District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Kimbell Oil Co. of Texas	Contact Jonathan M. Stickland
Address 777 Taylor Str, PII-A Ft. Worth Club Tower, Ft. Worth, Texas 76102	Telephone No. (817) 335-2591 ext 30
Facility Name Salazar No. 004E	Facility Type Gas

Surface Owner	Mineral Owner	Lease No. API No. 30-039-23368

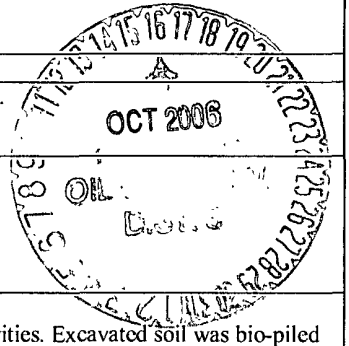
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	34	25N	6W	1630	N	1460	W	Rio Arriba

Latitude 36.35928 **Longitude** -107.45850

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	



If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A release of 183 bbl of condensate was the initial cause. Envirotech Inc, of Farmington, NM completed excavation activities. Excavated soil was bio-piled on three (3) well sites, Salazar Federal #3 (Sec 27, Twp 25N, Rng 6W), Salazar G Com # 27-2 (Sec 27, Twp 25N, Rng 6W) and Warren # 3 (Sec 26, Twp 25N, Rng 6W), all within the same lease for Kimbell Oil Company of Texas. Urea nitrate, manure and potassium permanganate was used to aide in bio-remediation. The piles were blended once a month until the closure samples were collected on September 20, 2006.

Describe Area Affected and Cleanup Action Taken.*
Urea nitrate, manure and potassium permanganate was used to aide in bio-remediation. The piles were blended once a month until the closure samples were collected on September 20, 2006.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: J M Stickland	OIL CONSERVATION DIVISION
Printed Name: Jonathan M. Stickland	Approved by District Supervisor: Brandon Powell For: Charlie Perrin
Title: Operations Manager	Approval Date: 10/16/06 Expiration Date:
E-mail Address: jms@kimbelloil.com	Conditions of Approval: Attached ☐
Date: 10-9-06 Phone: (817) 335-2591	

* Attach Additional Sheets If Necessary

nDGF0602456577

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

September 29, 2006 Client No. 06011-001

Mr. Jonathan M. Stickland
Kimbell Oil Company of Texas
777 Taylor Street, Suite P-IIA
Fort Worth, Texas 76102

Phone: (817) 335-2593
Fax: (817) 338-1355

RE: BIO-PILE FROM THE SALAZAR NO. 4E, API NO. 30-039-23368, RIO ARRIBA COUNTY, NEW MEXICO

Dear Mr. Stickland:

Enclosed, please find laboratory analyses by both USEPA Method 8015 and 8021 showing concentrations below New Mexico Oil Conservation Division (NMOCD) ranking criteria. Bio-piles were created on the following sites with corresponding soil volumes and ranking score;

Salazar Federal # 3	4000 cubic yards	>TPH 1,000ppm
Salazar Federal G Com # 27-2	4000 cubic yards	>TPH 1,000 ppm
Warren # 3	4000 cubic yards	>TPH 1,000 ppm

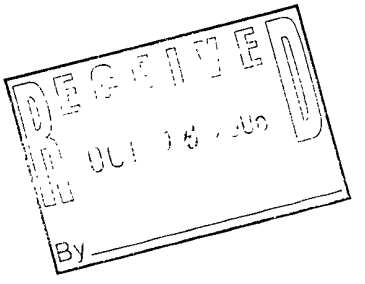
One (1) composite sample was collected for every 1,500 cubic yards of bio-piled soil. Samples were collected from hand augering in varying depths ranging from 3'- 9' below the bio-pile surface. Each composite consisted of five (5) separate auger points. The soil was collected in quart-size Ziplock baggies, blended, then transferred to four (4) ounce glass jars, sealed with a Teflon closure and transported to Envirotech's laboratory for analysis.

All impacted soils have been remediated according to NMOCD standards and guidelines. Envirotech recommends that no further action be taken in regards to these bio-piles. Additionally, Envirotech recommends these piles be re-contoured to match existing grade and conditions.

We appreciate the opportunity to be of service, if you have any questions, or require any additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.

Michael P. Marquez
Environmental Scientist / Safety Officer
mmarquez@envirotech.com



Enclosures: Report

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #1, Warren #3	Date Reported:	09-24-06
Laboratory Number:	38557	Date Sampled:	09-20-06
Chain of Custody No:	1493	Date Received:	09-20-06
Sample Matrix:	Soil	Date Extracted:	09-22-06
Preservative:	Cool	Date Analyzed:	09-24-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.0**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**1.0**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #2, Warren #3	Date Reported:	09-24-06
Laboratory Number:	38558	Date Sampled:	09-20-06
Chain of Custody No:	1493	Date Received:	09-20-06
Sample Matrix:	Soil	Date Extracted:	09-22-06
Preservative:	Cool	Date Analyzed:	09-24-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.5**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**0.5**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #3, Warren #3	Date Reported:	09-24-06
Laboratory Number:	38559	Date Sampled:	09-20-06
Chain of Custody No:	1493	Date Received:	09-20-06
Sample Matrix:	Soil	Date Extracted:	09-22-06
Preservative:	Cool	Date Analyzed:	09-24-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**3.1**	**0.2**
Diesel Range (C10 - C28)	**3.4**	**0.1**
Total Petroleum Hydrocarbons	**6.5**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #1, Warren #3	Date Reported:	09-24-06
Laboratory Number:	38557	Date Sampled:	09-20-06
Chain of Custody:	1493	Date Received:	09-20-06
Sample Matrix:	Soil	Date Analyzed:	09-24-06
Preservative:	Cool	Date Extracted:	09-22-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**11.2**	**1.8**
Toluene	**25.5**	**1.7**
Ethylbenzene	**44.9**	**1.5**
p,m-Xylene	**297**	**2.2**
o-Xylene	**109**	**1.0**
Total BTEX	**488**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #2, Warren #3	Date Reported:	09-24-06
Laboratory Number:	38558	Date Sampled:	09-20-06
Chain of Custody:	1493	Date Received:	09-20-06
Sample Matrix:	Soil	Date Analyzed:	09-24-06
Preservative:	Cool	Date Extracted:	09-22-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**6.0**	**1.8**
Toluene	**19.4**	**1.7**
Ethylbenzene	**53.5**	**1.5**
p,m-Xylene	**126**	**2.2**
o-Xylene	**21.5**	**1.0**
Total BTEX	**226**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #3, Warren #3	Date Reported:	09-24-06
Laboratory Number:	38559	Date Sampled:	09-20-06
Chain of Custody:	1493	Date Received:	09-20-06
Sample Matrix:	Soil	Date Analyzed:	09-24-06
Preservative:	Cool	Date Extracted:	09-22-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**7.8**	**1.8**
Toluene	**26.7**	**1.7**
Ethylbenzene	**21.6**	**1.5**
p,m-Xylene	**121**	**2.2**
o-Xylene	**42.0**	**1.0**
Total BTEX	**219**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-24-BTEX QA/QC	Date Reported:	09-24-06
Laboratory Number:	38556	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-24-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	4.8219E+007	4.8316E+007	0.2%	ND	0.2
Toluene	5.5822E+007	5.5934E+007	0.2%	ND	0.2
Ethylbenzene	2.4440E+007	2.4488E+007	0.2%	ND	0.2
p,m-Xylene	1 0192E+008	1.0212E+008	0.2%	ND	0.2
o-Xylene	4.7541E+007	4.7637E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	61.8	61.7	0.2%	0 - 30%	1.8
Toluene	104	103	0.5%	0 - 30%	1.7
Ethylbenzene	85.8	85.6	0.2%	0 - 30%	1.5
p,m-Xylene	156	155	0.3%	0 - 30%	2.2
o-Xylene	69.5	69.4	0.1%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	61.8	50.0	111	99.6%	39 - 150
Toluene	104	50.0	153	99.7%	46 - 148
Ethylbenzene	85.8	50.0	135	99.6%	32 - 160
p,m-Xylene	156	100	255	99.7%	46 - 148
o-Xylene	69.5	50.0	119	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 38556 - 38562, 38590 - 38592**

Analyst

Review

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CHAIN OF CUSTODY RECORD

1493

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
KIMBELL OIL		
Sampler: MPM / JT	Client No. 06011-001	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015	8021					Remarks
												SALAZAR 4E
BIOPILE #3	9/20/06	1222	38556	SOIL	1	X	X					
SALAZAR FEDERAL #3												
BIOPILE #1		1345	38557									
WARREN #3												
BIOPILE #2		1400	38558									
WARREN #3												
BIOPILE #3		1415	38559									
WARREN #3												

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. Thompson	9/20/06	1620		9/20/06	1620
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #1, Salazar Federal #3	Date Reported:	09-22-06
Laboratory Number:	38554	Date Sampled:	09-20-06
Chain of Custody No:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Extracted:	09-21-06
Preservative:	Cool	Date Analyzed:	09-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**51.3**	**0.2**
Diesel Range (C10 - C28)	**29.1**	**0.1**
Total Petroleum Hydrocarbons	**80.4**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #2, Salazar Federal #3	Date Reported:	09-22-06
Laboratory Number:	38555	Date Sampled:	09-20-06
Chain of Custody No:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Extracted:	09-21-06
Preservative:	Cool	Date Analyzed:	09-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #3, Salazar Federal #3	Date Reported:	09-24-06
Laboratory Number:	38556	Date Sampled:	09-20-06
Chain of Custody No:	1493	Date Received:	09-20-06
Sample Matrix:	Soil	Date Extracted:	09-22-06
Preservative:	Cool	Date Analyzed:	09-24-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**2.3**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**2.3**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #1, Salazar Federal #3	Date Reported:	09-22-06
Laboratory Number:	38554	Date Sampled:	09-20-06
Chain of Custody:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Analyzed:	09-22-06
Preservative:	Cool	Date Extracted:	09-21-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**48.2**	**1.8**
Toluene	**265**	**1.7**
Ethylbenzene	**365**	**1.5**
p,m-Xylene	**892**	**2.2**
o-Xylene	**217**	**1.0**
Total BTEX	**1,790**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #2, Salazar Federal #3	Date Reported:	09-22-06
Laboratory Number:	38555	Date Sampled:	09-20-06
Chain of Custody:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Analyzed:	09-22-06
Preservative:	Cool	Date Extracted:	09-21-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**54.8**	**2.2**
o-Xylene	**10.9**	**1.0**
Total BTEX	**65.7**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #3, Salazar Federal #3	Date Reported:	09-24-06
Laboratory Number:	38556	Date Sampled:	09-20-06
Chain of Custody:	1493	Date Received:	09-20-06
Sample Matrix:	Soil	Date Analyzed:	09-24-06
Preservative:	Cool	Date Extracted:	09-22-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**61.8**	**1.8**
Toluene	**104**	**1.7**
Ethylbenzene	**85.8**	**1.5**
p,m-Xylene	**156**	**2.2**
o-Xylene	**69.5**	**1.0**
Total BTEX	**477**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

Analyst

Review

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CHAIN OF CUSTODY RECORD

1492

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
KIMBELL OIL		
Sampler: MPM / JT	Client No. 06011-001	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015	8021	Remarks
BIOPILE #1	9/20/06	1310	38551	SOIL	1	X	X	SALAZAR 4E
SALAZAR G								
BIOPILE #2		1255	38552					
SALAZAR G								
BIOPILE #3		1240	38553					
SALAZAR G								
BIOPILE #1		1150	38554					
SALAZAR FEDERAL #3								
BIOPILE #2		1210	38555					
SALAZAR FEDERAL #3								

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
L. Thompson	9/20/06	1620	Rhonda Hall	9/20/06	1620
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-22-06 QA/QC	Date Reported:	09-22-06
Laboratory Number:	38520	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-22-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	9.9558E+002	9.9658E+002	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	1.0044E+003	1.0064E+003	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 38520 - 38521, 38526 - 38528, 38551 - 38555**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #1, Salazar G	Date Reported:	09-22-06
Laboratory Number:	38551	Date Sampled:	09-20-06
Chain of Custody No:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Extracted:	09-21-06
Preservative:	Cool	Date Analyzed:	09-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**333**	**0.2**
Diesel Range (C10 - C28)	**560**	**0.1**
Total Petroleum Hydrocarbons	**893**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #2, Salazar G	Date Reported:	09-22-06
Laboratory Number:	38552	Date Sampled:	09-20-06
Chain of Custody No:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Extracted:	09-21-06
Preservative:	Cool	Date Analyzed:	09-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**216**	**0.2**
Diesel Range (C10 - C28)	**331**	**0.1**
Total Petroleum Hydrocarbons	**547**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #3, Salazar G	Date Reported:	09-22-06
Laboratory Number:	38553	Date Sampled:	09-20-06
Chain of Custody No:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Extracted:	09-21-06
Preservative:	Cool	Date Analyzed:	09-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**15.2**	**0.2**
Diesel Range (C10 - C28)	**27.0**	**0.1**
Total Petroleum Hydrocarbons	**42.2**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #1, Salazar G	Date Reported:	09-22-06
Laboratory Number:	38551	Date Sampled:	09-20-06
Chain of Custody:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Analyzed:	09-22-06
Preservative:	Cool	Date Extracted:	09-21-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**93.8**	**1.8**
Toluene	**441**	**1.7**
Ethylbenzene	**797**	**1.5**
p,m-Xylene	**2,290**	**2.2**
o-Xylene	**297**	**1.0**
Total BTEX	**3,920**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #2, Salazar G	Date Reported:	09-22-06
Laboratory Number:	38552	Date Sampled:	09-20-06
Chain of Custody:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Analyzed:	09-22-06
Preservative:	Cool	Date Extracted:	09-21-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**35.6**	**1.8**
Toluene	**283**	**1.7**
Ethylbenzene	**805**	**1.5**
p,m-Xylene	**1,550**	**2.2**
o-Xylene	**563**	**1.0**
Total BTEX	**3,240**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Biopile #3, Salazar G	Date Reported:	09-22-06
Laboratory Number:	38553	Date Sampled:	09-20-06
Chain of Custody:	1492	Date Received:	09-20-06
Sample Matrix:	Soil	Date Analyzed:	09-22-06
Preservative:	Cool	Date Extracted:	09-21-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**2.0**	**1.8**
Toluene	**10.9**	**1.7**
Ethylbenzene	**122**	**1.5**
p,m-Xylene	**201**	**2.2**
o-Xylene	**67.0**	**1.0**
Total BTEX	**403**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-24-06 QA/QC	Date Reported:	09-24-06
Laboratory Number:	38556	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-24-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	1.0029E+003	1.0039E+003	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	07-11-05	9.9820E+002	1.0002E+003	**0.20%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**2.3**	**2.3**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**2.3**	**250**	**252**	**99.9%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 38556 - 38562, 38590 - 38592**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-22-BTEX QA/QC	Date Reported:	09-22-06
Laboratory Number:	38526	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-22-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	5.4863E+007	5.4973E+007	0.2%	ND	0.2
Toluene	6.7025E+007	6.7159E+007	0.2%	ND	0.2
Ethylbenzene	2 8770E+007	2.8828E+007	0.2%	ND	0.2
p,m-Xylene	1 2271E+008	1.2295E+008	0.2%	ND	0.2
o-Xylene	5.9332E+007	5.9451E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	13.0	13.0	0.0%	0 - 30%	1.5
p,m-Xylene	59.5	59.4	0.2%	0 - 30%	2.2
o-Xylene	27.1	27.1	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	50.0	100.0%	46 - 148
Ethylbenzene	13.0	50.0	62.9	99.8%	32 - 160
p,m-Xylene	59.5	100	159	99.9%	46 - 148
o-Xylene	27.1	50.0	77.0	99.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 38526 - 38528, 38541, 38551 - 38555**

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