene

Ethylbenzene

Xylenes, Total

BatchID: R9923

TPH BY EPA 418.1 - SOLID

Petroleum Hydrocarbons, TR

Date: 07-Mar-01

3/1/2001

3/1/2001

3/1/2001

3/1/2001 Analyst: AT

3/1/2001

BTEX BY EPA 8 BatchID: R9924				Prep Dat	e:	Analyst: HH
Analyses		Result	Limit	Units		Date Analyzed
Lab ID:	0102486-03A		·····	Matrix:	SOIL	·
Project:	Goo-Yea Land Farm			Collection Date:	2/27/2001	
Work Order:	0102486			Location:	Lea Co., NM	
CLIENT:	Rhino- El Paso			Client Sample ID:	Cell #3	

0.4

0.5

0.5

0.5

10

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Prep Date: 3/1/2001

ND

ND

ND

ND

ND

Qualif	iers:
--------	-------

ND - Not Detected at the Reporting Limit

Page ______ Of _____

G,

Date: 07-Mar-01

CLIENT:	Rhino- El Paso		C	Client Sample ID:	Cell #4	
Work Order:	0102486		I	Location:	Lea Co., NM	1
Project:	Goo-Yea Land Farm		0	Collection Date:	2/27/2001	
Lab ID:	0102486-04A		Ň	Matrix:	SOIL	
Analyses		Result	Limit	Units		Date Analyzed
				Prep Dat	0.	Analyst: HH
BTEX BY EPA 8				Fiep Dat	с.	Analyst.
BatchID: R9924		ND	• <i>t</i>	•	с.	
		ND	0.4	mg/Kg	с.	3/1/2001
BatchID: R9924		ND ND	0.4 0.5	•	.	
BatchID: R9924 Benzene				mg/Kg	5.	3/1/2001
BatchID: R9924 Benzene Toluene		ND	0.5	mg/Kg mg/Kg	5.	3/1/2001 3/1/2001
BatchID: R9924 Benzene Toluene Ethylbenzene	18.1 - SOLID	ND ND	0.5 0.5	mg/Kg mg/Kg mg/Kg mg/Kg	e: 3/1/2001	3/1/2001 3/1/2001 3/1/2001

Qualifiers:

ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page <u>5</u> Of <u>6</u>

Date: 07-Mar-01

Work Order: 01	nino- El Paso 102486 00-Yea Land F	arm				QC ST	JMMAF	RY REPORT
TPH by EPA 418.1 - Sc	olid				<u></u>	· · · · · · · · · · · · · · · · · · ·	······································	
BatchID: R9923	Units:	mg/Kg			٨	nalysis Dat	e: 3/1/2001	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Petroleum Hydrocarbor	ns, TR	43.2	75.0%	74.1%	60%	140%	1.2%	30
BTEX by EPA 8021 - S	iolid							
BatchID: R9924	Units:	mg/Kg			A	nalysis Dat	e: 3/1/2001	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Benzene		100	88.1%	85.4%	70%	130%	3.1%	30
Toluene		100	94.2%	90.2%	70%	130%	4.3%	30
Ethylbenzene		100	94.5%	91.3%	70%	130%	3.4%	30
Xylenes, Total		300	96.7%	94.3%	70%	130%	2.4%	30

Page 6_ Of 6_

Page0f E079_77_0484	Fax: 912-121-9000	Analysis			20		× 7	31	M B	XX	X X	XX								In the event that Anachem determines that a	sample is hazardous, the client agrees to: Pay For Sample Disposal	Accept Returned Sample			Submission # O/O2.496	
	Aliacifetii, IIIC. 8 Prestige Circle, Suite 104, Allen, 1X / 5002 Phone: 9/2-/2/-9003	Report To: DAN 212 B2DR & CLi BIII To: (Buyer) Rhivo	Company: ZN NO Sur, Sand, Inchase Order #:	Address: 200 SUNSET TRIVE, SUR D Address: DO BOX SP 180	 Phone: 96-821-2033 Fax: 915-842-9933 Phone: 505-247-4646 Fax: 505-797-9894	Project Name: 600 - XEA KAND PARA		Date Due: ASAP Rush: 0% 25% 50% 100% Sampled By: A-LLS- 14505	ent Sample ID	1 10-38	2 5 C 5 LL # 2	3. CELL #3	4	5.	6.	7.	8	6	, 10. <i>j</i>	Relinquis beg By Date Time Received By Date Time Sample Receipt Notes	Miller & Rand 1700 nee Bourne 7286,0915 Temperature 50		COC Seals Intact	Method of Shipment Prad S		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.

L

Ø



P.O. Box 25547 • Albuquerque, New Mexico 87125 Phone (505) 247-4646 • Fax (505) 797-4874

May 29, 2001

Ms. Martyne J. Kieling NM Energy, Mineral and Natural Resources Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505 Ph: (505) 476-3488 Fx: (505) 476-3462

Re: Goo-Yea Landfarm Facility: Quarterly Report –May 2001

Dear Ms. Kieling:

In accordance with the conditions of our permit, 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.

4 2001

JUN

No soil was accepted into the facility for this quarter. 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 2. A copy of the analytical report is submitted as Appendix A.

Rhino's next quarterly report will be submitted August, 2001. Please call me if you have any questions or require additional information.

Sincerek Daniele Berardelli

Rhino Environmental Services, Inc. for Rhino Oilfield Disposal, Inc. 200 Sunset Dr., Ste. 200 El Paso, TX 79922 (915) 842-9911

Attachments



Ţ

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. 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	рН
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.

••

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

May 15, 2001

Daniele Berardelli Rhino- El Paso 200 Sunset Dr. Suite D El Paso, TX 79922 TEL: 915-842-9911 915-842-9933

Work Order: 0105132 Project: Goo-Yea Land Farm

Dear Client:

Anachem, Inc. received 4 samples on 05/09/2001 for the analyses presented in the following report.

The samples were analyzed for the following tests:

BTEX by EPA 8021 - Solid 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.

010 To 0105132-04A

Page ____ Of ____

Visit us on the internet at http://www.anachem.com

Date: 15-May-01

		Result	Limit	Units	Date Analyzed
Lab ID:	0105132-01A	<u> </u>	1	Matrix:	SOIL
Project:	Goo-Yea Land Farm			Collection Date:	5/8/2001
Work Order:	0105132		I	Location:	Lea Co, NM
CLIENT:	Rhino- El Paso		(Client Sample ID:	Cell #1

BTEX BY EPA 8021 - SOLID			Prep Date:	Analyst: AT
BatchID: R11033			·	•
Benzene	ND	0.4	mg/Kg	5/9/2001
Toluene	ND	0.5	mg/Kg	5/9/2001
Ethylbenzene	ND	0.5	mg/Kg	5/9/2001
Xylenes, Total	ND	0.5	mg/Kg	5/9/2001
TPH BY EPA 418.1 - SOLID			Prep Date: 5/10/2001	Analyst: AT
BatchID: R11086				
Petroleum Hydrocarbons, TR	ND	10	mg/Kg	5/10/2001

Qualifiers:

ND - Not Detected at the Reporting Limit

Page _____ Of _____

Date: 15-May-01

CLIENT:	Rhino- El Paso		Client Sample ID	: Cell #2
Work Order:	0105132		Location:	Lea Co, NM
Project:	Goo-Yea Land Farm		Collection Date:	5/8/2001
Lab ID:	0105132-02A		Matrix:	SOIL
Analyses	· · · · · · · · · · · · · · · · · · ·	Result	Limit Units	Date Analyzed

Analyses	Kesun	Linne	Omis	Date Analyzeu
BTEX BY EPA 8021 - SOLID			Prep Date:	Analyst: AT
BatchID: R11033				
Benzene	ND	0.4	mg/Kg	5/9/2001
Toluene	ND	0.5	mg/Kg	5/9/2001
Ethylbenzene	ND	0.5	mg/Kg	5/9/2001
Xylenes, Total	ND	0.5	mg/Kg	5/9/2001
TPH BY EPA 418.1 - SOLID			Prep Date: 5/10/2001	Analyst: AT
BatchID: R11086				-
Petroleum Hydrocarbons, TR	ND	10	mg/Kg	5/10/2001

Qualifiers:

ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page <u>3</u> Of <u>6</u>



Date: 15-May-01

CLIENT: Work Order: Project: Lab ID:	Rhino- El Paso 0105132 Goo-Yea Land Farm 0105132-03A			Client Sample ID: Location: Collection Date: Matrix:	Cell #3 Lea Co, NM 5/8/2001 SOIL	[
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8 BatchID: R11033			-	Prep Dat	te:	Analyst: AT
Benzene		ND	0.4	mg/Kg		5/9/2001
Toluene		ND	0.5	mg/Kg		5/9/2001
Ethylbenzene		ND	0.5	mg/Kg		5/9/2001
Xylenes, Total		ND	0.5	mg/Kg		5/9/2001
TPH BY EPA 41 BatchID: R1108				Prep Dat	t e: 5/10/2001	Analyst: AT
Petroleum Hydro	ocarbons, TR	ND	10	mg/Kg		5/10/2001

Qualifiers:

ND - Not Detected at the Reporting Limit

Page _____ Of _____

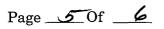


Date: 15-May-01

CLIENT: Work Order: Project: Lab ID:	Rhino- El Paso 0105132 Goo-Yea Land Farm 0105132-04A			Client Sample ID: Location: Collection Date: Matrix:	Cell #4 Lea Co, NM 5/8/2001 SOIL	ſ
Analyses		Result	Limit	Units		Date Analyzed
BTEX BY EPA 8 BatchID: R1103				Prep Dat	e:	Analyst: AT
Benzene		ND	0.4	mg/Kg		5/9/2001
Toluene		ND	0.5	mg/Kg		5/9/2001
Ethylbenzene		ND	0.5	mg/Kg		5/9/2001
Xylenes, Total		ND	0.5	mg/Kg		5/9/2001
TPH BY EPA 4 ⁻ BatchID: R1108				Prep Dat	t e: 5/10/2001	Analyst: AT
Petroleum Hvdr	ocarbons TB	ND	10	mg/Kg		5/10/2001

Qualifiers:

ND - Not Detected at the Reporting Limit



Date: 15-May-01

đ

QC SUMMARY REPORT

CLIENT: Rhino- El Paso

Work Order: 0105132

Project: Goo-Yea Land Farm

BTEX by EPA 8021 - Solid

BatchID: R11033	Units:	mg/Kg			Δ	nalysis Dat	e: 5/9/2001	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Benzene		100	97.0%	96.6%	70%	130%	0.4%	30
Toluene		100	97.0%	96.8%	70%	130%	0.2%	30
Ethylbenzene		100	97.6%	97.5%	70%	130%	0.1%	30
Xylenes, Total		300	98.0%	96.0%	70%	130%	2.1%	30
TPH by EPA 418.1 - Solid								
BatchID: R11086	Units:	mg/Kg			A	Analysis Dat	e: 5/10/2001	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Petroleum Hydrocarbons, TR		43.2	75.9%	74.5%	60%	140%	1.8%	30

Page 6_ 0f 6

Accepton Inc. 2010 Section March 2010 Section 2010 Sectio	Pageof
Report To: // M. : < / S / S & A & S & L(Bill To: (Buyer) R / NO	
	Analysis
Α	
2	0 /
Phone: 915-821-2033 Fax 95-842-9933 Phone: 247-4646 Fax: 297-4874	C 0/ 8/1
ono	8
Project Location: 1, 2, 4, CO City, State: 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	×:
	31.
Client Sample ID	Votes 7 3
132-31-56L # 1 Soic 5801 1300	O X X O
-02 - C + C + C	
3 C 5 r r B 2 3 7 3 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	0 X X
4	XXO
5.	
6.	
7.	
8.	
.6	
×10.	
Relinquished BV Date Time Received By Date Time	In the event that Anachem determines that a
NK 12 58/01 1700 Dechenner 59/01 09.	$\frac{20}{80}$ sample is hazardous; the client agrees to: Pay For Sample Disposal F_{0} f_{2}
	Accept Returned Sample
	Work Order #: 0/05/32
010 REV 1/00 Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.	

Ś



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.



Cell 1 X	<	Cell 2 X	Cell 3 X	Cell 4 X	Cell 5
		·			

X denotes sample collection location

Not to Scale



P.O. Box 25547 • Albuquerque, New Mexico 87125 Phone (505) 247-4646 • Fax (505) 797-4874 December 18, 2000

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

DEC 2 8 2000 ONSERVATION DIVE

Re: Goo-Yea Landfarm Facility: Quarterly Report - November 2000

Dear Ms. Kieling:

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 this quarter (August 1 - October 31, 2000), 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 February, 2001. Please call me if you have any questions or require additional information.

Sincerely Daniele Berardell

Rhino Environmental Services, Inc.

Attachments



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 analytical results are summarized in Table No. 1.

ī

Sample	BTEX	TPH	RCRA Total	Metals	General Ch	emistry	pH
ID .	mg/kg	mg/kg	mg/kg				
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 200 ND 5350 2.04 ND 68.7 18.9 ND ND 6.86	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 2.81 0.665 .114 ND ND 17.4	
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 223 ND 6050 2.6 ND 83.6 23.2 ND ND 9.38	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND .077 6.86 .777 .27 ND ND 22	
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 416 ND 2340 3.64 ND 115 31.8 ND ND 7.56	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND .115 10.1 .958 .134 ND ND 23.5	
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	< 10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 309 ND 1680 3.93 1.61 127 33.4 ND ND 8.62	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND .157 16.6 .907 .087 ND ND 27.3	

A copy of the analytical report is provided in Appendix A. The analytical results for all samples collected report levels to be below detection, thereby demonstrating no 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.



Cell 2	Cell 3	Cell 4	Cell 5
x	x	Х	

X denotes sample collection location

Not to Scale



APPENDIX A - ANALYTICAL RESULTS

ĩ

.

- ---

.

.

.



ANACHEM INC.

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

September 22, 2000

Daniele Berardelli Rhino Env. Services- Anthony P.O. Box 4232

Anthony, NM 88021 TEL: 505-882-0449 FAX: 505-882-0563

Work Order: 0009080 Project: Goo-Yea Landfarm

Dear Client:

Anachem, Inc. received 4 samples on 09/08/2000 for the analyses presented in the following report.

The samples were analyzed for the following tests:

BTEX by EPA 8021 - Solid ICP Metals (EPA 6010) Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium Ion Chromatograph Solid (EPA 300.0) Mercury Digestion (EPA 7470) Mercury/Hg by Cold Vapor (EPA 7470) Microwave Digestion (EPA 3051) Solid TPH by EPA 418.1 - Solid

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.

0009080-01A To 0009080-04A

Page __/_ Of _____



ANACHEM INC.

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

September 22, 2000

Daniele Berardelli Rhino Env. Services- Anthony Work Order: 0009080

Project: Goo-Yea Landfarm

Respectfully Submitted, Anachem, Inc.

S

C.E. Newton, Ph.D. Chemist

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.

0009080-01A To 0009080-04A

Page $\underline{2}$ Of $\underline{8}$

Anachem, Inc.				Da	ate: 22-Sep-00	
CLIENT:	Rhino Env. Services-	Anthony		Client Sample ID:	Cell 1	
Work Order:	0009080			Location:	Lea Co., NM	
Project:	Goo-Yea Landfarm		(Collection Date:	9/5/00	
Lab ID:	0009080-01A Result]	Matrix:	SOIL	
Analyses		Result	Limit	Units	D	ate Analyzed
BTEX BY EPA 8 BatchID: R7224	3021 - SOLID			Prep Dat	e:	Analyst: AT
Benzene		ND	0.4	mg/Kg		9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/Kg		9/8/00
Xylenes, Total		ND	0.5	mg/Kg		9/8/00
MERCURY/HG	BY COLD VAPOR (EPA	7470)		Prep Dat	e:	Analyst: BMC
BatchID: R7356 Mercury	3	ND	0.02	mg/Kg		9/12/00
			0.02			
BatchID: R7390	OGRAPH SOLID (EPA 3	00.0)		Prep Dat	e:	Analyst: SD
Bromide		ND	0.01	mg/Kg		9/20/00
Chloride		2.81	0.01	mg/Kg		9/20/00
Fluoride		0.665	0.01	mg/Kg		9/20/00
Nitrogen, Nitrate	e (As N)	0.114	0.015	mg/Kg		9/20/00
Nitrogen, Nitrite	(As N)	ND	0.01	mg/Kg		9/20/00
Phosphate		ND	0.01	mg/Kg		9/20/00
Sulfate		17.4	0.2	mg/Kg		9/20/00
ICP METALS (E BatchID: 1897	EPA 6010)			Prep Dat	e: 9/8/00 3:23:11	P Analyst: BMC
Arsenic		ND	1	mg/Kg		9/8/00
Barium		200	0.12	mg/Kg		9/8/00
Cadmium		ND	0.12	mg/Kg		9/8/00
Calcium	``	5350	1	mg/Kg		9/8/00
Chromium		2.04	0.12	mg/Kg		9/8/00
Lead		ND	1.5	mg/Kg		9/8/00
Magnesium		68.7	1	mg/Kg		9/8/00
Potassium		18.9	1	mg/Kg		9/8/00
Selenium		ND	2	mg/Kg		9/8/00
Silver		ND	1	mg/Kg		9/8/00
Sodium		6.86	1	mg/Kg		9/8/00
TPH BY EPA 4 ² BatchID: R7256				Prep Da	te: 9/12/00	Analyst: AT
Petroleum Hydr		ND	10	mg/Kg		9/12/00

Qualifiers:

ł

. .

ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page <u>3</u> Of <u>8</u>

Anachem, Inc.

CLIENT:	Rhino Env. Services-	Anthony	C	lient Sample ID:	Cell 2	
Work Order:	0009080		L	ocation:	Lea Co., NM	
Project:	Goo-Yea Landfarm		C	ollection Date:	9/5/00	
Lab ID:	0009080-02A		Ν	latrix:	SOIL	
Analyses		Result	Limit	Units	Dat	te Analyzed
BTEX BY EPA 8	3021 - SOLID			Prep Dat	e:	Analyst: AT
BatchID: R7224						
Benzene		ND	0.4	mg/Kg		9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/Kg		9/8/00
Xylenes, Total		ND	0.5	mg/Kg		9/8/00
MERCURY/HG I BatchID: R7356	BY COLD VAPOR (EPA	7470)		Prep Dat	e:	Analyst: BMC
Mercury		ND	0.02	mg/Kg		9/12/00
-	OGRAPH SOLID (EPA 3	00.0)		Prep Dat	e:	Analyst: SD
BatchID: R7390	•			-		•
Bromide		0.077	0.01	mg/Kg		9/20/00
Chloride		6.86	0.01	mg/Kg		9/20/00
Fluoride		0.777	0.01	mg/Kg		9/20/00
Nitrogen, Nitrate	e (As N)	0.27	0.015	mg/Kg		9/20/00
Nitrogen, Nitrite	(As N)	ND	0.01	mg/Kg		9/20/00
Phosphate		ND	0.01	mg/Kg		9/20/00
Sulfate		22	0.2	mg/Kg		9/20/00
ICP METALS (E	EPA 6010)			Prep Dat	te: 9/8/00 3:23:11 P	Analyst: BMC
BatchID: 1897						
Arsenic		ND	1	mg/Kg		9/8/00
Barium		223	0.12	mg/Kg		9/8/00
Cadmium		ND	0.12	mg/Kg		9/8/00
Calcium	``	6050	1	mg/Kg		9/8/00
Chromium		2.6	0.12	mg/Kg		9/8/00
Lead		ND	1.5	mg/Kg		9/8/00
Magnesium		83.6	1	mg/Kg		9/8/00
Potassium		23.2	1	mg/Kg		9/8/00
Selenium		ND	2	mg/Kg		9/8/00
Silver		ND	1	mg/Kg		9/8/00
Sodium		9.38	1	mg/Kg		9/8/00
TPH BY EPA 4	18.1 - SOLID			Prep Da	te: 9/12/00	Analyst: AT
BatchID: R7256	5					
Petroleum Hydr	rocarbons, TR	ND	10	mg/Kg		9/12/00

Qualifiers:

l

ND - Not Detected at the Reporting Limit

Page _____ Of _____

A	na	ıch	em,	Inc.

Į.

CLIENT:	Rhino Env. Services-	Anthony		Client Sample ID:		
Work Order:	0009080			Location:	Lea Co., NM	
Project:	Goo-Yea Landfarm			Collection Date:	9/5/00	
Lab ID:	0009080-03A			Matrix:	SOIL	
Analyses		Result	Limit	Units	Da	te Analyzed
BTEX BY EPA 8	021 - SOLID			Prep Dat	e:	Analyst: AT
BatchID: R7224						
Benzene		ND	0.4	mg/Kg		9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/Kg		9/8/00
Xylenes, Total		ND	0.5	mg/Kg		9/8/00
MERCURY/HG I BatchID: R7356	BY COLD VAPOR (EPA	7470)		Prep Dat	e:	Analyst: BMC
Mercury		ND	0.02	mg/Kg		9/12/00
	OGRAPH SOLID (EPA 3	00.0)		Prep Dat	e:	Analyst: SD
BatchID: R7390		0.115	0.01			0/00/00
Bromide		0.115	0.01	·mg/Kg		9/20/00
Chloride		10.1	0.01	mg/Kg		9/20/00
Fluoride		0.958	0.01	mg/Kg		9/20/00
Nitrogen, Nitrate		0.134	0.015	mg/Kg		9/20/00
Nitrogen, Nitrite	(AS N)	ND	0.01	mg/Kg		9/20/00
Phosphate		ND	0.01	mg/Kg		9/20/00
Sulfate		23.5	0.2	mg/Kg	0/0/00 0 00/11	9/20/00
ICP METALS (E	PA 6010)			Prep Dat	te: 9/8/00 3:23:11 F	Analyst: BMC
BatchID: 1897				mc/1/-		0/9/00
Arsenic Barium		ND 416	1 0.12	mg/Kg		9/8/00
Cadmium		416 ND	0.12	mg/Kg		9/8/00 9/8/00
Calcium		2340	0.12	mg/Kg		9/8/00 9/8/00
Chromium		2340 3.64	0.12	mg/Kg mg/Kg		9/8/00
Lead		3.04 ND	1.5	mg/Kg		9/8/00
Magnesium		115	1.5	mg/Kg		9/8/00
Potassium		31.8	1	mg/Kg		9/8/00
Selenium		ND	2	mg/Kg		9/8/00
Silver		ND		mg/Kg		9/8/00
Sodium		7.56	1	mg/Kg		9/8/00
TPH BY EPA 4	181-5010	7.00	1		te: 9/12/00	Analyst: AT
BatchID: R7256				riep Da		Analyst. A
Petroleum Hydr		ND	10	mg/Kg		9/12/00

Qualifiers:

ND - Not Detected at the Reporting Limit

Page <u>5</u> Of <u>8</u>

A	l-		T
An	асп	lem.	Inc.

Date: 22-Sep-00

CLIENT: Work Order:	Rhino Env. Services 0009080	Anthony		Client Sample ID: Aocation:	Cell 4 Lea Co., NM	
Project:	Goo-Yea Landfarm		C	Collection Date:	9/5/00	
Lab ID:	0009080-04A		Ν	latrix:	SOIL	
Analyses		Result	Limit	Units	Da	ite Analyzed
BTEX BY EPA 8	021 - SOLID			Prep Dat	e:	Analyst: AT
BatchID: R7224						
Benzene		ND	0.4	mg/Kg		9/8/00
Toluene	•	ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/Kg		9/8/00
Xylenes, Total		ND	0.5	mg/Kg		9/8/00
MERCURY/HG I BatchID: R7356	BY COLD VAPOR (EPA	7470)		Prep Dat	e:	Analyst: BMC
Mercury		ND	0.02	mg/Kg		9/12/00
	OGRAPH SOLID (EPA 3		0.02	Prep Dat	· • ·	Analyst: SD
BatchID: R7390	UGNAFN SULID (EFA 3	00.0)		Fiep Dat		Analyst: 50
Bromide		0.157	0.01	mg/Kg		9/20/00
Chloride		16.6	0.01	mg/Kg		9/20/00
Fluoride		0.907	0.01	mg/Kg		9/20/00
Nitrogen, Nitrate	(As N)	0.087	0.015	mg/Kg		9/20/00
Nitrogen, Nitrite		ND	0.01	mg/Kg		9/20/00
Phosphate		ND	0.01	mg/Kg		9/20/00
Sulfate		27.3	0.2	mg/Kg		9/20/00
ICP METALS (E	PA 6010)		0.2	• •	te: 9/8/00 3:23:11	
BatchID: 1897				1.00 000		Analysin
Arsenic		ND	1	mg/Kg		9/8/00
Barium		309	0.12	mg/Kg		9/8/00
Cadmium		ND	0.12	mg/Kg		9/8/00
Calcium	۱.	1680	1	mg/Kg		9/8/00
Chromium		3.93	0.12	mg/Kg		9/8/00
Lead		1.61	1.5	mg/Kg		9/8/00
Magnesium		127	1	mg/Kg		9/8/00
Potassium		33.4	1	mg/Kg		9/8/00
Selenium		ND	2	mg/Kg		9/8/00
Silver		ND	1	mg/Kg		9/8/00
Sodium		8.62	1	mg/Kg		9/8/00
TPH BY EPA 4	18.1 - SOLID			• •	te: 9/12/00	Analyst: AT
BatchID: R7256						· · · · · · · · · · · · · · · · · · ·
Petroleum Hydr		ND	10	mg/Kg		9/12/00

Qualifiers:

ND - Not Detected at the Reporting Limit

Page 6 Of 8

Anachem, Inc.

T

Date: 22-Sep-00

CLIENT:	Rhino Env. S	ervice	es- Anthony	y			QC SUI	MMAF	RY REPOR
Work Order:	0009080						_		
Project:	Goo-Yea Lar	ndfarn	n						
ICP Metals (EPA 60)10)								••••••••••••••••••••••••••••••••••••••
BatchID: 1897	Un	its: r	ng/Kg			А	nalysis Date:	9/8/00	
Analyte			SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Arsenic			200	100.8%	99.3%	75%	125%	1.7%	15
Barium			200	97.5%	86.0%	75%	125%	5.6%	15
Cadmium			200	92.6%	94.6%	75%	125%	2.1%	15
Chromium			200	87.9%	89.9%	75%	125%	2.2%	15
Lead			200	90.8%	91.3%	75%	125%	0.6%	15
Selenium			200	91.5%	93.5%	75%	125%	2.2%	15
Silver			200	101.0%	104.0%	75%	125%	3.0%	15
ICP Metals (EPA 6	010)								
BatchID: 1897	Un	its:	mg/Kg			А	nalysis Date:	9/8/00	
Analyte			SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Arsenic			200	92.5%	93.5%	75%	125%	1.1%	15
Barium 🦟			200	132.0%	161.0%	75%	125%	9.6%	15
Cadmium			200	90.6%	90.1%	75%	125%	0.6%	15
Chromium			200	88.0%	88.0%	75%	125%	0.0%	15
Lead			200	88.7%	88.7%	75%	125%	0.0%	15
Selenium			200	96.4%	98.9%	75%	125%	2.7%	15
Silver			200	96.9%	95.9%	75%	125%	1.0%	15
Mercury/Hg by Co	ld Vapor (EPA	7470)							
BatchID: R7356	Ur	nits:	mg/Kg			۵	alysis Date:	9/12/00	
Analyte			SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Mercury			0.5	85.0%	89.0%	75%	125%	4.6%	15
Mercury/Hg by Co	ld Vapor (EPA	7470)							
BatchID: R7356	Ur	nits:	mg/Kg			A	Analysis Date	9/12/00	
Analyte			SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Mercury			0.5	78.0%	88.6%	75%	125%	12.7%	15
Ion Chromatogra	oh Solid (EPA 3	00.0)							
BatchID: R7390	U	nits:	mg/Kg			ļ	Analysis Date	9/20/00	
Analyte			SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Bromide			0.5955	105.0%	105.1%	80%	120%	0.2%	15
Chloride			2.49	103.9%	103.5%	80%	120%	0.2%	15
Fluoride			1.82	107.1%	107.0%	80%	120%	0.2%	15
Nitrogen, Nitrate (A	s N)		8.759	101.3%	100.7%	80%	120%	0.6%	15
Nitrogen, Nitrite (A			0.1046	96.6%	91.8%	80%	120%	0.0%	15
Phosphate			13.44	103.1%	103.1%	80%	120%	0.1%	15
Sulfate			13.45	109.4%	109.6%	80%	120%	0.0%	15

* Spiked QC sample very high in barium. Barium check standards yield 104.2% and 106.7% recoveries.

Page _7_ Of _8___



Anachem, Inc.

Date: 22-Sep-00

CLIENT:	Rhino Env. Services- Anthony
Work Order:	0009080
Project:	Goo-Yea Landfarm

QC SUMMARY REPORT

BTEX by EPA 8021 - Solid

BatchID: R7224	Units: mg/Kg		Analysis Date: 9/8/00					
Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit	
Benzene	100	101.0%	104.0%	70%	130%	2.9%	30	
Toluene	100	103.0%	105.0%	70%	130%	1.9%	30	
Ethylbenzene	100	101.0%	104.0%	70%	130%	2.9%	30	
Xylenes, Total	300	101.0%	103.7%	70%	130%	2.6%	30	
TPH by EPA 418.1 - Solid								

BatchID: R7256	Units:	mg/Kg			A	nalysis Dat	e: 9/12/00		
Analyte -		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit	
Petroleum Hydrocarbons, TR		43.2	75.0%	75.9%	60%	140%	1.2%	30	

Page <u>8</u> Of <u>8</u>

Purchase Order/Chain Of Custody	Of Custody	Page of .
Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002	Phone: 972-727-9003 F	Fax: 972-727-9686
Bill To:		Analysis
Company: Khing ENVID SELV, JC, Purchase Order #: Address: D. D. D. V. U. 2.2. Address: P. D. BOX 57180	180	5/
8802 / City, State,	0816-68148	240 27- 02 1
3	x:505-797-4874	W V V V V V V V V V V V V V V V V V V V
	#:	\$ 70 h
" Lea Co		T T T T
HSAP Rush: 0% 25% 50% 100%		10 10 10 10
Client Sample ID	Date/Time Sample Notes	8 8 8
1 10-08050	5-00 1300	
2 /10/ 2	(1330	
M M	004/	
4.	1 1430	XXXXX
5.		
6. *		
7.		
8.		
9.		
10.		
Relinquished By // Date Time Received By // Date Time Sam	Sample Receipt Notes	In the event that Anachem determines that a
12 1 7-1-20 1700 Mark Mundell alle 10:00 Tem	Temperature on ice	Pay For Sample Using the client agrees to: Pay For Sample Disposal
Pres	Preserved Properly	Accept Keturned Sample
	COC Seals Intact	
Met	Method of Shipment Fed-Ex	
		USOCO # HOUSSIMAILE
010 REV 5/97	and conditions on the revence side	

|

|

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

١

|

ł

•



P.O. Box 25547 • Albuquerque, New Mexico 87125 Phone (505) 247-4646 • Fax (505) 797-4874

September 27, 2000

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 Rhino Commercial Landfarm Second Analytical Reports

Dear Ms. Kieling:

This report seeks to demonstrate actual TPH levels of native soil samples for all cells of both landfarm facilities.

As we discussed, the analytical results submitted as part of the August, 2000 quarterly reports demonstrated TPH concentrations above 100 ppm. The fact that TPH levels were close in concentration, and that this occurred in all three of Rhino's Lea County landfarms (two OCD and one NMED approved) prompted Rhino to conduct an investigation. It was determined that the piece of heavy equipment used to collect soil samples was contaminated. The equipment had been used on a job site excavating contaminated soil. The equipment was supposed to have been decontaminated prior to its removal from the project location, however, a miscommunication between the employee who had the responsibility of decontamination and the operator moving the equipment resulted in the equipments removal prior to decontamination.

Rhino's plan of action has been to collect new samples from the same approximate area and submit the soil for TPH analysis (Tables 1 and 2). The soil removed during the first sampling event has been spread in the cell it was removed from. The new results will be available within the week and will be sent to your office for review. The equipment has been decontaminated and the employees have been retrained concerning decontamination and equipment inspection procedures.

Rhino appreciates your time and consideration. Please contact me at (505) 644-2158 if you have any questions or require additional information.

Sincerek

Daniele Berardelli [/] Rhino Environmental Services, Inc.

Attachments

CC: Ms. Donna Williams OCD, District - 1 1625 North French Drive Hobbs, New Mexico 88240



TABLE NO. 1 - Analytical Results / Goo-Yea

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. 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.

Sample	BTEX	TPH	RCRA Total	Metals	General Ch	nemistry	pH
ID	mg/kg	mg/kg	mg/kg		mg/kg	-	1
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 200 ND 5350 2.04 ND 68.7 18.9 ND ND 6.86	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 2.81 0.665 0.114 ND ND 17.4	
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 223 ND 6050 2.6 ND 83.6 23.2 ND ND 9.38	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND 0.077 6.86 0.777 0.27 ND ND 22	
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 416 ND 2340 3.64 ND 115 31.8 ND ND 7.56	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND 0.115 10.1 0.958 0.134 ND ND 23.5	
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 309 ND 1680 3.93 1.61 127 33.4 ND ND 8.62	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND 0.157 16.6 0.907 0.087 ND ND 27.3	

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.

\$

TABLE NO. 2 - Analytical Results / Rhino OCD

Quarterly Native Soil Sampling:

One native soil sample was retrieved from every cell. Each sample was taken 2 to 3 feet below the natural soil surface, stored on ice and submitted to Anachem, Inc. for analysis. The samples were submitted for analysis by EPA method 418.1 and EPA method 8020. The analytical results are summarized in Table No. 2.

Sample	BTEX	TPH	RCRA Total M	letals	General Che	emistry
ID	mg/kg	mg/kg	mg/kg		mg/kg	-
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium	ND 305 ND 1030 6.55 3.48 158 50 ND ND ND 10.7	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND 0.134 13.2 1.07 0.104 ND ND 24.8
Conoco Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 100 ND 1630 4.78 ND 189 39.1 ND ND 7.65	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 1.57 0.959 0.046 ND ND 6.85
Conoco Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver	ND 280 ND 3660 3.3 ND 75.2 26.8 ND ND 7.25	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND 0.074 4.18 0.81 0.244 ND ND 12.6
Chevron Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver	ND 209 ND 4960 2.66 ND 75 23.5 ND ND 8.24	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND 0.118 9.27 0.758 0.552 ND ND 47.1



RHINO ENVIRONMENTAL SERVICES, INC.

Sample	BTEX	TPH	RCRA Tota	Metals	General Ch	emistry
ID	mg/kg	mg/kg	mg/kg		mg/kg	-
Chevron Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 153 ND 276 4.23 3.18 67.5 23.4 ND ND 7.72	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND 0.091 8.83 0.652 0.055 ND ND 39.5
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 192 ND 4960 1.99 ND 76.8 16.5 ND ND 6.94	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 1.2 0.859 0.051 ND ND 14.9
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	<10	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	ND 225 ND 5570 2.11 ND 74.8 16.6 ND ND 6.83	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 1.0 0.847 0.044 ND ND 13.7

Analyses for all samples demonstrate TPH and BTEX levels to be below detection, thereby demonstrating that no vertical contaminant migration has occurred.



٠,٠

ANACHEM INC.

8 Prestige Circle, Suite 104 Alien, Texas 75002 972/727-9003 • FAX # 972/727-9666 • 1-800-966-1166

September 22, 2000

Daniele Berardelli Rhino Env. Services- Anthony P.O. Box 4232

Anthony, NM 88021 TEL: 505-882-0449 FAX: 505-882-0563

Work Order: 0009079 Project: Rhino OCD Landfarm

Dear Client:

Anachem, Inc. received 7 samples on 09/08/2000 for the analyses presented in the following report.

The samples were analyzed for the following tests:

BTEX by EPA 8021 - Solid ICP Metals (EPA 6010) Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium Ion Chromatograph Solid (EPA 300.0) Mercury Digestion (EPA 7470) Mercury/Hg by Cold Vapor (EPA 7470) Microwave Digestion (EPA 3051) Solid TPH by EPA 418.1 - Solid

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.

0009079-01A To 0009079-07A

Page ____ Of ____

Visit us on the internet at http://www.anachem.com



ANACHEM INC.

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

September 22, 2000

Daniele Berardelli Rhino Env. Services- Anthony Work Order: 0009079 Project: Rhino OCD Landfarm

Respectfully Submitted, Anachem, Inc.

C Stento

C.E. Newton, Ph.D. Chemist

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.

0009079-01A To 0009079-07A

Page _____ Of _____

2013

Visit us on the internet at http://www.anachem.com

09/22/00 17:04 FAX

î

•

i i Ø014

Anachem, Inc.

Date: 22-Sep-00

CLIENT:	Rhino Env. Services-	Anthony					
Work Order:	0009079						
Project:	Rhino OCD Landfar	n					
Analyses	· · · · · · · · · · · · · · · · · · ·	Result	Limit	Units		Ľ	ate Analyzed
Lat D:	0009079-01A						
Client Sample II	D: Cell #1		Collection	1 Date:	9/5/00		
Location:	Hobbs, NM		Matrix:		SOIL		
0009079-01A	BTEX BY EPA 80	21 - SOLID		Pre	p Date:		Analyst: AT
BatchID: R7224				•			
Benzene		ND	0.4	mg/Kg			9/8/00
Toluene		ND	0.5	mg/Kg			9/8/00
Ethylbenzene		ND	0.6	mg/Kg			9/8/00
Xylenes, Total		ND	0.5	mg/Kg			9/ 8/0 0
0009079-01A	MERCURY/HG B	Y COLD VAPOR	R (EPA 7470)	Pre	p Date:		Analyst: BMC
BatchID: R7356			· · · ·	•			
Marcury		ND	0.02	mg/Kg			9/12/00
0009079-01A	ION CHROMATO	GRAPH SOLID	(EPA 300.0)	Pre	p Date:		Analyst: SD
BatchID: R7404							
Bromide		0.134	0.01	mg/Kg			9/20/00
Chloride		13.2	0.01	mg/Kg			9/20/00
Fluoride		1.07	0.01	mg/Kg			9/20/00
Nitrogen, Nitrate	(As N)	0.104	0.015	mg/Kg			9/20/00
Nitrogen, Nitrite		ND	0.01	mg/Kg			9/20/00
Phosphate		ND	0.01	mg/Kg			9/20/00
Sulfate		24.8	0.2	mg/Kg			9/20/00
0009079-01A	ICP METALS (EP	A 6010)		Pre	Date:	9/8/00 3:23:11	P Analyst: BMC
BatchID: 1897	···· ··· ··· ··· ··· ··· ··· ··· ··· ·						·····,···
Arsenic		ND	4	mg/Kg			9/8/00
Barium		305	0.12	mg/Kg			9/8/00
Cadmium		ND	0.12	mg/Kg			9/8/00
Calcium		1030	1	mg/Kg			9/8/00
Chromium		6.55	0.12	mg/Kg			9/8/00
Load		3.48	1.5	mg/Kg			9/8/00
Magnesium		158	1	mg/Kg			9/8/00
Potassium		50	1	mg/Kg			9/8/00
Selenium		ND	2	mg/Kg			9/8/00
Silver		ND	1	mg/Kg			9/8/00
Sodium		10.7	1	mg/Kg			9/8/00
0009079-01A	TPH BY EPA 418				p Date:	9/12/00	Analyst: AT
BatchiD: R7256							-
Petroleum Hydro	ccarbons, TR	ND	10	mg/Kg			9/12/00
Lab ID:	0009079-02A					a parama a reason de la constanción de la const	
Client Sample I			Collectio		9/5/00		

Qualifiers: ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page _____ Of _____

ļ.

09/22/00 17:05 FAX

. . • .

Anachem, Inc.

Date: 22-Sep-00

	Rhino Env. Services- A	Inthony					
Wor k Orde r:	0009079						
Project:	Rhino OCD Landfarm			_	_		
Analyses		Result	Limit	Units		Dat	e Analyzed
Location:	Hobbs, NM		Matrix:		SOIL		
0003079-02A	BTEX BY EPA 8021	- SOLID		Prej	o Date:		Analyst: AT
BatchID: R7224							
Benzene		ND	0.4	mg/Kg			9/8/00
Tcluene		ND	0.5	mg/Kg			9/8/00
Ethylbenzene		ND .	0.5	mg/Kg			9/8/00
Xylenes, Total		ND	0.5	mg/Kg			9/8/00
000 9079-02A	MERCURY/HG BY (COLD VAPOR	R (EPA 7470)	Prej	o Date:		Analyst: BMC
BatchID: R7356							
Mercury		ND	0.02	mg/Kg			9/12/00
0003079-02A BatchID: R7404	ION CHROMATOGR	APH SOLID	(EPA 300.0)	Pre	p Date:		Analyst: SD
Bromide		ND	0.01	mg/Kg			9/20/00
Chioride		1.57	0.01	mg/Kg			9/20/00
Fluoride		0.959	0.01	mg/Kg			9/20/00
Nitrogen, Nitrate (A	sN)	0.046	0.015	mg/Kg			9/20/00
Nitrogen, Nitrite (As	5 N)	ND	0.01	mg/Kg			9/20/00
Phosphate		ND	0.01	mg/Kg			9/20/00
Sulfate		6.85	0.2	mg/Kg			9/20/00
0009079-02A	ICP METALS (EPA	6010)			o Date: 9/	8/00 3:23:11 P	Analyst: BMC
BatchID: 1897	·						,
Arsenic		ND	1	mg/Kg			9/8/00
Berium		100	0.12	mg/Kg			9/8/00
Cadmium		ND	0.12	mg/Kg			9/8/00
Cadolum		1630	1	mg/Kg			9/8/00
Chromium		4.78	0.12	mg/Kg			9/6/00
Lead		ND	1.5	mg/Kg			9/8/00
Magnesium		189	1	mg/Kg			9/8/00
Potassium		39.1	1	mg/Kg			9/8/00
Selenium		ND	2	mg/Kg			9/8/00
Silver		ND	1	mg/Kg			9/8/00
Scdium		7.65	1	mg/Kg			9/8/00
0009079-02A BatchID: R7256	TPH BY EPA 418.1	- Solid		Pre	p Date: 9/	12/00	Analyst: AT
Petroleum Hydroca	urbons, TR	ND	10	mg/Kg			9/12/00
Lab ID:	0009079-03A						
Client Sample ID	: Conoco Cell #2		Collection	n Date:	9/5/00		
Location:	Hobbs, NM		Matrix:		SOIL		
0009079-03A BatchID: R7224	BTEX BY EPA 8021	- SOLID	····	Pre	p Date:		Analyst: AT

B - Analyte detected in the associated Method Blank

Page _____ Of _____

09/22/00 17:06 FAX

•

2016

Amachem, Inc.

Date: 22-Sep-00

CLIENT:	Rhino Env. Services	- Anthony				
Work Order:	0009079					
Project:	Rhino OCD Landfar	m				
Analyses		Result	Limit	Units		Date Analyzed
Benzene		ND	0.4	mg/Kg	·····	9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/Kg		9/8/00
Xytenes, Total		ND	0.5	mg/Kg		9/8/00
0009079-03A	MERCURY/HG B	Y COLD VAPOR	R (EPA 7470)	Prep Da	te:	Analyst: BMC
BatchID: R7356				·		•
Mercury		ND	0.02	mg/Kg		9/12/00
0009079-03A	ION CHROMATO	GRAPH SOLID	(EPA 300.0)	Prep Da	te:	Analyst: SD
BatchiD: R7404				-		-
Bromide		0.074	0.01	mg/Kg		9/20/00
Chioride		4.18	0.01	mg/Kg		9/20/00
Fluoride		0.81	0.01	mg/Kg		9/20/00
Nhrogen, Nitrate	(As N)	0.244	0.015	mg/Kg		9/20/00
Nitrogen, Nitrite ((As N)	ND	0.01	mg/Kg		9/20/00
Phosphate		ND	0.01	mg/Kg		9/20/00
Sulfate		12.6	0.2	mg/Kg		9/20/00
0009079-03A	ICP METALS (EI	PA 6010)		Prep Da	te: 9/8/00 3:23:	11 P Analyst: BMC
BatchID: 1897		·		-		-
Arsenic		ND	1	mg/Kg		9/8/00
Barium		280	0.12	mg/Kg		9/8/00
Cadmlum		ND	0.12	mg/Kg		9/8/00
Calcium		3660	1	mg/Kg		9/8/00
Chromlum		3.3	0.12	mg/Kg		9/8/00
Lead		ND	1.5	mg/Kg		9/8/00
Magnesium		75.2	1	mg/Kg		9/8/00
Potassium		26.8	1	mg/Kg		9/8/00
Selenium		ND	2	mg/Kg		9/8/00
Silver		ND	1	mg/Kg		9/8/00
Sodium		7.25	1	mg/Kg		9/8/00
0009079-03A	TPH BY EPA 41	8.1 - S OLI D			ite: 9/12/00	Analyst: AT
BatchID: R7256				•••		•
Petroleum Hydro	carbons, T'R	ND	10	mg/Kg		9/12/00
Lab ID:	0009079-04A					······································
Client Sample I		New BG	Collectio	n Date: 9/3	5/00	
Location:	Hobbs, NM		Matrix:		DIL	
0009079-04A BatchID: R7224	BTEX BY EPA 8	021 - SOLID		Prep Da	ite:	Analyst: AT
Benzene		ND	0.4	mg/Kg		9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Etnylbenzene		ND	0.5	mg/Kg		9/8/00
Xylenes, Total		ND	0.5	mg/Kg		9/8/00

Qualifiers: ND - Not Detected at the Reporting Limit

Page _**5** Of _//_

-

Date: 22-Sep-00

CLIENT:	Rhino Env. Services-	Anthony					
Work Order:	0009079						
Project:	Rhino OCD Landfarm	1					
Analyses		Result	Limit	Units		Dat	e Analyzed
00 9079-04A	MERCURY/HG BY	COLD VAPOR	R (EPA 7470)	Prep	Date:		Analyst: BMC
BatchiD: R7356							
Morcury		ND	0.02	mg/Kg	_		9/12/00
0009079-04A	ION CHROMATOG	RAPH SOLID	(EPA 300.0)	Prep	Date:		Analyst: SD
BatchID: R7404							
Bromide		0.118	0.01	mg/Kg			9/20/00
Chloride		9.27	0.01	mg/Kg			9/20/00
Fluoride		0.758	0.01	mg/Kg			9/20/00
Nitrogen, Nitrate		0.552	0.015	mg/Kg			9/20/00
Nitrogen, Nitrite ((As N)	ND	0.01	mg/Kg			9/20/00
Phosphate		ND	0.01	mg/Kg			9/20/00
Sulfate		47.1	0.2	mg/Kg			9/20/00
0009079-04A	ICP METALS (EP/	A 6010)		Prej	o Date:	9/8/00 3:23:11 P	Analyst: BMC
BatchID: 1897							
Arsenio		ND	1	mg/Kg			9/8/00
Barlum		209	0.12	mg/Kg			9/8/00
Cadmium		ND	0.12	mg/Kg			9/8/00
Celcium		4960	1	mg/Kg			9/8/00
Chromium		2.66	0.12	mg/Kg			9/8/00
Lead		ND	1.5	mg/Kg			9/8/00
Magnesium		75	1	mg/Kg			9/8/00
Potassium		23.5	1	mg/Kg			9/8/00
Selenium		ND	2	mg/Kg			9/8/00
Silver		ND	1	mg/Kg			9/8/00
Scdium		8.24	1	mg/Kg			9/8/00
0009079-04A BatchID: R7256	TPH BY EPA 418.	1 - SOLID		Pre	p Date:	9/12/00	Analyst: AT
Petroleum Hydro		ND	10	mg/Kg			9/12/00
Lab ID:	0009079-05A						
Chient Sample 1	D: Chevron Cell #2 N	lew BG	Collectio	n Date:	9/5/00)	
Location:	Hobbs, NM		Matrix:		SOIL		
0009079-05A BatchiD: R7224	BTEX BY EPA 802	21 - SOLID		Pre	p Date:		Analyst: AT
Benzene		ND	0.4	mg/Kg			9/8/00
Tcluene		ND	0.5	mg/Kg			9/8/00
Ethylbenzene		ND	0.5	mg/Kg			9/8/00
Xylenes, Total		ND	0.5	mg/Kg			9/8/00
0009079-05A	MERCURY/HQ B)				p Date:		Analyst: BMC
BatchiD: R7356			······································				
Marcury		ND	0.02	mg/Kg			9/12/00

Qualiflers: ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page 6_ Of 11

09/22/00 17:08 FAX

.

Anachem, Inc.

Date: 22-Sep-00

CLIENT:	Rhino Env. Services- A	nthony				
Work Order:	0009079					
Project:	Rhine OCD Landfarm					
Analyses		Result	Limit	Units	Dat	e Analyzed
0009079-05A	ION CHROMATOGR	APH SOLID	(EPA 300.0)	Prep Date:		Analyst: SD
BatchiD: R7404						
Bromide		0.091	0.01	mg/Kg		9/20/00
Chloride		8.83	0.01	mg/Kg		9/20/00
Fluoride		0.652	0.01	mg/Kg		9/20/00
Nitrogen, Nitrate	(As N)	0.055	0.015	mg/Kg		9/20/00
Nhrogen, Nitrite	(As N)	ND	0.01	mg/Kg		9/20/00
Phosphate		ND	0.01	mg/Kg		9/20/00
Sulfate		39.5	0.2	mg/Kg		9/20/00
0009079-05A	ICP METALS (EPA 6	6010)		Prep Date:	9/8/00 3:23:11 P	Analyst: BMC
BatchID: 1897		·				-
Arsenic		ND	1	mg/Kg		9/8/00
Bartum		153	0.12	mg/Kg		9/8/00
Cadmium		ND	0.12	mg/Kg		9/8/00
Celoium		276	1	mg/Kg		9/8/00
Chromium		4.23	0.12	mg/Kg		9/8/00
Lead		3.16	1.5	mg/Kg		9/8/00
Magnesium		67.5	1	mg/Kg		9/8/00
Potassium		23.4	1	mg/Kg		9/8/00
Seienium		ND	2	mg/Kg		9/8/00
Silver		ND	1	mg/Kg		9/8/00
Sodium		7.72	1	mg/Kg		9/8/00
000 3079-05A	TPH BY EPA 418.1	- SOLID		Prep Date:	9/12/00	Analyst: AT
BatchID: R7256						
Petroleum Hydro		ND	10	mg/Kg		9/12/00

Lab ID: 0009079-06A

Client Sample ID: Location:	Cell #2 New Background Hobbs, NM		Collection Matrix:	Date:	9/5/00 SOIL	
0009079-06A BatchiD: R7224	BTEX BY EPA 8021 - SO	LID		Pre	p Date:	Analyst: AT
Benzene		ND	0,4	mg/Kg		9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/Kg		9/8/00
Xylenes, Total		ND	0.5	mg/Kg		9/8/00
0009079-06A BatchID: R7356	MERCURY/HG BY COLD	VAPOR (EP	A 7470)	Pre	p Date:	Analyst: BMC
Mercury		ND	0.02	mg/K g		9/12/00

Qualifiers: ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page _7_ Of _//

09/22/00 17:09 FAX

Ø019

Anachem, Inc.

Date: 22-Sep-00

Date Analyzed

Analyst: SD

9/20/00 9/20/00

CLEENT:	Rhino Env. Services- Ant	hony		
Work Order:	0009079			
Project:	Rhino OCD Landfarm			
Analyses		Result	Limit	Units
0009079-06A	ION CHROMATOGRA	PH SOLID	(EPA 300.0)	Prep Date:
BatchiD: R7404				
Bromide		ND	0.01	mg/Kg
Chloride		1.2	0.01	mg/Kg
Fluoride		0.859	0.01	mg/Kg
Nitrogen, Nitrate	(As N)	0.051	0.015	mg/Kg
Nitrogen, Nitrite	(As N)	ND	0.01	mg/Kg
Phosphate		ND	0.01	mg/Kg
Sulfate		14.9	0.2	mg/Kg
0009079-06A	ICP METALS (EPA 60	10)		Prep Date:
BatchID: 1897	-	•		-
Arsenic		ND	٦	mg/Kg
Barlum		192	0.12	mg/Kg
Cadmium		ND	0.12	mg/Kg

ebhouli		0.859	0.01	mg/Kg	9/20/00
Nitrogen, Nitrate (A	sN)	0.051	0.015	mg/Kg	9/20/00
Nitrogen, Nitrite (As	s N)	ND	0.01	mg/Kg	9/20/00
Phosphate		ND	0.01	mg/Kg	9/20/00
Sulfate		14.9	0.2	mg/Kg	9/20/00
0009079-06A	ICP METALS (E	PA 6010)		Prep Date: 9/8/00 3:23:11	P Analyst: BMC
BatchID: 1897	•	•		-	-
Arsenic		ND	٦	mg/Kg	9/8/00
Barlum		192	0.12	mg/Kg	9/8/00
Cadmium		ND	0.12	mg/Kg	9/8/00
Calcium		4960	1	mg/Kg	9/8/00
Chromium		1.99	0.12	mg/Kg	9/8/00
Lead		ND	1.5	mg/Kg	9/8/00
Magnesium		76.8	1	mg/Kg	9/8/00
Potassium		16.5	1	mg/Kg	9/8/00
Selenium		ND	2	mg/Kg	9/8/00
Silver		ND	1	mg/Kg	9/8/00
Sodium		6.94	1	mg/Kg	9/8/00
0009079-06A	TPH BY EPA 41	8.1 - SOLID		Prep Date: 9/12/00	Analyst: AT
BatchID: R7256					-
Petroleum Hydroca	arbons, TR	ND	10	mg/Kg	9/12/00

Lab ID: 0009079-07A

Client Sample ID:	Cell #3 New Background		Collection Date:		9/5/00	
Location:	Hobbs, NM		Matrix:		SOIL	
0009079-07A BatchID: R7224	BTEX BY EPA 8021 - SO	LID		Prep	Date:	Analyst: AT
Banzene		ND	0.4	mg/Kg		9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/Kg		9/8/00
Xylenes, Total		ND	0.5	mg/Kg		9/8/00
0009079-07A BatchID: R7356	MERCURY/HG BY COLD	VAPOR (I	EPA 7470)	Prep	Date:	Analyst: BMC
Mercury		ND	0.02	mg/Kg		9/12/00

Qualifiers: ND - Not De

ND - Not Detected at the Reporting Limit

Page _____ Of ____/

09/22/00 17:10 FAX

Anachem, Inc.

2

Date: 22-Sep-00

CLIENT:	Rhino Env. Service	es- Anthony			
Work Order:	0009079				
Project:	Rhino OCD Landf	arm			
Analyses		Result	Limit	Units	Date Analyzed
0009079-07A	ION CHROMAT	OGRAPH SOLID	(EPA 300.0)	Prep Date:	Analyst: SD
BatchID: R7404					
Bromide		ND	0.01	mg/Kg	9/20/00
Chloride		1	0.01	mg/Kg	9/20/00
Fluoride		0.847	D.01	mg/Kg	9/20/00
Nitrogen, Nitrate	(As N)	0.044	0.015	mg/Kg	9/20/00
Nitrogen, Nitrite	(As N)	ND	0.01	mg/Kg	9/20/00
Phosphate		ND	0.01	mg/Kg	9/20/00
Sulfate		13.7	0.2	mg/Kg	9/20/00
0009079-07A	ICP METALS (I	EPA 6010)		Prep Date:	9/8/00 3:23:11 P Analyst: BMC
BatchID: 1897					-
Aisenic		ND	1	mg/Kg	9/8/00
Barium		225	0.12	mg/Kg	9/8/00
Cadmium		ND	0.12	mg/Kg	9/8/00
Calelum		5570	1	mg/Kg	9/8/00
Ch romiu m		2.11	0.12	mg/Kg	9/8/00
Levaid		ND	1.5	mg/Kg	9/8/00
Magnesìum		74.8	1	mg/Kg	9/8/00
Potassium		16.6	1	mg/Kg	9/8/00
Selenium		ND	2	mg/Kg	9/8/00
Silver		ND	1	mg/Kg	9/8/00
Sodium		6.83	1	mg/Kg	9/8/00
0009079-07A BatchID: R7256	TPH BY EPA 4	18.1 - SOLID		Prep Date:	9/12/00 Analyst: AT
Petroleum Hydr		ND	10	mg/Kg	9/12/00

Qualifiers:

ND - Not Detected at the Reporting Limit

Page _____ Of _____

09/22/00 17:10 FAX

v n

•

Anachem, Inc.

Date: 22-Sep-00

CLIENT:	Rhino Env. Servi	ces- Anthon	V			OC ST	IMM A D	Y REPOR
	0009079		•			QUBU		
	Rhino OCD Land	farm						
CP Metals (EPA 60"	10)				·			
BatchID: 1897	Units:	mg/Kg			A	nalysis Date	; 9/8/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Arsenic		200	100.8%	99.3%	75%	125%	1.7%	15
Barlum		200	97.5%	86.0%	75%	125%	5.6%	15
Cadmium		200	92.6%	94.6%	75%	125%	2.1%	15
Chromium		200	87.9%	89.9%	75%	125%	2.2%	15
ead		200	90.8%	91.3%	75%	125%	0.6%	15
Selenium		200	91.5%	93.5%	75%	125%	2.2%	15
Silver		200	101.0%	104.0%	75%	125%	3.0%	15
CP Metals (EPA 60	10)							_
BatchID: 1897	Units:	mg/Kg			A	nalysis Date	a: 9/8/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Arsenic		200	82.5%	93.5%	75%	125%	1.1%	15
Barlum 🎽		200	132.0%	161.0%	75%	125%	9.6%	15
Cadmium		200	90.6%	90.1%	75%	125%	0.6%	15
Chromium		200	88.0%	88.0%	75%	125%	0.0%	15
Lead		200	88.7%	88.7%	75%	125%	0.0%	15
Selenium		200	96.4%	98.9%	75%	125%	2.7%	15
Silver		200	96.9%	95.9%	75%	125%	1.0%	15
Mercury/Hg by Cole	d Vapor (EPA 7470))						_
BatchID: R7356	Units:	mg/Kg			A	Inalysis Date	e: 9/12/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Mercury		0.5	85.0%	89.0%	75%	125%	4.8%	15
Mercury/Hg by Cok	d Vapor (EPA 7470)						
BatchID: R7356	Units:	mg/Kg			1	Analysis Dat	a: 9/12/00	
Analyte	011101	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Mercury		0.5	78.0%	88.6%	75%	125%	12.7%	15
Ion Chromatograpi	n Solid (EPA 300.0)							
BatchID: R7404	Units:	mg/Kg			Ļ	Analysis Dat	e: 9/20/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	-	%RPD	RPDLImit
Bromide		0.596	104.9%	105.0%	80%	120%	0.2%	15
Chloride		2.49	110.7%	107.7%	80%	120%	1.9%	15
Fluoride		1.82	104.1%	97.4%	80%	120%	4.7%	15
Nitrogen, Nitrate (As	5 N)	8.759	93.0%	90.2%	80%	120%	3.0%	15
Nitrogen, Nitrite (As	•	0.1046	96.6%	91.8%	80%	120%	0.0%	15
Phosphate	•	13.44	92.3%	90.8%	80%	120%	1.6%	15
Sulfate		13.45	108.7%	106.2%	80%	120%	1.7%	15

* Spiked QC sample very high in barium. Barium check standards yield 104.2% and 106.7% recoveries.

Page <u>/0</u> Of <u>//</u>

Ø021

<u>09/22/00</u> 17:11 FAX

i

Į.

Anachem, Inc.

Date: 22-Sep-00

Work Order: 00	nino Env. Servi 109079 nino OCD Land		у			QC SU	UMMAR	RY REPORT
BTEX by EPA 8021 - S	olid					<u></u>		
BatchID: R7224	Unite:	•••				nalysis Dat		
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%APD	RPDLimit
Benzene		100	101.0%	104.0%	70%	130%	2.9%	30
Toluene		100	103.0%	105.0%	70%	130%	1.9%	30
Ethylbenzene		100	101.0%	104.0%	70%	130%	2.9%	30
Xylenes, Total		300	101.0%	103.7%	70%	130%	2.6%	30
TPH by EPA 418.1 - So	blid							*******
BatchID: R7256	Units:	mg/Kg			۵	nalysis Dat	e: 9/12/00	
Anaiyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Petroleum Hydrocarbor	as. TR	43.2	75.0%	75.9%	60%	140%	1.2%	30

Page // Of //

Submission # OCO YO / 7	Subi					·				
		Method of Shipment Fed-Ex	5371		-					
•		COC Seals Intact	1•••• <u>•</u>							
		Preserved Property	Э.			, (
Pay For Sample Disposal		Temperature ON / Q	10:00	<u>a/8/2</u>	homehil	Mond 1	1700	7-7-00	Z	and a star
In the event that Anachem determines that a commis is harardout the client agree to:	5	Sample Receipt Notes	Time	Date	N.	Required by	Time	7 Date	10	Relinquished
			• •						10.	
									.9	
									. 0	
XXX	\succ	1045	e inga	R	New Background	New Be	#3		7. (-07
XXX	X	1 1020		R.	ackarow	NewB	# 2	Cell.	6.	90 -
1× XX	×	1000		(Y)	New BG	عر	once	heve	'n	50
XXX	×	0930			New BG	1#	ChevronCell#1	heur	4 .	40-
XXX	\succ	0580	1 1 1 1 1			C#1	3. Conoco Cell #	onoc		50-
	X	5180				1 ++ 1	2 Conoco Cell #	onoc		-02
XXX	$\left \right\rangle$	9-5-00 07.45	Soil	5			#	1. Cell # 1		10-12-06000
1 A 6	E	· ·		Matrix				Client Sample ID	Clier	Lab#
2C	ΓP		: [.]	ă.	100% Sampled By:	50%	ASTA Prish: 0% 25%	P PRush:	Asr	Date Due:
RI RI	h		2104 2015 2015	CM CM	City, State:		# - 4	Sqaat	Hol	Project Locations
4		Quote #:			ann	Rhino OCO Landfarm	CD V	no O	Rhi	Project Name:
1c	Ч	Phone 505-882-0449 Fai: 505-882-0563 Mome: 505-247-4646 Fai: 505-797-4874	1-464	-247	3 Phone: 5D	882-056	Sos	149 Fa	82-04	homeSUS-8
202 at Me	18.	City, State, Zip: Albug Min 87187-1680	L Crig	I U ist	City, State, 7	1 6088	null ull	Uno	tata	hy, State, Zip: /
07	1	0812	у С С),0 . E			يۇد س	4 X0	0 0	-
			1944 - 1		ŀ	V. In	r. Ser	Envi	in o	Company: Rh
Analyst			8 hino	er) B	Bill To: (Buyer)	amele Berardelli	raid	e Be	me	Report To:
Fax: 972-727-9686	F20: 9	Phone: 972-727-9003	Aflen, TX 75002		8 Prestige Circle, Suite 104,	. 8 Prestige	Anachem, Inc.	lacher	P	
				1			L	L	•	

09/22/00 17:12 FAX

.

2023



ANACHEM INC.

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

September 22, 2000

Daniele Berardelli Rhino Env. Services- Anthony P.O. Box 4232

Anthony, NM 88021 TEL: 505-882-0449 FAX: 505-882-0563

Work Order: 0009080 Project: Goo-Yea Landfarm

Dear Client:

Anachem, Inc. received 4 samples on 09/08/2000 for the analyses presented in the following report.

The samples were analyzed for the following tests:

BTEX by EPA 8021 - Solid ICP Metals (EPA 6010) Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium Ion Chromatograph Solid (EPA 300.0) Mercury Digestion (EPA 7470) Mercury/Hg by Cold Vapor (EPA 7470) Microwave Digestion (EPA 3051) Solid TPH by EPA 418.1 - Solid

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.

0009080-01A To 0009080-04A

Page ____ Of ____

Visit us on the internet at http://www.anachem.com



ANACHEM INC.

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

September 22, 2000

Daniele Berardelli Rhino Env. Services- Anthony Work Order: 0009080 Project: Goo-Yea Landfarm

Respectfully Submitted, Anachem, Inc.

CENew

C.E. Newton, Ph.D. Chemist

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.

0009080-01A To 0009080-04A

Page <u>2</u> Of <u>8</u>

Ø003

Visit us on the internet at http://www.anachem.com

09/22/00 16:56 FAX

Anachem, Inc.

۰.

Ø. 004

Date: 22-Sep-00

CLIENT:	Rhino Env. Services-	Anthony	(Client Sample ID:	Cell 1	
Work Order:	0009080		I	ocation:	Lea Co., NM	
Project:	Goo-Yea Landfarm		C	Collection Date:	9/5/00	
Lab ID:	0009080-01A		N	Matrix:	SOIL	
Analyses		Result	Limit	Units	D	ate Analyzed
BTEX BY EPA 6	021 - SOLID			Prep Date	e:	Analyst: AT
BatchID: R7224						
Berizane		ND	0.4	mg/Kg		9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/K g		9/8/00
Xylenes, Total		ND	0.5	mg/Kg		9/8/00
MERCURY/HG Batch]D: R7356	BY COLD VAPOR (EPA	7470}		Prep Dat	6:	Analyst: BMC
Mercury		ND	0.02	mg/Kg		9/12/00
•	OGRAPH SOLID (EPA 3	00.0)		Prep Dat	e:	Analyst: SD
BatchiD: R7390						
Bronide		ND	0.01	mg/Kg		9/20/00
Chloride		2.81	0.01	mg/Kg		9/20/00
Fluoride		0.665	0.01	mg/Kg		9/20/00
Nitrogen, Nitrate	(As N)	0.114	0.015	mg/Kg		9/20/00
Nitrogen, Nitrite	(As N)	ND	0.01	mg/Kg		9/20/00
Phosphate	, ,	ND	0.01	mg/Kg		9/20/00
Sulfate		17.4	0.2	mg/Kg		9/20/00
ICP METALS (E	PA 6010)			• •	e: 9/8/00 3:23:11	P Analyst: BMC
BatchID: 1897	, , , , , , , , , , , , , , , , , , ,					
Arsenic		ND	1	mg/Kg		9/8/00
Barium		200	0.12	mg/Kg		9/8/00
Cadmium		ND	0.12	mg/Kg		9/8/00
Calcium		5350	1	mg/Kg		9/8/00
Chromium		2.04	0.12	mg/Kg		9/8/00
Lead		ND	1.5	mg/Kg		9/8/00
Magnesium		68.7	1	mg/Kg		9/8/00
Potassium		18.9	1	mg/Kg		9/8/00
Selenium		ND	2	mg/Kg		9 / 8/00
Sfiver		ND	1	mg/Kg		9/8/00
Sodium		6.86	1	mg/Kg		9/8/00
TPH BY EPA 41 BatchID: R7256				Prep Dat	e: 9/12/00	Analyst: AT
Petroleum Hydr		ND	10	mg/Kg		9/12/00

Qualifiers: ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page <u>3</u> Of <u>8</u>

Anachem, Inc.

.

CLIENT: Work Order:	Rhino Env. Services 0009080	Anthony		Client Sample ID: Location:	Lea Co., NM	
Project:	Goo-Yea Landfarm			Collection Date:	9/5/00	
Lab ID:	0009080-02A		· · · · · · · · · · · · · · · · · · ·	Matrix:	SOIL	
Analyses		Result	Limit	Units	Dat	e Analyzed
BTEX BY EPA	8021 - SOLID			Prep Dat	e:	Analyst: AT
BatchID: R7224	,					
Berizane		ND	0.4	mg/Kg		9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/Kg		9/8/00
Xylenes, Total		ND	0.5	mg/Kg		9/8/00
MERCURY/HG BatchID: R7356	BY COLD VAPOR (EPA	7470)		Prep Dat	9:	Analyst: BMC
Mercury		ND	0.02	mg/Kg		9/12/00
-	OGRAPH SOLID (EPA 3	00.0)		Prep Dat	6:	Analyet: SD
BatchID: R7390	•	,				,
Bromide		0.077	0.01	mg/Kg		9/20/00
Chloride		6.86	0.01	mg/Kg		9/20/00
Fluoride		0.777	0.01	mg/Kg		9/20/00
Nitrogen, Nitrat	e (As N)	0.27	0.015	mg/Kg		9/20/00
Nitrogen, Nitrite		ND	0.01	mg/Kg		9/20/00
Phosphate	· · ·	ND	0.01	mg/Kg		9/20/00
Sulfate		22	0.2	mg/Kg		9/20/00
ICP METALS (EPA 6010)			Prep Dat	te: 9/8/00 3:23:11 P	Analyst: BMC
BatchID: 1897				•		
Arsenic		ND	1	mg/Kg		9/8/00
Barium		223	0.12	mg/Kg		9/8/00
Cadmium		ND	0.12	mg/Kg		9/B/00
Caktum		6050	1	mg/Kg		9/8/00
Chromium		2.6	0.12	mg/Kg		9/8/00
Lead		ND	1.5	mg/Kg		9/B/00
Magnesium		83.6	1	mg/Kg		9/8/00
Potessium		23.2	1	mg/Kg		9/8/00
Selenium		ND	2	mg/Kg		9/8/00
Silver		ND	1	mg/Kg		9/8/00
Sodium		9.38	1	mg/Kg		9/8/00
TPH BY EPA 4	16.1 - SOLID				te: 9/12/00	Analyst: AT
BatchID: R725	6					
Detucioum Litra		10	10			0/10/00

Petroleum Hydrocarbons, TR

Qualifiers: ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

ND

10

mg/Kg

9/12/00

Date: 22-Sep-00

Anachem, I	Inc.
------------	------

```
Date: 22-Sep-00
```

.

CLIENT:	Rhino Env. Services-	Anthony		Client Sample ID:	Cell 3	
Work Order:	0009080			Location:	Lea Co., NM	
Project:	Goo-Yea Landfarm			Collection Date:	9/5/00	
Lab ID:	0009080-03A			Matrix:	SOIL	
Analyses		Result	Limit	Units	Da	te Analyzed
BTEX BY EPA 8 BatchID: R7224	8021 - SOLID			Prep Dat	9:	Analyst: AT
Berizene		ND	0.4	mg/Kg		9/8/00
Toluene		ND	0.5	mg/Kg		9/8/00
Ethylbenzene		ND	0.5	mg/Kg		9/8/00
Xyienes, Total		ND	0.6	mg/Kg		9/8/00
	BY COLD VAPOR (EPA		•	Prep Dat	e:	Analyst: BMC
BatchID: R7356		· · · · · · · · · · · · · · · · · · ·				
Mercury		ND	0.02	mg/Kg		9/12/00
-	OGRAPH SOLID (EPA	300.0)		Prep Dat	e:	Analyst: SD
BatchID: R7390	•	,				•
Bromide		0.115	0.01	mg/Kg		9/20/00
Chloride		10.1	0.01	mg/Kg		9/20/ 00
Fluoride		0.958	0.01	mg/Kg		9/20/00
Nitrogen, Nitrate	9 (As N)	0.134	0.015	mg/Kg		9/20/00
Nitrogen, Nitrite	(As N)	ND	0.01	mg/Kg		9/20/00
Phosphate		ND	0.01	mg/Kg		9/20/00
Sulfate		23.5	0.2	mg/Kg		9/20/00
ICP METALS (E	EPA 6010)			Prep Dat	te: 9/8/00 3:23:11 P	' Analyst: BMC
BatchID: 1897						
Arsenic		ND	1	mg/K g		9/8/00
Barium		416	0.12	mg/Kg		9/8/00
Cadmium		ND	0.12	mg/Kg		9/8/00
Cakium		2340	1	mg/Kg		9/8/00
Chromium		3.64	0.12	• •		9/8/00
Lead		ND	1.5	mg/Kg		9/8/00
Magnesium		115	1	mg/Kg		9/8/00
Potussium		31.8	1	mg/Kg		9/8/00
Selenium		ND	2	mg/Kg		9/8/00
Silver		ND 7 FG	1	mg/Kg		9/8/00
Sodium		7.56	1	mg/Kg	A 0/10/00	9/8/00
TPH BY EPA 4				Prep Da	te: 9/12/00	Analyst: AT
BatchID: R7256		10	10			0/10/00
Petroleum Hydi	ICCATOONS, IH	DN	10	mg/Kg		9/12/00

Qualifiers: ND - Not Detected at the Reporting Limit

l

B - Analyte detected in the associated Method Blank

Page <u>5</u> Of <u>8</u>

Purchase Order/Chain Of Custody $n_{anachem, Inc. energe Order, Sale 104, Ale, 1X 7000 Face 972-773-003 Fac 972-773-003 Same P. 0. Box Curd et 111 Inite Gener Bh / 0.0 Anachem, Inc. energe Order, Sale 104, Ale, 1X 7000 Face 972-773-003 Same P. 0. Box Curd et 111 Names D 882, OUL 756, Ale 7, 777 Names D 882, OUL 780, Ale 7, 777 Names D 882, OUL 700, Same In M Names D 882, OUL 700, Same In M Names D 882, OUL 700, Same In M Name Sor - 787 - 187 Out same b. Ale 11 Ale 11 Ale 11 Out on Same In M Same Non Out on Same In M Same Non Ale 11 Ale 11 $									010 REV 5/97
Hurchase Order/Chain Of Custody Grob, Salte 104, Allen, 1X 75002 Phone: 972-727-9003 Fa Bill To: (Buyer) $A/h_1^{+1} \cap O$ Phone: 972-727-9003 Fa Nadress: $P \circ O$. $O \oplus X \leq 71.80$ Phone: $Sig - 247 - 4/6.44$ Fax. $So T - 797 - 4874$ Phone: $Sig - 247 - 4/6.44$ Fax. $So T - 797 - 4874$ None: $Sig - 247 - 4/6.44$ Fax. $So T - 797 - 4874$ Phone: $Sig - 71.80$ None: $Sig - 247 - 4/6.44$ Fax. $So T - 797 - 4874$ None: $Sig - 247 - 4/6.44$ Fax. $So T - 797 - 4874$ None: $Sig - 247 - 4/6.44$ Fax. $So T - 797 - 4874$ None: $Sig - 247 - 4/6.44$ Fax. $So T - 797 - 4874$ None: $So + 17.46$ Simple by: Date/Time Nambled by: Nator Time Nambled by: Nator Time Nator Time Sample Notes (13.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0) (14.3.0)	Submission # 0009080	L		;			- - -		
Purchase Order/Chain Of Custody Grde, Suite 104, Aller, TX 75002 Phone: 972-727-9003 Fa Bill To: (Bayer) $A/h_1' \cap \odot$ Phone: 972-727-9003 Fa Nurhase Onder #: $A/h_2' \cap \odot$ $B/h_2' \cap \odot$ Phone: 972-727-9003 Fa Address: $P.O. O.OC X 57180$ $O.OC Sale Intra Phone: Size 7180 O.OC Sale Intra Phone: Size 7180 Address: P.O.OC Size 7180 Ounte #: Ounte #: Ounte #: Phone: Size 7180 More: Sampled By: Non: Ounte #: Ounte #: Ounte #: Ointe #: Oi$			Method of Shipme	ڈیری آ دی					
Bill To: (Bayer) $Allen, TX 75002$ Phone: 972-727-9003 Fa Bill To: (Bayer) $Alh'_1 \cap 0$ Fa Fa Purchase Order #: $Adress: P. 0. BOX 57180$ Fa Adress: P. 0. BOX 57180 Fa Fa Ordy, State, 70: All Dug, 100 State, 797-7180 Fa Fa Mone: SGT-24/7-4/6 4/6 FacSoT - 797-4874 Outle #: Fa Mone: SGT-34/7-4/6 4/6 FacSoT - 797-4874 Outle #: Fa Mone: SGT-34/7-4/6 4/6 FacSoT - 797-4874 Outle #: Fa Mone: SGT-34/7-4/6 4/6 FacSoT - 797-4874 Outle #: Fa Mone: SGT-34/7-4/6 4/6 FacSoT - 797-4874 Outle #: Fa Math Date/Time Sample Notes Sample Notes Math Date/710 1/400 1/430 1/430 Math Date/710 1/430 1/430 1/430 1/430 Math Date/710 1/430 1/430 1/430 1/430 Math Date/710 Temperature 0/1/12 1/430 1/430 Math Date/702 Temperature 0/1/12 1/430 1/430			COC Seals Intact		· •				ï
turchase Order/Chain Of Custody Grote, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fa Bill To: (Bayer) $Allen, TX 75002$ Phone: 972-727-9003 Fa Murchase Onder #: $Adress: P. 0. BOX 57180$ Address: P. 0. BOX 57180 $Chy, State, Th: All blug, Ihm 87187-7180$ Chy, State, Th: All blug, Ihm 87187-7180 Mone: $Sup - 747-4/6$ 4/6 Face $Sup - 7180$ Mone: $Sup - 747-4/6$ 4/6 Face $Sup - 747-4/874$ Mone: $Sup - 747-4/6$ 7/6 Face $Sup - 747-4/874$ Mone: $Sup - 747-4/874$ Mone: $Sup - 747-4/874$ Max Sampled By: Mark Date Time Sampled By: Mark Date 710 (12) Date The Sample By: Mark Date (12) (12) Date The Sample Receipt Notes Inde	Arcept Kemmen Sample		Preserved Property			2		۰. ا	/
Urrchase Order/Chain Of Custody Bill To: (Bayer) $D_1' \cap 0$ Bill To: (Bayer) $D_1' \cap 0$ Parchase Onder #: $Adress: P. 0. BOX 57180$ Address: $P. 0. BOX 57180$ Otry, State, Th: $AI burg, IMM & P7187-7180$ Thome: $SAT-34724/64/65505-797-4874$ Phone: $SAT-34724/64/65505-797-4874$ Phone: $SAT-34724/64/65505-797-4874$ Phone: $SAT-34724/64/65505-7977-4874$ Phone: $SAT-34724/64/65505-7977-4874$ Phone: $SAT-34724/64/65505-7977-4874$ Phone: $SAT-34724/64/65505-7977-4874$ Phone: $SAT-34724/64/64/65505-7977-4874$ Phone: $SAT-3476-71/800$ Phone: $SAT-3400-71/800$ Phone: $SAT-3400-71/800$	Pay For Sample Disposal	ontice	Temperature	10:00	able	& Martill	700 May		DUINK
urchase Order/Chain Of Custody $race_odde Grie, Sate 104, Alen, TX 75002 Phone: 972-777-9003 Fac: 972-777-9003 Ill To: (Buyer) A/h_3^{+}/D.c Aussis Purchase Onlier #: Aussis P.O. Biox 571 800 Aussis Nations: P.O. Biox 571 800 Grie 972-77180 Aussis Orthy, State, Th: All blug, IMM, 817 187-71 180 Inc. Aussis Immore: Suft-74/6 4/6 Fam.Soft-7197-180 Inc. Soft-7177-180 Immore: Suft-74/7-4/6 4/6 Fam.Soft-7177-180 Inc. Soft-7177-180 Immore: Suft-74/7-4/6 4/6 Fam.Soft-7177-180 Inc. Soft-7177-180 Immore: Suft-74/7-4/6 4/6 Fam.Soft-7177-180 Inc. Soft-7177-180 Immore: Suft-74/6 4/6 Fam.Soft-7177-180 Inc. Soft-7178 Immore: Suft-74/6 4/6 Fam.Soft-7177-180 Inc. Soft-7180 Immore: Suft-74/6 4/7 Soft-7180 Inc. Immore: Suft-74/6 4/7 Soft-7180 Soft-7180 $	In the event that Anachem determines that a	Ē	Sample Receipt No	Tipe	Date	11 Ka		<u> </u>	Relanciushed By O
Introduction Order/Chain Of Custody Page of Circle, Safe 104, Allen, TX 75002 Phone: 972-727-9003 Fac: 972-727-9003 Fac: 972-727-9003 Illi To: (Buyer) R/13/1.0 Analysis Phone: 972-727-9003 Fac: 972-727-9003 Fac: 972-727-9003 Purchase Onlier #: Analysis P. D. BOX 57180 Analysis Analysis Autorss: P. D. BOX 57180 T180 Analysis Otry, Stare, 701: All Diug. MM. 877187-71180 Inc. Minne: SMT-7472464 HC FaceSOT - 7972-9871 SO 2000000 Analysis Mone: SMT-7472464 HC FaceSOT - 7972-9871 SO 2000000 SO 20000000 SO 2000000 SO 2000000 SO 20000000 SO 20000000 SO 20000000 SO 20000000 SO 20000000 SO 200000000 SO 2000000000 SO 2000000000000 SO 200000000000000000000 SO 2000000000000000000000000000000000000				;			•).	10
Introduces Order/Chain Of Custody Fac. of Bill To: (Buyer) Rh_1 / R $Ren. TX 75002$ Phone: 972-777-9003 Fac: 972-777-9666 Bill To: (Buyer) Rh_1 / R R R R R R Purchase Onlier #: R R R R R R Number Onlier #: R R R R R R Number Onlier #: R R R R R R Number Onlier #: R R R R R R Number Suf-24/7=4/6 H H R R R R Thome: S R R R R R R Sampled by: Namy Dato/Thme Sample Nores R R R R R_1 R_2 R R R R R R R_1 R_2 R R R R R R R_1 </td <td>-</td> <td></td> <td></td> <td>Έ.t.</td> <td></td> <td></td> <td></td> <td></td> <td>.<u>o</u></td>	-			Έ.t.					. <u>o</u>
Introductor Chain Of Custody Page of Bill To: (Buret) A/h ; 17.002 Phone: 972-7279003 Fai: 972-7279004 Bill To: (Buret) A/h ; 17.002 Phone: 972-7279003 Fai: 972-7279004 Bill To: (Buret) A/h ; 17.002 Phone: 972-7279003 Fai: 972-7279004 Analysis Purchase Order #: 12.002 A/h ; 10.002 A/h A/h $Analysis Autress: 12.002 A/h B/h A/h Analysis Andress: 12.002 A/h B/h A/h Analysis Andress: 12.002 A/h B/h A/h Analysis Analysis A/h B/h B/h A/h Analysis Analysis A/h B/h B/h A/h Analysis Analysis A/h B/h B/h A/h A/h Analysis A/h B/h A/h A/h A/h Analysis A/h A/h A/h A/h A/h Analysis$				(979) 19			****	1. 1. 1.	8.
Introductor Chain Of Custody Page of Bill To: (Buyer) $Ahen, TX 75002$ Phone: 972-727-9003 Fax: 972-727-9686 Bill To: (Buyer) $Ahin, TX 75002$ Phone: 972-727-9003 Fax: 972-727-9686 Bill To: (Buyer) $Ahin, TX 75002$ Phone: 972-727-9003 Fax: 972-727-9686 Purchase Onder #: $Ahing: The TO: Dept Science of the the the the the the the the the the$				т. С			- 14 	1 	7.
The of Clistody Page of Clistody Grode, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9666 Bill To: (Bayer) $Alley To 0$ Purchase Onder #: Address: P. 0. $BOX 57180$ Address: P. 0. $BOX 57180$ Charley Structure Onder #: Address: P. 0. $BOX 57180$ Address: P. 0. $BOX 57180$ OL $YST-7180$ OL $YGY 4/6 Faac SOX - 797-4874$ OL $YGY 4/6 Faac SOX - 797-4874$ OL $YST-7180$ OL $YST-71/80$ OL $YGY 4/6 Faac SOX - 7977-4874$ OL $YGY 4/6 Faac SOX - 7977-4874$ OL $YST-71/80$							- 2 %	28 1490 - 2 17 - 43	6.
Urrchase Order/Chain Of Custody Page of Grobe, Suite 104, Allen, 1X 75002 Phone: 972-727-9003 Fax: 972-727-9686 Bill To: (Buyer) $D/1^1/1.0$ Analysis Purchase Onder 8: $P.0.$ $D/2/7.180$ Analysis Address: $P.0.$ $D/2/7.180$ $D/2/7.180$ $D/2/7.180$ City, State. Th: $A1000000000000000000000000000000000000$					• .	· ·	• •• 1. •-		,
Intrchase Order/Chain Of Custody r_{acc} of Grobe Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686 Bill To: (Buyer) $Ahr) / n.o$ Auslyis Purchase Onder #: $r.o.$ $BOX 57180$ Auslyis Nuclease: $r.o.$ $BOX 57180$ $Auslyis$ Autres: $r.o.$ $BOX 57180$ $Auslyis$ Purchase Onder #: $r.o.$ $BOX 57180$ $Auslyis$ Mone: $Six - 747 - 4/6 4/6 rac 505 - 7477 - 48774$ $OX 500 - 0.5180$ $Auslyis$ Phone: $Six - 7477 - 4/8774$ $OX 500 - 0.505$ $Auslyis$ Y. M Quote #: $Outre #:$ $OUTR - 7477 - 48774$ $OX 500 - 0.505$ Y. M Quote #: $Outre #:$ $OUTR - 7477 - 48774$ $OX 500 - 0.505$ $OX 500 - 0.505$ So 1.1 $7-500 - 0.505$ $OX - 7477 - 48774$ $OX 500 - 0.505$ $OX 500 - 0.505$ So 1.1 $7-500 - 0.505$ $OX X X X$ $OX X X X$ $Auslyis$ So 1.1 $7-500 - 0.505$ $OX X X X X$ $Auslyis$		1430					L.	Cell	┝╼╼┵
Urrchase Order/Chain Of Custody Page of Grobe, Suite 104, Allen, TX 75002 Fhome 972-727-9003 Fac: 972-727-9686 Bill To: (Buyer) Dh_1 ' $D.0$ Analysis Purchase Onder #: $P.0$ $BOX 571180$ Analysis Address: $P.0$ $BOX 571180$ $Analysis Address: P.0 BOX 571180 Dig T 180 Address: P.0 BOX 571180 Dig T 180 Address: P.0 BOX 571180 Dig T 180 Analysis P.0 BOX 571180 Dig T 180 Analysis P.0 Dig X 571180 Dig T 180 Analysis Dig X 5777464 Dig X 57777460 Dig X 57777460 Analysis Dig X 5777464 Dig X 57777467777777400 Dig X 577777467777777777777777777777777777777$		1400		 			Uu	Cell.	
Introduct Internation Of Custody Page of Custody Carde, Suite 104, Allen, TX 75002 Frome: 972-727-9003 Fac: 972-727-9666 Bill To: (Buyer) $Ahlen, TX 75002$ Frome: 972-727-9003 Fac: 972-727-9666 Bill To: (Buyer) $Ahlen, TX 75002$ Frome: 972-727-9003 Fac: 972-727-9666 Purchase Onder #: $Audress: P. 0. Box 57180$ Oriv, State, 70p: Al bug, IMM, 877187-7180 $O, 1180$ $Page All bug, IMM, 877187-7180$ $O, 1180$ $Page All bug, IMM, 877187-7180$ $O, 1180$ Oriv, State: N M Quote # $O, 1180$ $Page All bug, IMM, 877187-7180$ $O, 1180$ $Page All bug, IMM, 877187-7180$ $O, 1180$ Oriv, State: N M Quote # $Page All bug, IMM, 877187-7180$ $O, 1180$ $Page All bug, IMM, 877180$ $O, 1180$ Sampled By: $O, 1180$ $Page All bug, IMM, 877100$ Solution $O, 1180$ $O, 1180$ $O, 1180$ $O, 1180$ $O, 1180$ Solution $Page All bug, IMM, 87100$ $Page All bug, IMM, 87000$ <td< td=""><td></td><td>1330</td><td></td><td></td><td></td><td></td><td>N</td><td>Cell</td><td>······</td></td<>		1330					N	Cell	······
Introduction Internation Internation <td></td> <td>1300</td> <td>0-5-b</td> <td>N.L.</td> <td>6</td> <td></td> <td></td> <td>Cell</td> <td>1</td>		1300	0-5-b	N.L.	6			Cell	1
Urchase Order/Chain Of Custody r_{acc} of Groe, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9666 Bill To: (Buyer) $A/h^3/h.0$ Fax: 972-727-9666 Purchase Onder #: $Allen, TX 75002$ Phone: 972-727-9666 Outros: $P.O.$ $BOX 57180$ Analysis Address: $P.O.$ $BOX 57180$ $Analysis$ Orly, State, Th: $All DUG$ $MMN 877877-7180$ $O.$ Orly, State, Th: $All DUG$ $MMN 877187-7180$ $O.$ $Analysis$ Anone: $SOT-3477-4666$ $Fax.505-7187-7180$ $O.$ $O.$ $Analysis$ Anone: $SOT-3477-4667-7180$ $O.$ $O.$ $O.$ $O.$ $Analysis$ Analysis $P.A.$ $O.$ $O.$ $O.$ $O.$ $Analysis$ Analysis $O.$ $O.$ $O.$ $O.$ $O.$ $Analysis$ Analysis $O.$ $O.$ $O.$ $O.$ $O.$ $O.$ $O.$ Analysis $O.$ $O.$ $O.$ $O.$ $O.$ $O.$ $O.$ <	TCA A A	Sample Notes	Date/Time	Ŧ	N'a			lient Sample ID	* -
urchase Order/Chain Of Custody r_{acc} of Girde, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fac: 972-727-9686 Bill To: (Buyer) $Ah_3^{+}/A0$ Analysis Purchase Order #: $Analysis$ Analysis Address: $P.O.$ $BOX 57180$ $Analysis$ Address: $P.O.$ $BOX 57180$ $O.$ City, State, Zip: $A11040$ $B17187-7180$ $O.$ Phone: $SQT-2477-4666$ $SOT-797-4807$ $O.$ Phone: $SQT-2477-4666$ $SOT-7977-4807$ $O.$ Phone: $SQT-2477-46666$ $SOT-7977-4807$ $O.$ $O.$ Phone: $SQT-2477-46666$ $SOT-7977-4807$ SOC $O.$ Phone: $SQT-2477-46666$ $SOT-7977-4877$ SOC $O.$ Phone: $SQT-2477-46666$ $SOT-7977-4877$ SOC SOC SOC Phone: $SQT-2477-466666$ SOC SOC SOC SOC SOC Phone: $SQT-2477-4666666666666666666666666666666666$				₩°;	l By:		25%	Rush:	R
Purchase Order/Chain Of Custody r_{age} of Girde, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686 Bill To: (Buyer) $Ah_1' \cap O$ Analysis Purchase Onder #: $O = O = O = O = O = O = O = O = O = O =$: >- ⊖+ -	h m	City, State:		K	7
Purchase Order/Chain Of Custody rage of Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fai: 972-727-9686 Bill To: (Buyer) $A/h_1^{-1} \cap O$ Phone: 972-727-9003 Fai: 972-727-9686 Purchase Onder #: Analysis Phone: 507-7180 Analysis Address: P. O. BOX 57180 O. H. H. City, State, 70: All Dug, MMA 817187-7180 O. H. H. Phone: SUT-247-4/6 4/6 Fair SOT - 797-4874 S. O. H. S. O. H.	n/ 1 \$		Quote #:		;	farm	hand	2-Yea	
Urchase Order/Chain Of Custody Page of Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686 Bill To: (Buyer) A/h ¹ /0.0 Analysis Purchase Onder #: Analysis Analysis Orly, State, Zip: A1 burg, INM 8/7187-7180 0, 11 ±	80 CG	197-4874	6 FacSOT -	<u>6 9h= 1</u>	5-247	0563 Phone: Su	505-882	OULGEN	140000505-882
Urchase Order/Chain Of Custody Circle, Suite 104, Allen, TX 75002 Bill To:	20 ti etc)-7180	8178 m	Jug. 1	Zin: Alt	City, State,	1088 W	hong "	City, State, ZID: Ant
Purchase Order/Chain Of Custody Carde, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9684 Bill To: (Buyer) Ah1 0.0 Fax: 972-727-9684	<u>on</u> 215		0817	20X 3	P. O. 6			ch xoe	Address: P.O. f
Purchase Order/Chain Of Custody Anachem, Inc. 8 Pressige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fas: 972-727-968			4 	17.CU2	nder#:	} →	Serv.	EAVIN	company: A hind
Purchase Order/Chain Of Custody 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686	Analysis			500	. "		erande	ele B	Ż
Ý	Fax: 972-727-9686	127-9003		n, TX 75	104, Alle	estige Circle, Suite		Anachem	
	Pageof	ody	n Of Cust	r/Chai	Ordei	Purchase			

<u>09/22/00</u> 17:01 FAX

-

Ø 010

· · · -

09/22/00 16:58 FAX

æ

Anachem, Inc.

CLIENT:	Rhino Env. Services-	Anthony		Client Sample ID:		
Work Order:	0009080			Location:	Lea Co., NM	
Project:	Goo-Yea Landfarm			Collection Date:	9/5/00	
Lab ID:	0009080-04A	·····		Matrix:	SOIL.	
Analyses		Result	Limit	Units	Dat	e Analyzed
BTEX BY EPA	1021 - SOLID			Prep Dat	e:	Analyst: AT
BatchID: R7224		ND	0,4	Ma		0/0/00
Berizene Toluene		ND		mg/Kg		9/8/00
Ethylbenzene		ND	0.5 0.5	mg/Kg mg/Kg		9/8/00
		ND	0.5 0.5	• •		9/8/00
Xylenes, Total		. –	0.5	mg/Kg	-	9/8/00
BatchID: R7356	BY COLD VAPOR (EPA	(470)		Prep Dat	6,	Analyst: BMC
Mercury		ND	0.02	mg/Kg		9/12/00
•	OGRAPH SOLID (EPA :		0.62	Prep Dat	·••	Analyst: SD
BatchiD: R7390	Ganarn Soeid (GPA)			riep Uat	φ .	
Broinide		0.157	0.01	mg/Kg		9/20/00
Chloride		18.6	0.01	mg/Kg		9/20/00
Fluoride		0.907	0.01	mg/Kg		9/20/00
Nitrogen, Nitrate	(As N)	0.087	0.015	mg/Kg		9/20/00
Nitrogen, Nitrite	(As N)	ND	0.01	mg/Kg		9/20/00
Phosphate		ND	0.01	mg/Kg		9/20/00
Sulfate		27.3	0.2	mg/Kg		9/20/00
ICP METALS (E	PA 6010)			Prep Dat	9/8/00 3:23:11 P	Analyst: BMC
BatchID: 1897	-			•		-
Arsenic		ND	1	mg/Kg		9/8/00
Barium		309	0.12	mg/Kg		9/8/00
Cadmium		ND	0.12	mg/Kg		9/8/00
Cakium		1680	1	m g/K g		9/B/00
Chromium		3.93	0.12	m g/K g		9/8/00
Lead		1.61	1.5	mg/Kg		9/8/00
Magnesium		127	1	mg/Kg		9/8/00
Potassium		33.4	1	mg/Kg		9/8/00
Selenium		ND	2			9/8/00
Silver		ND	1	mg/Kg		9/8/00
Sod um		8.62	1	mg/Kg		9/8/00
TPH BY EPA 4				Prep Dat	te: 9/12/00	Analyst: AT
BatchID: R7256						
Petroleum Hydr	ccarbons, TR	ND	10	mg/Kg		9/12/00

Qualifiers: ND - Not Detected at the Reporting Limit

Page 6 Of 8

Anachem, Inc.

09/22/00 16:59 FAX

· 2

i

Date: 22-Sep-00

CLIENT:	Rhino Env. Servi	ces- Anthon	у			QC SU	MMAF	Y REPOR
Work Order:	0009080					*		
Project:	Goo-Yea Landfa	m						
CP Metels (EPA 60)10)						•	
Batch/D: 1897	Units:	mg/Kg			A	nalysis Date:	9/8/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Arsenic		200	100.8%	99.3%	75%	125%	1.7%	15
larium		200	97.5%	86.0%	75%	125%	5.6%	15
admium		200	92.6%	94.6%	75%	125%	2.1%	15
Chromium		200	87.9%	89.9%	75%	125%	2.2%	15
ead		200	90.8%	91.3%	75%	125%	0.6%	15
Selenium		200	91.5%	93.5%	75%	125%	2.2%	15
311ver		200	101.0%	104.0%	75%	125%	3.0%	15
CP Metals (EPA 6	010)							
BatchID: 1897	Units:	mg/Kg			A	nalysis Date:	9/8/00	
inalyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLImit
vrsenic		200	92.5%	93.5%	75%	125%	1.1%	15
Iarium 🖌		200	132.0%	161.0%	75%	125%	9.6%	15
admium		200	90.6%	90.1%	75%	125%	0.6%	15
Shromium		200	88.0%	88.0%	75%	125%	0.0%	15
.ead		200	88.7%	88.7%	75%	125%	0.0%	15
Selenium		200	96.4%	98.9%	75%	125%	2.7%	15
Bilver		200	96.9%	95.9%	75%	125%	1.0%	15
Mercury/Hg by Co	ld Vapor (EPA 7470)						·••
BatchID: R7356	Units:	mg/Kg			۵	nalysis Date	9/12/00	
Analyte	••	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Mercury		0.5	85.0%	89.0%	75%	125%	4.5%	15
Mercury/Hg by Co	ld Vapor (EPA 7470)						
ElatchID: R7356	Units:	mg/Kg			A	nalysis Date	; 9/12/00	
nalyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Mercury		0.5	78.0%	88.6%	75%	125%	12.7%	15
on Chromatograp	h Solid (EPA 300.0)						
ElatchID: R7390	Units:	mg/Kg			A	Analysis Date	9/20/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLImit
Eromide		0.5955	105.0%	105.1%	80%	120%	0.2%	15
Chloride		2.49	103.9%	103.5%	80%	120%	0.2%	15
Fluoride		1.82	107.1%	107.0%	80%	120%	0.2%	15
Nitrogen, Nitrate (A	s N}	8.759	101.3%	100.7%	80%	120%	0.6%	15
Nitrogen, Nitrite (As	s N)	0.1046	96 .6%	91,8%	80%	120%	0.0%	15
Fhosphate		13.44	103.1%	103.1%	80%	120%	0.1%	15
Sulfate		13.45	109.4%	109.6%	80%	120%	0.0%	15

* Spiked QC sample very high in barium. Barium check standards yield 104.2% and 108.7% recoveries.

Page 7_ Of 8_____

I.

ļ.

Anachem, Inc.

Date: 22-Sep-00

Work Order: 0009		ces- Anthon	у			QC SI	UMMAF	AY REPORT
BTEX by EPA 8021 - Solle	3		<u></u>					
I3atchID: R7224 Analyte	Units:	mg/Kg SPK value	REC 1	REC 2	A LowLimit	nalysis Dat HighLimit	e: 9/8/00 %RPD	RPDLimit
Benzene		100	101.0%	104.0%	70%	130%	2.9%	30
Toluene		100	103.0%	105.0%	70%	130%	1.9%	30
Ethylbenzene		100	101.0%	104.0%	70%	130%	2.9%	30
Xylenes, Total		300	101.0%	103.7%	70%	130%	2.6%	30
TPH by EPA 418.1 - Solid								
BatchID: R7256	Units:	m g/K g			A	nelysis Dat	e: 9/12/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Petroleum Hydrocarbons,	TR	43.2	75.0%	75.9%	60%	140%	1.2%	30

Page	_ Of	8

. .

2



P.O. Box 25547 • Albuquerque, New Mexico 87125 Phone (505) 247-4646 • Fax (505) 797-4874 August 30, 2000

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 2000

Dear Ms. Kieling:

This report seeks to fulfill quarterly monitoring requirements for both May and August and 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 during these quarters, 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, 2000. Please call me if you have any questions or require additional information.

Sincere Daniele Berardell

Rhino Environmental Services, Inc.

Attachments

CC: Ms. Donna Williams OCD, District - 1 1625 North French Drive Hobbs, New Mexico 88240

. . . .

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.



x x x	x	
	1	

X denotes sample collection location

Not to Scale



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.

Sample	BTEX	TPH	RCRA Total	Metals	General Ch	emistry	pН
ID	mg/kg	mg/kg	mg/kg		mg/kg		
Cell 1	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	110	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	4.6 208 ND 2430 4.92 3.49 86.1 49.2 ND ND 2.89	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 5.82 9.4 1.51 0.409 ND 51.9	
Cell 2	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	120	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	3.48 213 ND 3810 4.84 2.32 113 51.3 ND ND 3.81	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 2.93 9.52 0.99 0.41 ND 46.3	
Cell 3	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	70	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	4.528 209 0.2 4800 4.64 4.16 135 61.4 ND ND 3.76	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 6.53 6.34 2.36 0.784 ND 46.9	
Cell 4	< 0.40 Benzene < 0.50 Toluene < 0.50 Ethyl Benzene < 0.50 Xylenes	180	Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium	2.52 73.8 ND 709 4.84 3.84 47.7 43.8 ND ND 1.13	Mercury Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	ND ND 2.2 2.52 2.13 0.711 ND 13.9	



RHINO ENVIRONMENTAL SERVICES, INC.

Samples collected for all cells demonstrate TPH concentrations above 100 ppm. The fact that TPH levels were close in concentration, and that this occurred in all three of Rhino's landfarms (two OCD and one NMED approved) prompted Rhino to conduct an investigation. It was determined that the piece of heavy equipment used to collect soil samples was contaminated. The equipment had been used on a job site excavating contaminated soil. The equipment was supposed to have been decontaminated prior to its removal from the project location, however, a miscommunication between the employee who had the responsibility of decontamination and the operator moving the equipment resulted in the equipments removal prior to decontamination.

Rhino's plan of action has been to collect new samples from the same approximate area and submit the soil for TPH analysis. The soil removed during the first sampling event has been spread in the cell it was removed from. The new results will be available within the week and will be sent to your office for review. The equipment has been decontaminated and the employees have been retrained concerning decontamination and equipment inspection procedures.

In the event that our efforts are insufficient, please contact me immediately so that we may correct the situation to your satisfaction.



RHINO ENVIRONMENTAL SERVICES, INC.

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 18, 2000

Daniele Berardelli Rhino Env. Services- Anthony P.O. Box 4232

Anthony, NM 88021 TEL: 505-882-0449 FAX: 505-882-0563

Work Order: 0008055 Project: Goo-Yea Landfarm

Dear Client:

Anachem, Inc. received 4 samples on 08/04/2000 for the analyses presented in the following report.

The samples were analyzed for the following tests:

BTEX by EPA 8021 - Solid ICP Metals (EPA 6010). Arsenic Barium Cadmium Calcium Chromium Lead Magnesium Potassium Selenium Silver Sodium Ion Chromatograph Solid (EPA 300.0) Mercury Digestion (EPA 7470) Mercury/Hg by Cold Vapor (EPA 7470) Microwave Digestion (EPA 3051) Solid TPH by EPA 418.1 - Solid

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.

0008055-01A To 0008055-04A

Page ____ Of ___



ANACHEM INC.

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

August 18, 2000

Daniele Berardelli Rhino Env. Services- Anthony Work Order: 0008055

Project: Goo-Yea Landfarm

Respectfully Submitted, Anachem, Inc.

C E Mant

C.E. Newton, Ph.D. Chemist

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.

0008055-01A To 0008055-04A

Page <u>2</u> Of <u>9</u>

Anachem, II	nc.		Date: 18-Aug-00					
CLIENT:	Rhino Env. Services-	Anthony						
Work Order:	0008055	2						
	Goo-Yea Landfarm							
Project:	Goo- i ea Lanutarin					·····		
Analyses		Result	Limit	Units		Dat	e Analyzed	
Lab ID:	0008055-01A							
Client Sample II	Cell 1		Collection	n Date:	8/2/00			
Location:	Lea Co., NM		Matrix:		SOIL			
0008055-01A	BTEX BY EPA 802			Bro	p Date:		Analyst: AT	
BatchID: R6757	DIEN DI EFA 002			Fre	h nare:		Analyst: At	
Benzene		ND	0.4	mg/Kg			8/4/00	
Toluene		ND	0.5	mg/Kg			8/4/00	
Ethylbenzene		ND	0.5	mg/Kg			8/4/00	
Xylenes, Total	i.	ND	0.5	mg/Kg			8/4/00	
0008055-01A	MERCURY/HG BY				p Date:		Analyst: BMC	
BatchID: R6833		COLD VAPOR	(CFA 1410)	- rie	P Date:		miaryst: Divio	
Mercury		ND	0.02	mg/Kg			8/9/00	
0008055-01A	ION CHROMATOO				p Date:		Analyst: SD	
BatchID: 6896			(1. 7 000.0)		p Dutoi			
Bromide		ND	0.01	mg/Kg			8/14/00	
Chloride		5.82	0.01	mg/Kg			8/14/00	
Fluoride		9.4	0.01	mg/Kg			8/14/00	
Nitrogen, Nitrate	(As N)	1.51	0.015	mg/Kg			8/14/00	
Nitrogen, Nitrite (J		0.409	0.01	mg/Kg			8/14/00	
Phosphate		ND	0.01	mg/Kg			8/14/00	
Sulfate		51.9	0.2	mg/Kg			8/14/00	
0008055-01A	ICP METALS (EP)	A 6010)		Pre	p Date:	8/7/00 2:36:08 P	Analyst: BMC	
BatchID: 6950	``````````````````````````````````````	·			•		-	
Arsenic	X.	4.6	1	mg/Kg			8/8/00	
Barium		208	0.12	mg/Kg			8/8/00	
Cadmium		ND	0.12	mg/Kg			8/8/00	
Calcium		2430	1	mg/Kg			8/8/00	
Chromium		4.92	0.12	mg/Kg			8/8/00	
Lead		3.49	1.5	mg/Kg			8/8/00	
Magnesium		86.1	1	mg/Kg			8/8/00	
Potassium		49.2	1	mg/Kg			8/8/00	
Selenium		ND	· 2	mg/Kg			8/8/00	
Silver		ND	1	mg/Kg			8/8/00	
Sodium		2.89	· 1	mg/Kg			8/8/00	
0008055-01A	TPH BY EPA 418.	1 - SOLID		Pre	ep Date:	8/8/00	Analyst: AT	
BatchID: R6791								
Petroleum Hydro	carbons, TR	110	- 10	mg/Kg			8/8/00	
Lab ID:	0008055-02A							
Client Sample I			Collectio	- Data	8/2/00			

Qualifiers: ND - Not Detected at the Reporting Limit

5

ń

ļ,

B - Analyte detected in the associated Method Blank

Page <u>3</u> Of <u>9</u>

ł

Date: 18-Aug-00

	Rhino Env. Services-	Anthony				
Work Order:	0008055					
Project: (Goo-Yea Landfarm					
Analyses		Result	Limit	Units		Date Analyzed
Location:	Lea Co., NM		Matrix:		SOIL	
0008055-02A	BTEX BY EPA 8021	- SOLID		Prep	Date:	Analyst: AT
BatchID: R6757						
Benzene		ND	0.4	mg/Kg		8/4/00
Toluene		ND	0.5	mg/Kg		8/4/00
Ethylbenzene		ND	0.5	mg/Kg		8/4/00
Xylenes, Total		ND	0.5	mg/Kg		8/4/00
0008055-02A	MERCURY/HG BY	COLD VAPOF	R (EPA 7470)	Pre	o Date:	Analyst: BMC
BatchID: R6833						
Mercury		ND	0.02	mg/Kg		8/9/00
0008055-02A	ION CHROMATOG	RAPH SOLID	(EPA 300.0)	Pre	o Date:	Analyst: SD
BatchID: 6896						
Bromide		ND	0.01	ˈmg/Kg		8/14/00
Chloride		2.93	0.01	mg/Kg		8/14/00
Fluoride		9.52	0.01	mg/Kg		8/14/00
Nitrogen, Nitrate (A	s N)	0.99	0.015	mg/Kg		8/14/00
Nitrogen, Nitrite (As	s N)	0.41	0.01	mg/Kg		8/14/00
Phosphate		ND	0.01	mg/Kg		8/14/00
Sulfate		46.3	0.2	mg/Kg		8/14/00
0008055-02A	ICP METALS (EPA	6010)		Pre	p Date: 8/7/00 2:	36:08 P Analyst: BMC
BatchID: 6950						
Arsenic		3.48	1	mg/Kg		8/8/00
Barium		213	0.12	mg/Kg		8/8/00
Cadmium		ND	0.12	mg/Kg		8/8/00
Calcium	Υ.	3810	1	mg/Kg		8/8/00
Chromium		4.84	0.12	mg/Kg		8/8/00
Lead		2.32	1.5	mg/Kg		8/8/00
Magnesium		113	1	mg/Kg		8/8/00
Potassium		51.3	1	mg/Kg		8/8/00
Selenium		ND	2	mg/Kg		8/8/00
Silver		ND	1	mg/Kg		8/8/00
Sodium		3.81	1	mg/Kg		8/8/00
0008055-02A	TPH BY EPA 418.1	- SOLID		Pre	p Date: 8/8/00	Analyst: AT
BatchID: R6791						-
Petroleum Hydroca	arbons, TR	120	10	mg/Kg		8/8/00
Lab ID:	0008055-03A					
Client Sample ID			Collectio	n Date:	8/2/00	
Location:	Lea Co., NM		Matrix:		SOIL	
0008055-03A BatchID: R6757	BTEX BY EPA 802	1 - SOLID	·	Pre	p Date:	Analyst: AT

Qualifiers: ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page _____ Of _____

•

1

Work Order: 0008055

Project: Goo-Yea Landfarm

Analyses		Result	Limit	Units		Date Analyzed
Benzene		ND	0.4	mg/Kg		8/4/00
Toluene		ND	0.5	mg/Kg		8/4/00
Ethylbenzene		ND	0.5	mg/Kg		8/4/00
Xylenes, Total		ND	0.5	mg/Kg		8/4/00
0008055-03A	MERCURY/HG BY	COLD VAPOR	R (EPA 7470)	Prep	Date:	Analyst: BMC
BatchID: R6833						-
Mercury		ND	0.02	mg/Kg		8/9/00
0008055-03A	ION CHROMATOG	RAPH SOLID	(EPA 300.0)	Prep	Date:	Analyst: SD
BatchID: 6896						
Bromide		ND	0.01	mg/Kg		8/14/00
Chloride		6.53	0.01	mg/Kg		8/14/00
Fluoride		6.34	0.01	mg/Kg		8/14/00
Nitrogen, Nitrate (As	N)	2.36	0.015	mg/Kg		8/14/00
Nitrogen, Nitrite (As I	N)	0.784	0.01	mg/Kg		8/14/00
Phosphate		ND	0.01	mg/Kg		8/14/00
Sulfate		46.9	0.2	mg/Kg		8/14/00
0008055-03A	ICP METALS (EPA	6010)		Pre	Date: 8/7/00 2:3	6:08 P Analyst: BMC
BatchID: 6950						
Arsenic		4.52	1	mg/Kg		8/8/00
Barium		209	0.12	mg/Kg		8/8/00
Cadmium		0.2	0.12	mg/Kg		8/8/00
Calcium		4800	1	⁻ mg/Kg		8/8/00
Chromium		4.64	0.12	mg/Kg		8/8/00
Lead		4.16	1.5	mg/Kg		8/8/00
Magnesium	`\	135	1	mg/Kg		8/8/00
Potassium		61.4	1	mg/Kg		8/8/00
Selenium		ND	2	mg/Kg		8/8/00
Silver		ND	1	mg/Kg		8/8/00
Sodium		3.76	1	mg/Kg		8/8/00
0008055-03A	TPH BY EPA 418.	1 - SOLID		Pre	p Date: 8/8/00	Analyst: AT
BatchID: R6791						
Petroleum Hydrocart	bons, TR	70	10	mg/Kg		8/8/00
Lab ID:	0008055-04A					
Client Sample ID:	Cell 4		Collectio	on Date:	8/2/00	
Location:	Lea Co., NM		Matrix:		SOIL	
0008055-04A BatchID: R6757	BTEX BY EPA 802	21 - SOLID		Pre	p Date:	Analyst: AT
Benzene		ND	0.4	mg/Kg		8/4/00
Toluene		ND	0.5	mg/Kg		8/4/00
Ethylbenzene		ND	0.5	mg/Kg		8/4/00
Vulanaa Tatal		ND	0.5	malla		P/4/00

ND - Not Detected at the Reporting Limit Qualifiers:

Xylenes, Total

B - Analyte detected in the associated Method Blank

ND

0.5

mg/Kg

Page <u>5</u> Of <u>9</u>

8/4/00

÷

Date: 18-Aug-00

CLIENT:	Rhino Env. Services-	Anthony			
Work Order:	0008055				
Project:	Goo-Yea Landfarm			~	
Analyses		Result	Limit	Units	Date Analyzed
0008055-04A	MERCURY/HG BY	COLD VAPOR	R (EPA 7470)	Prep Date:	Analyst: BMC
BatchID: R6833					
Mercury		ND	0.02	mg/Kg	8/9/00
0008055-04A	ION CHROMATOG	RAPH SOLID	(EPA 300.0)	Prep Date:	Analyst: SD
BatchID: 6896					
Bromide		ND	0.01	mg/Kg	8/14/00
Chloride		2.2	0.01	mg/Kg	8/14/00
Fluoride		2.52	0.01	mg/Kg	8/14/00
Nitrogen, Nitrate	(As N)	2.13	0.015	mg/Kg	8/14/00
Nitrogen, Nitrite ((As N)	0.711	0.01	mg/Kg	8/14/00
Phosphate		ND	0.01	mg/Kg	8/14/00
Sulfate		13.9	0.2	mg/Kg	8/14/00
0008055-04A	ICP METALS (EPA	6010)		Prep Date:	8/7/00 2:36:08 P Analyst: BMC
BatchID: 6950				•	
Arsenic		2.52	1	mg/Kg	8/8/00
Barium		73.8	0.12	mg/Kg	8/8/00
Cadmium		ND	0.12	mg/Kg	8/8/00
Calcium		709	1	mg/Kg	8/8/00
Chromium		4.84	0.12	mg/Kg	8/8/00
Lead		3.84	1.5	mg/Kg	8/8/00
Magnesium		47.7	1	mg/Kg	8/8/00
Potassium		43.8	1	mg/Kg	8/8/00
Selenium		ND	2	mg/Kg	8/8/00
Silver		ND	1	mg/Kg	8/8/00
Sodium	`\	1.13	1	mg/Kg	8/8/00
0008055-04A	TPH BY EPA 418.1	- SOLID		Prep Date:	8/8/00 Analyst: AT
BatchID: R6791					
Petroleum Hydro	ocarbons, TR	180	10	mg/Kg	8/8/00

Qualifiers:

ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Anachem, Inc.					Date: 18-Aug-00			
CLIENT: Work Order:	Rhino Env. Servi 0008055			QC SI	UMMAI	RY REPORT		
Project:	Goo-Yea Landfa	rm						
TPH by EPA 418.	I - Solid							
BatchID: R6791	Units:	mg/Kg			۵	nalysis Dat	e: 8/8/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Petroleum Hydroc	arbons, TR		142	140		- 1 ⁹ ·	1.4%	<u> </u>

٩

!

Date: 18-Aug-00

Anachem, Inc.

٩,

:

=

CLIENT:	Rhino Env. Services- Anthony	OC SUMMARY REPORT
Work Order:	0008055	-
Project:	Goo-Yea Landfarm	

Ion Chromatograph Solid (EPA 300.0)

BatchID: 6896	Units: mg/Kg			A	nalysis Dat	e: 8/14/00	
Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Bromide	0.856	103.9%	117.8%	80%	120%	7.8%	15
Chloride	1.199	100.1%	101.8%	80%	120%	0.0%	15
Fluoride	0.862	91.6%	107.5%	80%	120%	11.2%	15
Nitrogen, Nitrate (As N)	5	88.9%	102.6%	80%	120%	14.3%	15
Nitrogen, Nitrite (As N)	0.6	85.2%	94.2%	80%	120%	10.0%	15
Phosphate	6.525	98.3%	114.0%	80%	120%	14.8%	15
Sulfate	6.525	98.5%	113.5%	80%	120%	12.7%	15

ICP Metals (EPA 6010)

BatchID: 6950	Units: mg/Kg			A	nalysis Dat	e: 8/8/00	
Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Arsenic	200	94.2%	97.2%	75%	125%	3.1%	15
Barium	200	81.6%	89.1%	75%	125%	6.1%	15
Cadmium	200	90.5%	95.0%	75%	125%	4.9%	15
Chromium	200	89.6%	94.6%	75%	125%	5.3%	15
Lead	200	90.1%	92.1%	75%	125%	2.2%	15
Selenium	200	96.5%	98.0%	75%	125%	1.5%	15
Silver	200	96.3%	100.8%	75%	125%	4.6%	15

ICP Metals (EPA 6010)

BatchID: 6950	Units:	mg/Kg			А	nalysis Date	e: 8/8/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Arsenic		200	99.0%	100.0%	75%	125%	1.0%	15
Barium		200	90.0%	93.5%	75%	125%	3.1%	15
Cadmium		200	94.5%	94.5%	75%	125%	0.0%	15
Chromium		200	96.1%	95.6%	75%	125%	0.5%	15
Lead		200	96.7%	97.2%	75%	125%	0.5%	15
Selenium		200	99.5%	100.0%	75%	125%	0.5%	15
Silver		200	99.4%	98.9%	75%	125%	0.5%	15
Mercury/Hg by Cold Vap	oor (EPA 7470))						
BatchID: R6833	Units:	mg/Kg			A	alysis Dat	e: 8/9/00	
Analyte		SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Mercury		0.5	88.8%	93.2%	75%	125%	4.8%	15

İ

Date: 18-Aug-00

Anachem, Inc.

**

•

CLIENT:	Rhino Env. Services- Anthony
Work Order:	0008055
Project:	Goo-Yea Landfarm

QC SUMMARY REPORT

ICP Metals (EPA 6010)

BatchID: 6950	Units: mg/Kg			. 4	alysis Dat	e: 8/8/00	
Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Calcium	72	96.5%	95.4%	75%	125%	1.2%	15
Magnesium	48	98.3%	97.3%	75%	125%	1.1%	15
Potassium	12	100.0%	99.2%	75%	125%	0.8%	15
Sodium	12	114.2%	111.7%	75%	125%	2.2%	15
BTEX by EPA 8021 - Solid							

BatchID: R6757	Units: mg/Kg			A	nalysis Dat	e: 8/4/00	
Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	100	96.4%	94.5%	60%	140%	2.0%	30
Toluene	100	90.5%	89.7%	60%	140%	0.9%	30
Ethylbenzene	100	92.8%	91.8%	60%	140%	1.1%	30
Xylenes, Totai	300	98.0%	97.0%	60%	140%	1.0%	30

Page <u>9</u> Of <u>9</u>

Purchase Order/Chain Of Custody	nain Of Cus	tody	Pageof
Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002		Phone: 972-727-9003	Fax: 972-727-9686
Report To: Mantele Benaralelli BIII To: (Buyer) Ahino	00		Analysis
Company: Rhindeny, Services Inc. Purchase Order #:			
Address: P.O. BOK 4232 ' Address: P.O. BOK 25547	2547		57
City, State, Zip: Anthony NM 88021 City, State, Zip: Albuguergue NM 87125	reregue nr	20178 n	ν+ 57] Ω1] 0 ['8
n		Fax: 505-797-4874	-w. -v. -e(
≫	Ō		8 D/ D&
= lea Co.			Ч Na X H
Rush: 0% 25% 50% 100%			010 MIC 1010 1010 1010 1010
Client Sa	Date/Time	Sample Notes	9. H J
0008055-01 1. Cell 1 Soi	00-2-8	0600	XXXX
-22 2. Cell 2		0630	
m		000/	X X X X X X X
24 4. Coll 4	(1030	X X X X X
5.	0		
6.			
7.			
8			
9.			
10. 0			
Relinquished by Date Time Received By Date Time	e Sample Receipt Notes	Notes	In the event that Anachem determines that a
all the Bloo 1600 Kind Thomas 8 400 9.	Q. 30 Temperature	on ive	sample is nazaroous, the cheffet agrees to: Pay For Sample Disposal
	Preserved Properiy	rty	
	COC Seals Intact	t	X
	Method of Shipment	ment Fed-Ex	
			Submission # 000 8055
010 REV 5/97		1	

i

1

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

.

I

_

/

:



P.O. Box 25547 • Albuquerque, New Mexico 87125 Phone (505) 247-4646 • Fax (505) 797-4874 February 17, 2000

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 2000

Dear Ms. Kieling:

This report seeks to fulfill quarterly monitoring requirements for both November and February.

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 these past two quarters, 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, 2000. 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 1625 North French Drive Hobbs, New Mexico 88240 RECEIVED

MAR 0 2 2000

Environmental Bureau Oil Conservation Division

0, 24

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 I	Native Soil San	ipling		
Sample ID	BTEX mg/kg	TPH mg/kg	RCRA Total Metals mg/kg	General Chemistry mg/kg	рН
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.



S

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

X denotes sample collection location

Not to Scale



RHINO ENVIRONMENTAL SERVICES, INC.

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

January 26, 2000

Daniele Berardelli Rhino Env. Services- Anthony P.O. Box 4232

Anthony, NM 88021 TEL: 505-882-0449 FAX: 505-882-0563

Work Order: 0001302 Project: GooYea 0299

Dear Client:

Anachem, Inc. received 8 samples on 01/22/2000 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.

0001302-01A To 0001302-08A

Page _____ Of ____



ANACHEM INC.

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

January 26, 2000

Daniele Berardelli Rhino Env. Services- Anthony P.O. Box 4232

Anthony, NM 88021 TEL: 505-882-0449 FAX: 505-882-0563

Work Order: 0001302 Project: GooYea 0299

Dear Client:

Anachem, Inc. received 8 samples on 01/22/2000 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 qualities of apparently identical or similar materials.

0001302-01A To 0001302-08A

Page / Of 4



Date: 26-Jan-00

	hino Env. Services- Anthony						
Vork Order: 00	001302						
Project: G	ooYea 0299						
Analyses	Resul	t Lim	it	Units			Date Analyzed
Lab ID:	0001302-01A					······································	
Client Sample ID:	Cell 1	Co	llection	Date:	1/21/00		
Location:	GooYea, Lea Co., NM		atrix:		SOIL		
0001302-01A	TPH BY EPA 418.1 - SOLID			Pi	rep Date	1/26/00	Analyst: AT
Petroleum Hydrocarb	oons, TR NI	0 1	0	mg/Kg	ŗ		1/26/00
Lab ID:	0001302-02A						
Client Sample ID:	Cell 1-A	Co	llection	Date:	1/21/00		
Location:	GooYea, Lea Co., NM	M	atrix:		SOIL		
0001302-02A	BTEX BY EPA 8021 - SOLID)		P	rep Date		Analyst: AT
Benzene	N		.4	mg/Kg			1/23/00
Toluene	N		.5	mg/Kg			1/23/00
Ethylbenzene	NI		.5	mg/Kg			1/23/00 1/23/00
Xylenes, Total	NI		.5	mg/Kg			1/23/00
Lab ID:	0001302-03A						
Client Sample ID:	Cell 2		ollection	n Date:	1/21/00		
Location:	GooYea, Lea Co., NM	M	atrix:		SOIL	<u></u>	
0001302-03A	TPH BY EPA 418.1 - SOLID		10		rep Date	1/26/00	Analyst: AT 1/26/00
Petroleum Hydrocarl				mg/Kg			
Lab ID:	0001302-04A						
Client Sample ID:	Cell 2-A	C	ollection	n Date:	1/21/00		
Location:	GooYea, Lea Co., NM	Μ	atrix:		SOIL		
0001302-04A	BTEX BY EPA 8021 - SOLIE				rep Date		Analyst: AT
Benzene	N).4	mg/Kg			1/23/00
Toluene	N).5	mg/Kg			1/23/00
Ethylbenzene Xylenes, Total	N).5).5	mg/Kg mg/Kg			1/23/00 1/23/00
	IN						
Lab ID:	0001302-05A			_			
Client Sample ID:	Cell 3		ollectio	n Date:	1/21/00		
Location:	GooYea, Lea Co., NM	M	latrix:		SOIL		
0001302-05A	TPH BY EPA 418.1 - SOLID				rep Date	1/26/00	Analyst: AT
Petroleum Hydrocar	bons, TR N	D	10	mg/Kg			1/26/00

Qualifiers: ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page ____ Of ____

CLIENT: R	hino Env. Services- A	nthony				
Work Order: 00	001302					
Project: G	00Yea 0299					
Analyses		Result	Limit	Units		Date Analyzed
Lab ID:	0001302-06A	<u></u>				
Client Sample ID:	Cell 3-A		Collection	n Date:	1/21/00	
Location:	GooYea, Lea Co., N	M	Matrix:		SOIL	
0001302-06A	BTEX BY EPA 8021	- SOLID	· · · · · · · · · · · · · · · · · · ·	P	rep Date	Analyst: AT
Benzene		ND	0.4	mg/Kg		1/23/00
Toluene		ND	0.5	mg/Kg		1/23/00
Ethylbenzene		ND	0.5	mg/Kg		1/23/00
Xylenes, Total		ND	0.5	mg/Kg		1/23/00
Lab ID:	0001302-07A					······································
Client Sample ID:	Cell 4		Collection	n Date:	1/21/00	
Location:	GooYea, Lea Co., N	M	Matrix:	-	SOIL	
0001302-07A	TPH BY EPA 418.1 -				rep Date 1/26/00	,,
Petroleum Hydrocarl	oons, TR	ND	10	mg/Kg		1/26/00
Lab ID:	0001302-08A	<u></u>				
Client Sample ID:	Cell 4-A		Collectio	n Date:	1/21/00	
Location:	GooYea, Lea Co., N	M	Matrix:		SOIL	
0001302-08A	BTEX BY EPA 8021			P	rep Date	Analyst: AT
Benzene		ND	0.4	mg/Kg		1/23/00
Toluene		ND	0.5	mg/Kg		1/23/00
Ethylbenzene		ND	0.5	mg/Kg		1/23/00
Xylenes, Total		ND	0.5	mg/Kg		1/23/00

Qualifiers:

ND - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

Page _____ Of _____



Date: 26-Jan-00

CLIENT:	Rhino Env. Services- Anthony
Work Order:	0001302
Project:	GooYea 0299

QC SUMMARY REPORT

BTEX by EPA 8021 - Solid			Units:	mg/Kg	Analys	is Date: 1/23/	00
Analyte	SPK value	REC 1	REC 2	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	100	90.2%	94.4%	60%	140%	4.6%	30
Ethylbenzene	100	92.3%	97.3%	60%	140%	5.3%	30
Toluene	. 100	91.3%	94.1%	60%	140%	3.0%	30
Xylenes, Total	300	93.6%	94.9%	60%	140%	1.4%	30
TPH by EPA 418.1 - Solid			Units:	mg/Kg	Analys	is Date: 1/26/	00

QUALITY CONTROL DATA

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

	Value 1	Value 2	% Var.
TPH:	32.4	32.2	0.61

CONCENTR	ATION UNIT	S: TPH - ppm	
DETECTION	N LIMITS:	TPH - 10	
ANALYST	ANALYTE	DATE EXTRACTED	DATE ANALYZED
Anthony Taylor	TPH	1/26/00	1/26/00

Page _____ Of _____

ζο.	This is a contract subject to the terms and conditions on the reverse side.	terms and conditions	bject to the	a contract su	orting. This is	Sample information is vital for proper login and reporting.	vital for pro	lformation is	Sample in	010 REV 5/97	
Submission # 000/302											
	nt	Method of Shipment									
		COC Seals Intact									
		Preserved Properly		-				1 1		. 0.	
Pay For Sample Disposal	on id	Temperature	9:00	1/22/00	mhill	Mard Il	1200	Vallo		hatle	
In the event that Anachem determines that a same in hazardous, the client agrees to:	otes	Sample Receipt Notes	Time	Date		Received By	Time	Date		Relinquished By	
									10.		
						44. 			.9		
×	ILE/METH			Ř				1211 4-4	8.	80-	
	Ter	1230	31/	San				rell 4	7.	-07	
*	Ecc/NEH	1205		Ser			P	REN 3-A	6.	20-	
*	TUE) so	× /	Sai				nell 3-	<u>.</u>	50-	
×	I'C/MEH	1 1135		Jes Jes			Å	(1211 2-A	.4	pa-	
	ILE	1125		Sur					3.	-03	
×	ICE/MEHA	(1115		Sei			4	GEIN 7-A	2.	-02	
*	TUE	1/21/94 1100		50,1				GEI1 2		0001302-01	
	Sample Notes	Date/Time	urix	Matrix				Client Sample ID	Clie	Lab#	
		Rebirets	L	By: Justin	% Sampled By:	% 50% 100%	6 % 25%	Rush:	ASAL	Date Due: K	
2H F X			- M. M.	LEA (o.	City, State:			Véa	Give VEA	Project Location:	
		Quote #:					4	A Gall	GUOD VEA	Project Name:	r
18.1 2024	-4824	Fax (505)797-4874	4)	Phone: 806-762 - 0241	Phone: 800	Fax:(503) 8W-0563	88 (203):		6hho-138	Phone:/(05) 5	
() ()		City, State, Zip: Alburu Bague, N.M. 87125	יט ארקערב,	Zip: Albuy	City, State,	-25 ch - 15	N, Pros	و کر کر	Anthe	City, State, Zip: Anotheny, N.M. (PRO2) - 4232	
			25547	Address: P.b. Box 25547	Address: P	•		284	Box 42	Address: P.U. Box 4232	
				der #:	Purchase Order #:	Rhime Environmental Speur fort	in Sa	KAN MA	NE DNU	Company: Rhu	
Analysis		Bill To: (Buyer) Rhine Fru. SFRU. INC.	a huu.	ver) Rhim	Bill To: (Bu			BERADELL		Report To: MWIE/F	
Fax: 972-727-9686	972-727-9003 Fa	Phone:	1, TX 750	104, Aller	8 Prestige Circle, Suite 104, Allen, TX 75002		n, Inc	Anachem, Inc.	≥		
$Page \angle of \angle \cdot$	ody	Purchase Order/Chain Of Custody	'Chai	Order	urchase		I	L			

.ir (* *

÷ ¢ ĩ