

# REPORTS



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Key Energy Services, Inc. 2625 W. Marland P.O. Box 2040 Hobbs, NM 88241 (505)393-9171 Fax (505)393-3848

## Permian Basin Division South Eastern New Mexico Division Office

Fax Transmittal Cover Sheet

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·····

Date: 12/18/2002

To: Wayne Price

Attention:

From: \_\_\_\_\_ Royce Crowell

# Pages: <u>3</u> (Including Cover)

Notes: requested pages

For Information or Confirmation, Please call (505)393-9171



ARCADIS

Mr. Royce Crowell January 20, 2003

- 1. No NORM impact was found at this site,
- Hydrocarbon impact was addressed by the PID readings and the laboratory analysis of soil samples.
  - 2a. Laboratory analysis indicates that there is no BTEX impact.
  - 2b. The only TPH impact that was encountered was from dieacl range organics (DRO>C12-C35) and only one sample exceeded the 100ppm regulatory limit. This sample was taken in SB-3 (2'). The DRO was 110 ppm and the sample below SB-3 (5') had no detectable hydrocarbon impact.
- Laboratory analysis of the soil samples for RCRA metals indicated that there
  was no selenium, silver or mercury detected in any of the samples.
  - 3a. Barium was encountered, but is felt that this was a natural occurrence.
  - 3b. Small amounts of arsenic, cadmium, chromium, and lead were encountered in the soils and their source is unclear.
- 4. Moderately high concentrations of chlorides were encountered in each of the soil borings and these appear to decrease with depth.
  - 4a. The highest chloride concentrations appear to be associated with the shallow borings (SB-1 & SB-2) around the coment pad.
  - 4b. The chlorides were in the 1,060 milligrams per kilogram (mg/Kg) to 4.520 mg/Kg (equivalent to ppm) range.

#### **RECOMMENDATIONS**

ARCADIS proposes the following recommendations for consideration:

- A groundwater assessment should be performed to determine the depth and quality of the groundwater. A monitor well drilled southeast of the pad and sump will evaluate potential chloride impact.
- 2. A shallow soil sample in another area removed from the pad should be taken and analyzed for RCRA total metals and chlorides to be used as a background control sample.
- 3. Excavation of the shallow impacted soil associated with the cement pad should be removed and replaced.
- 4. It is required that the soils at the base of an excavation be sampled to comply with NMOCD regulations.

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## ARCADIS

Mr. Royce Crowell January 20, 2003

ARCADIS appreciates the opportunity to investigate this property for Key Energy Services. If you should have any questions regarding this report of activities at the site, please do not hesitate to contact us at (915) 687-5400.

Very truly yours,

ARCADIS G&M, Inc.

Ralph Rang th

Ralph Lang Scientist

ischer

Steven P. Tischer Remediation Department Manager

copies: Mr. Gene Butler Key Energy Services 6 Desta Drive #5900 Midland, TX 79705

CAPROJECTIKEY Emergy Services/MT784.01 Eurocamports/Key Energy Earlos Truck Sump Report\_doc

#### Price, Wayne

From: Sent: To: Cc: Subject: Price, Wayne Friday, February 28, 2003 2:10 PM Royce Crowell (E-mail) 'rlang@arcadis-us.com' Key Energy Services-Eunice Yard

The OCD is in receipt of the Arcadis report titled "Findings and Recommendations from a Soil Investigation of the Truck Wash Sump Eunice NM Yard" dated January 20, 2003. Please note pages 3 and 4 of the report are missing. There is no recommendations that OCD could find. In addition, there is no signature page from Key Energy or Arcadis. OCD assumes this was on page 3 or 4. Please note this is a voluntary investigation by Key Energy. It is a normal practice that operators supply to the OCD complete information including findings and recommendations. Otherwise, OCD will have to require that this site be permitted and the investigation will be handled under the permit or an abatement plan. It is OCD's recommendation that Key continue with the voluntary procedure allowed by WQCC and provide OCD with a complete report.

Sincerely:

Wape Pini

Wayne Price New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505 505-476-3487 fax: 505-476-3462 E-mail: WPRICE@state.nm.us

Infrastructure, buildings, environment, communications

Mr. Royce Crowell Key Energy Services 2625 W. Marland Hobbs, New Mexico 88241

ARCADIS

Subject

Findings and Recommendations from a Soil Investigation of the Truck Wash Sump Key Energy Services, Eunice, New Mexico Facility Lea County, New Mexico

#### Dear Mr. Crowell:

On November 19, 2002, ARCADIS G&M, Inc. (ARCADIS) performed an investigation into the potential soil impact associated with the Key Energy Services truck washing facility pad and sump located in Eunice, New Mexico. The sump and pad are contiguous to the main shop and office building and are directly south of the building. A total of four soil borings were advanced using air rotary drilling.

The Key Energy Services facility is located at 2105 Avenue O (New Mexico Highway 176) in Eunice, New Mexico. The sump is located at approximately North 32 Degrees, 26 Minutes, 29.6 seconds longitude and West 103 degrees, 10 minutes, 7.3 seconds latitude. Figure 1 is a map of the site.

Mr. Wayne Price of the New Mexico Oil Conservation Commission (NMOCD) inspected the site before work began and verified compliance with NMOCD regulations.

#### FIELD METHODS

Four soil borings were drilled around the truck washing facility sump and pad. A direct-push sampling device was used to collect soil samples for analysis. The sampling device was thoroughly cleaned between each sample using laboratory-grade soap and water. Soil samples were caught at intervals of 0-0.5 feet, 2 feet, 5 feet, and at 5-foot intervals thereafter, to total depth.

The samples were sealed in 4-ounce glass jars and in plastic zip-lock bags. The headspace in the zip-lock bags was analyzed using a photo-ionization detector (PID) that was previously calibrated using 100 parts per million (ppm) isobutane. A scintillator was used to screen for the potential of naturally occurring radioactive material (NORM).

ARCADIS G&M, Inc. 1004 N. Big Spring Street. Suite 300 Midland Texas 79701 Tel 915-687-5400 Fax 915-687-5401 www.arcadis-us.com

ENVIRONMENT

Date: January 20, 2003

Contact: Ralph Lang

Phone: (915) 687-5400

Email: rlang@arcadis-us.com

#### Our ref:

G:/Aproject/Key Energy Services/MT0764.01 Eunice/reports/Key Energy Eunice Truck Sump Report

Part of a bigger picture



Mr. Royce Crowell January 20, 2003

The two borings closest to the sump, SB-1 and SB-2, were drilled to 25 feet and 21 feet, respectively. Soil borings SB-3 and SB-4 were drilled until no impacted soil was evident by field inspection and screening (13 feet and 15 feet, respectively). All soil borings were plugged to the surface with bentonite chips that were hydrated with fresh water.

Two soil samples from each borehole were submitted to the laboratory for analysis. One sample was taken from the sample with the highest headspace reading; the other sample was taken from either the base of the boring or when field observation indicated that there was no other soil impact. Samples were collected according to standard procedures in containers supplied by the laboratory. They were placed on ice soon after they were taken and kept on ice until they were turned over to laboratory personnel.

PID readings, scintillator readings, and the soil descriptions are summarized on the boring logs in Appendix A. Using appropriate chain-of-custody protocol, the soil samples were hand-delivered by ARCADIS personnel to Environmental Lab of Texas I, LTD.

The samples were analyzed for total petroleum hydrocarbons (TPH) by method 8015M and for benzene, toluene, ethylbenzene and xylenes (BTEX) by method 8021B/5030. The samples were also examined for the eight RCRA metals (arsenic, barium, cadmium, chromium, lead, selenium, silver, mercury) and for chloride.

#### FIELD AND ANALYTICAL RESULTS

The highest PID readings observed were 220 ppm and 299 ppm in soil boring SB-1 from 10 feet and 20 feet, respectively. Field readings for NORM did not exceed measured background levels.

Analytical results were examined for completeness and procedural errors and none were observed. The complete laboratory analytical report is included in Appendix B.

No BTEX was detected in any of the samples analyzed. TPH was found in the diesel range (>C12-C35). TPH and BTEX analytical results are summarized Table A. Chloride and RCRA 8 metals analytical results are summarized in Table B.

#### **CONCLUSIONS**

There were four types of potential soil impact addressed by this investigation. These potential impacts were NORM, hydrocarbon, metals, and chloride. No groundwater investigation was conducted at this site. Field and laboratory analysis indicated the following:

## ARCADIS

Mr. Royce Crowell January 20, 2003

- 1. No NORM impact was found at this site.
- 2. Hydrocarbon impact was addressed by the PID readings and the laboratory analysis of soil samples.
  - 2a. Laboratory analysis indicates that there is no BTEX impact.
  - 2b. The only TPH impact that was encountered was from diesel range organics (DRO>C12-C35) and only one sample exceeded the 100ppm regulatory limit. This sample was taken in SB-3 (2'). The DRO was 110 ppm and the sample below SB-3 (5') had no detectable hydrocarbon impact.
  - 3. Laboratory analysis of the soil samples for RCRA metals indicated that there was no selenium, silver or mercury detected in any of the samples.
    - 3a. Barium was encountered, but is felt that this was a natural occurrence.
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  - 4. Moderately high concentrations of chlorides were encountered in each of the soil borings and these appear to decrease with depth.
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## Key Energy Services Eunice, New Mexico Truck Washing Facility Pad and Sump

ARCADIS

#### Samples collected November 19, 2002

#### Table A

#### Organic Compounds in mg/Kg (ppm)

Soil	TPI	-			BTEX		
Borings	GRO, C6-C12	DRO, >C12-C35	Benzene	Ethylbenzene	Toluene	p/m-Xylene	o-Xylene
SB-1 (20')	<10.0	20.7	<0.025	<0.025	<0.025	<0.025	<0.025
SB-1 (25')	<10.0	60.8	<0.025	<0.025	<0.025	<0.025	<0.025
\$B-2 (10')	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025	<0.025
SB-2 (15')	<10.0	16.8	<0.025	<0.025	<0.025	<0.025	<0.025
SB-3 (2')	<10.0	110	<0.025	<0.025	<0.025	<0.025	<0.025
SB-3 (5')	<10.0	<10.0	<0.025	· <0.025	<0.025	<0.025	<0.025
SB-4 (2')	<10.0	33.3	<0.025	<0.025	<0.025	<0.025	<0.025
SB-4 (5')	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025	<0.025

## Key Energy Services

#### Eunice, New Mexico Truck Washing Facility Pad and Sump

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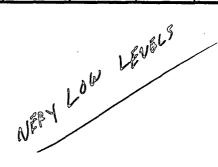
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#### Samples collected November 19, 2002

#### Table B

#### Eight RCRA Metals and Chloride in mg/Kg (ppm)

Soil Borings	Chloride	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
SB-1 (20')	1060	<0.40	196	0.677	4.35	< 0.550	<0.20	<0.10	<0.10
SB-1 (25')		<0.40	98.3	0.652	4.29	1.09	<0.20	<0.10	<0.10
SB-2 (10')		1.72	130	0.431	2.48	<0.550	<0.20	<0.10	<0.10
SB-2 (15')	1660	1.41	559	0.543	3.42	0.76	<0.20	<0.10	<0.10
SB-3 (2')		1.32	522	0.606	3.58	4.57	<0.20	<0.10	<0.10
SB-3 (5')	2390	2.92	216	0.758	. 3.5	0.7	<0.20	<0.10	<0.10
				<u> </u>					
SB-4 (2')		0.945	169	0.682	3.88	6.14	<0.20	<0.10	<0.10
SB-4 (5')	4520	2.06	169	0.433	1.95	1.68	<0.20	<0.10	<0.10



## ARCADIS

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#### Appendix A

#### Soil Boring Logs

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	9 TAA						B		SB-1
AF	RCADIS	5 -	1004	N. Big S	pring S	st. Suite	e 300, Mi	dland, TX 79701-3383 Tel: 915 687-5400 Fax: 915 687-5401	Page 1 of 1
CLI PRC SITI	Dject nun Ent name Dject nam E locatio Ique num	: 1E: N:	K€ Eu	inice Y	gy Ser ard W	vices, Ir 'ash Bas ew Mex	in Soil Bo	LOGGER: D. McNeese	
DEPTH	SAMPLED SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U.S.C.S. CLASS	ГІТНОГОЄУ	DESCRIPTION	
0-	Push				14.2			SAND: brown, very fine grained, rounded, well sorted. Park brown stain with strong hydroc	arbon odor.
-5-					33			SAND: reddish brown, very fine grained, rounded to subrounded, well sorted, slight odor.	
-10 -	- Honore Push				122			SAND: pale yellow, very fine grained, rounded to subrounded, well sorted, slight odor.	
-15 -					122			SAND: light red to pink, very fine grained, rounded, well sorted, trace of CALICHE.	
-20 -	Shovel				220			SANDY CALICHE: pale yellow, chalky SAND, rounded, quartz grains (hard drilling).	
-20 -	Push				299			SAND: light pink, very fine grained, rounded to subrounded, fairly sorted (very hard drilling	
-25	Push/ Shovel			,	8		<del></del>	SANDY CALICHE: pale tan to buff, slightly chalky; SAND—very fine grained. (Note:25' sa The push tube only yielded about 2 oz. The remainder was from shovel sample off the au	imple was not very representative. gers.)

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AR	C	ADIS	5  -	1004	N. Big S	pring S	t. Suite	e 300, Mi	land, TX 79701-3383 Tel: 915 687-5400 Fa	ax: 915 687-5401	Page 1 of 1
CLIE PRO SITE	INT JEC LO	t num Name T nam Catio E num	: 1E: N: <sup>:</sup>	K Er Le	1T00070 ey Ener unice Y ea Cour	gy Ser ard W	vices, Ir ash Bas w Mex	sin Soil Bo	LOGGER:	 D. McNeese	Plus DMPLETED: 11/19/02
DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U.S.C.S. CLASS	ПТНОГОСУ	DESCRIP	PTION	
0-		Push				165			SAND: pale red to buff, very fine grained. Some brown stain with	strong hydrocarbon odor.	
-		Push				10			SAND: red brown, very fine to fine grained, rounded, well sorted,	trace stain, moderate odo	
-5-		Push				15			SAND: light red, very fine to fine grained, trace CALICHE, some	pink.	
-10 -		Push/ Shovel				146			SAND: light red, very fine grained, rounded to subrounded, well s	sorted; CALICHE—buff, fin	m to hard.
-15 -		Shovel				0			CALICHE: Note: CALICHE loaded up probe; no sample (sample 19' to 20.5'.	e collected from shovel). Ve	ny hard to 18°, pushed probe from
-20 -						36			SANDY CALICHE: light pink, some limestone nodules, slightly o	chalky. Refusal at 21'.	

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		うん						B		SB-3
AR	RCA	ADI:	S  -	1004	N. Big S	pring S	St. Suite	e 300, Mio	land, TX 79701-3383 Tel: 915 687-5400 Fax: 915 687	-5401 Page 1 of 1
clie Prc Site	ent i Djec" E log	t nun Name T nan Catic E nuiv	:: ЛЕ: )N:	K E L	/T0007 (ey Ener unice Y ea Cou	gy Sei ard W	rvices, Ir /ash Bas ew Mex	in Soil Bo	DRILLING METHOD: Geoprol ings DRILLER: — LOGGER: D. McNe	
DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U.S.C.S. CLASS	ГІТНОГОЄУ	DESCRIPTION	
0-						2.1			SAND: pale yellow to buff tan, very fine grained, well sorted, rounded, trace bro SAND: light red brown, very fine grained, fairly sorted, trace CALICHE.	wn stain.
-5 -		•				0			SAND: red brown, very fine grained, well sorted, trace CALICHE. SAND: light pink red, very fine grained, well sorted, clean. Refusal at 13'. Stopp	ed drilling because clean hole.

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A	RC/	ADI:	S  -	1004	N. Big S	pring S	it. Suite	e 300, Mi	dland, TX 79701-3383	Tel: 915 687-5400 Fax: 915 687-5401	Page 1 of 1
CL PR SIT	lient Rojec Te lo	t nun Name T nan Catic E num	e: Me: DN:	K E L	1T00070 ey Ener unice Y ea Cour	gy Ser ard W	vices, li ash Bas ew Mex	in Soil Bo	-	DRILLING CO:EnvironmentalDRILLING METHOD:GeoprobeDRILLER:—LOGGER:D. McNeeseDATE BEGUN:11/19/02DATE C	Plus OMPLETED: 11/19/02
DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U.S.C.S. CLASS	ГІТНОГОСҮ		DESCRIPTION	
0						5.2				ined, rounded, well sorted, trace CALICHE.	CHE.
-5						0			SAND: light red to pink, very fir	e grained, subrounded, fairly sorted, trace CALICHE.	
-10						0			SAND: red orange, very fine gr CALICHE SAND CALICHE	ained, rounded, well sorted, clean	
-15	;_					8.2			SANDY CALICHE: pale yellow	to light pink, very fine grained SAND.	

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## ARCADIS

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Appendix B

#### Laboratory Analyses

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# **ANALYTICAL REPORT**

## Prepared for:

MR. STEVE TISCHER ARCADIS GERAGHTY & MILLER, INC. 1004 N. BIG SPRING STREET MIDLAND, TX 79701 ~ · 1

Project: MT000764.0001
PO#:

10#:

**Order#:** G0205083

**Report Date:** 11/27/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

#### SAMPLE WORK LIST

ARCADIS GERAGHTY & MILLER, INC. 1004 N. BIG SPRING STREET

MIDLAND, TX 79701

687-5401

Order#:G0205083Project:None GivenProject Name:MT000764.0001Location:Key Eunice / NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

	ſ		Date / Tin	ne D	ate / Time	• .	
Lab ID:	Sample :	<u>Matrix:</u>	Collected		Received	Container	Preservativ
0205083-06	SB-1 (20')	SOIL	11/19/02 10:30		11/20/02 16:50	4 oz Glass	lœ
La	b Testing:	Rejected: No	,	Temp:	0.5 C		
	8015M						
	8021B/5030 BTEX						
	METALS RCRA 7 Tot	al					
	Chloride						
	Mercury, Total						
0205083-07	SB-1 (25)	SOIL	11/19/02 10:50		11/20/02 16:50	4 oz Głass	Ice
La	ub Testing:	Rejected: No	0	Temp:	0.5 C		
	8015M						
, ,	8021B/5030 BTEX						
	METALS RCRA 7 Tot	al					•
	Mercury, Total						
0205083-11	SB-2 (10')	SOIL	11/19/02 13:13		11/20/02 16:50	4 oz Glass	Ice
Le	ab Testing;	Rejected: No	0	Temp:	0.5 C		
ι.	8015M						,
	8021B/\$030 BTEX						
	METALS RCRA 7 Tot	tal					
	Mercury, Total						,
0205083-12	\$B-2 (15')	SOIL	11/19/02		11/20/02 16:50	4 oz Glass	lce
L	ab Testing:	Rejected: N		Temp:	0.5 C		
2	8015M			•			
	8021B/5030 BTEX		·				
	METALS RCRA 7 To	tal					
	Chloride						
	Mercury, Total						
0205083-15	SB-3 (2')	SOIL.	11/19/02 15:05	2	11/20/02	4 oz Glass	lce
L	ab Testing:	Rejected: N		Temp:			
	8015M						
	8015M	FTEYASIII	rb 12600 V	Vest 1-7	0 Fast Ode		26. 915-563-1800

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12

12600 West 1-20 East, Odessa, TX 79765 Ph: 915-563-1800

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#### SAMPLE WORK LIST

ARCADIS GERAGHTY & MILLER, INC. 1004 N. BIG SPRING STREET MIDLAND, TX 79701

(07 540)

687-5401

Order#:G0205083Project:None GivenProject Name:MT000764.0001Location:Key Eunice / NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	<u>Sample :</u> 8021B/5030 BTEX	<u>Matrix:</u>	<u>-</u> -	Date / Time Collected	Datc / Time <u>Received</u>	Container	Preservative
	METALS RCRA 7 Tot	al					
	Mercury, Total						
0205083-16	SB-3 (5')	SOIL		11/19/02 15:10	1 1/20/02 16:50	4 oz Glass	Ice
La	ib Testing:	Rejected:	No	Temp	: 0.5 C		
	8015M						
	8021B/5030 BTEX						
	METALS RCRA 7 To	tal					
	Chloride						
	Mercury, Total				·		
0205083-19	SB-4 (2')	SOIL		11/19/02 16:20	11/20/02 16:50	4 oz Glass	Ice
Le	ab Testing:	Rejected:	Na	Temp	• 0.5 C		
	8015M						
	8021B/5030 BTEX						
	METALS RCRA 7 To	tal					
مسترورين والمتروبينين التكريرينية وست	Mercury, Total						
0205083-20	SB-4 (5)	SOIL		11/19/02 16:25	11/20/02 16:50	4 oz Glass	íce
<u>L</u>	ab Testing:	Rejected:	No	Тетр	•: 0.5 C		
	8015M						
	8021B/5030 BTEX						
	METALS RCRA 7 To	tal					
	Chloride						
	Mercury, Total						· · · · · · · · · · · · · · · · · · ·
0205083-23	TRIP BLANK	LIQUID		11/19/02	11/20/02 16:50	40 mL VOA	lœ
<u>L</u>	<u>ab Testing:</u>	Rejected:	No	Tem	p: 0.5 C		
	8021B/5030 BTEX		_				

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

#### ANALYTICAL REPORT

IR. STEVE TIS RCADIS GERA 604 N. BIG SPR 11DLAND, TX	AGHTY & MILLER, RING STREET	INC.		Order#: Project: Project Name Location:	Not : MT	205083 le Given 000764.0001 <sup>r</sup> Eunice / NM	
Lab ID: Sample ID;	0205083-06 SB-1 (20')			· .	• •		
				8015M			
	Method	Date	Date	Sample	Dilatio	n	
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
			11/23/02	1	1	СК	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12	·····	<10.0		10.0	
		DRO, >C12-C35		20.7	-	10.0	
		TOTAL, C6-C35		20.7		10.0	
		Surroga	tes	% Recovered	QC Li	mits (%)	
		1-Chlorooct		104%	70	130	
		1-Chlorooct	adecane	99%	70	130	
			8021E	3/5030 BTEX		\$	
	Method	Date	Date	Sample	Dilutio		<b>b</b> <i>T</i> - 40 - 3
	Black	Prepared	<u>Aualyzed</u> 11/25/02	<u>Amount</u> 1	Factor 25	r <u>Analyst</u> CK	Method 8021B
	0003876-02		1:17	L	23	CK	0021D
		Parameter		Resul mg/kg		RL	
		Benzene		<0.02	5	0.025	
		Ethylbenzene		< 0.02		0.025	
		Toluene		<0.02		0.025	
		p/m-Xylene		<0.02	5	0.025	
		o-Xylene		<0.02	5	0.025	
		[		1 a/ 12			
		Surroga		% Recovered	80	mits (%) 120	
		aaa-Toluen Bromofluoro		90%	80	120	
						1 164	

DL= Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

#### ANALYTICAL REPORT

MR. STEVE TISC ARCADIS GERA( 1004 N. BIG SPRIJ MIDLAND, TX 7	GHTY & MILLER, NG STREET	INC.		Order#: Project: Project Name Location:	Non : MT	05083 e Given 009764.0001 Eanice / NM	
Lab ID:	0205083-07					,	
Sample ID:	SB-1 (25')						
				8015M			
	Method	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor		Mathad
	Blank	riepareu	11/23/02	1	<u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
				······································			
		Parameter		Result mg/kg	1	RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		60.8		10.0	
		TOTAL, C6-C3	5	60.8		10.0	
		<b></b>			00.00		
		Surrog		% Recovered	QC Lii 70		
		1-Chlorooc		98%	70	130 130	
				B/5030 BTEX	ليرب المسلم		
	Method	Date	Date	Sample	Dilutio		
	Blank	Prepared	Analyzed	Amount	Factor		Method
	0003876-02	2	11/25/02 1:36	1	25	СК	8021B
		Parameter		Result mg/kg		RL	
		Benzene		<0.025	5	0.025	
		Ethylbenzene		<0.025	5	0.025	
		Toluene		<0.025	5	0.025	
		1 1 17 4		<0.025	5	0,025	
	x	p/m-Xylenc					
		p/m-Xylenc o-Xylenc	······	<0.025	5	0.025	
		o-Xylene					
				<0.025 % Recovered 88%		0.025 mits (%)	

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#### ANALYTICAL REPORT

	AGHTY & MILLER, RING STREET	INC.		Order#: Project: Project Name Location:	Non : MT	05083 e Given Ю0764.0001 Ениісс / NM		
Lab ID: Sample ID:	0205083-11 SB-2 (10')					-		
				8015M				
	Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u> 11/23/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1		Method 8015M	
		Parameter		Result mg/kg		RL		
		GRO, C6-C12		<10.0		10.0		
		DRO, >C12-C35		<10.0		10.0		
		TOTAL, C6-C3	; 	<10.0	_;	10.0		
		Surrog	ates	% Recovered	QC Li	nits (%)		
		1-Chiorooc	tane	126%	70	130		
		1-Chlorooc	tadecane	116%	70	130		
			8021E	R/5030 BTEX				
	Method	Date	Date	Sample	Dilutio			
	Blank	Prepared	Analyzed	Amoust	Factor		Method	
	0003876-02		11/25/02 1:55	1	25	СК	8021B	
		Parameter		Result mg/kg		RL		
		Benzene		<0.025		0.025		
		Ethylbenzene		<0.02		0.025		
		Toluene		<0.02		0.025		
		p/m-Xylene		<0.02		0.025		
		o-Xylene	·····	<0.02		0.025		÷-
	,	Surrog	ates	% Recovered	QC Li	mits (%)		
		aaa-Toluer		82%	80	120		
		Bromofluo	robenzene	88%	80	120		

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#### ANALYTICAL REPORT

MR. STEVE TIS ARCADIS GERA 1004 N. BIG SPR MIDLAND, TX	GHTY & MILLER, ING STREET	INC.		Order#: Project: Project Name Location:	Non : MTC	05083 e Given 10 <del>0</del> 764.0001 Eunice / NM	
Lab ID: Sample ID:	0205083-12 SB-2 (15')						
				8015M			
	Method Blank	Date Prepared	Date Analyzed	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
			11/23/02	1	1	CK	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		16.8		10.0	
		TOTAL, C6-C3	·	16.8		10.0	
		Surrog	ates	% Recovered	QC Lin	nits (%)	
		1-Chlorooc		100%	70	130	
		1-Chlorooc	tadecane	95%	70	130	
			8021E	B/5030 BTEX			
	Method	Date	Date	Sample	Dilutio		
	Blank	Prepared	Analyzed	Amount	Factor		Method
	0003876-02	:	11/25/02 2:14	1	25	СК	8021B
		Parameter		Result mg/kg		RL.	
		Benzene		<0.025	5	0.025	1
		Ethylbenzene		<0.025		0.025	
		Toluene	· · · · · · · · · · · · · · · · · · ·	<0.025		0.025	1
		p/m-Xylene		<0.025		0.025	
		o-Xylene		<0.02	<u> </u>	0.025	J
		<b>0</b>		9/ Decoverat		mits (%)	
		Surrog aaa-Toluei		% Recovered 83%	80	120	
			1075	) 0.376	1 00	1 140 1	

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#### ANALYTICAL REPORT

MR. STEVE TIS ARCADIS GER 1004 N. BIG SPI MIDLAND, TX	AGHTY & MILLER, RING STREET	INC.		Order#: Project: Project Name: Location:	No: MT	205083 ne Given 1000764.0001 y Eunice / NM	
l.ab ID: Sample ID:	0205083-15 SB-3 (2')						
	ł			8015M			·
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 11/23/02	Sample <u>Amount</u> 1	Dilutio <u>Facto</u> 1		Method 8915M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		110		10.0	
	·	TOTAL, C6-C35	; 	110		10.0	
		Surrog	ates	% Recovered	QC L	imits (%)	
		1-Chlorooc	tane	103%	70	130	
		1-Chlorooc	tadecane	94%	70	130	
			8021 <b>1</b>	B/5030 BTEX			
	Method	Date	Date	Sample	Dilutio		
	<u>Blank</u> 0003876-02	<u>Prepared</u>	<u>Analyzed</u> 11/25/02 2:33	<u>Amoont</u> 1	Facto 25	<u>r Analyst</u> CK	Method 8021B
		Parameter		Result mg/kg		RL	
		Benzene		<0.025		0.025	
		Ethylbenzene	· · · · · · · · · · · · · · · · · · ·	<0.025		0.025	
		Toluene		<0.025		0.025	
		p/m-Xylene		<0.025		0.025	
		o-Xylene		<0.025		0.025	
		Surrog	ates	% Recovered	QC L	imits (%)	
		aaa-Toluer		86%	80	120	
		Bromofluor	obenzene	94%	80	120	

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#### ANALYTICAL REPORT

IR. STEVE TISCHER RCADIS GERAGHTY & MILLER, INC. 104 N. BIG SPRING STREET IIDLAND, TX 79701			Order#: Project: Project Name Location:	: MT0	5083 Given 00764.0001 Eunice / NM			
Lab ID: Sample ID:	0295083-16 SB-3 (5')							
				8015M				
	Metbod <u>Blank</u>	Date <u>Prepared</u>	Date Analyzed	Sample <u>Amount</u>	Dilution Factor	<u>Analyst</u>	Method	
			11/23/02	1	1	СК	8015M	
		Parameter		Result mg/kg		RL		
		GRO, C6-C12		<10.0		10.0		
		DRO, >C12-C35		<10.0		10.0		
		TOTAL, C6-C35	······································	<10.0		10.0		
		Surroga	ites	% Recovered	QC Lin	its (%)		
		1-Chlorooct	ane	105%	70	130		
· .		1-Chlorooct	adecane	98%	70	130		
			8021E	B/5030 BTEX				
	Method	Date	Date	Sample	Dilution			
	<u>Blank</u> 0003876-02	Prepared	<u>Auslyzed</u> 11/25/02 2:52	<u>Amount</u> 1	Factor 25	<u>Analyst</u> CK	Method 8021B	
		Parameter		Result mg/kg		RL		
		Benzene		<0.025		0.025		
		Ethylbenzene		<0.025		0.025		
		Toluenc	······································	<0.025		0.025		
		p/m-Xylenc		<0.025		0.025		
		o-Xylene		<0.025		0.025		
		L						
		Surrogates		% Recovered Q		nits (%)		
		Surrog	ares	70 ACCOVERCE				
		Surrog aaa-Toluen		88%	80	120		

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#### ANALYTICAL REPORT

MR. STEVE TISCH ARCADIS GERAGH 1004 N. BIG SPRING MIDLAND, TX 797	ITY & MILLER, I G STREET	INC.		Order#: Project: Project Name Location:	Non MT	05083 c Given 000764.0001 Eunice / NM	
Lab ID:	0205083-19						
Sample ID:	SB-4 (2')						
				8015M			
	Method	Date	Date	Sample	Dilutio		
	Blank	Prepared	Analyzed	Amount	Factor		Method
			11/23/02	1	1.	СК	8015M
		Parameter		Result mg/kg		RL	]
	Ì	GRO, C6-C12		<10.0		10.0	1
		DRO, >C12-C3	5	33.3	+	10.0	1
		TOTAL, C6-C3		33.3		10.0	-
	,		·····				-
		Surrog	ates	% Recovered	QC LI	mits (%)	
		1-Chlorood		100%	70	130	
		1-Chlorood	tadecane	94%	70	130	
			8021E	B/5030 BTEX			
	Method	Date	Date	Sample	Dilutio		•
	Biank	Prepared	Analyzed	Amount	Facto		Method
	0003876-02		11/25/02 3:11	1	25	СК	8021B
		Parameter		Resul mg/kg		RL	
		Benzene		<0.02	5	0.025	-
		Ethylbenzene	· · · · · · · · · · · · · · · · · · ·	<0.02	5	0.025	
		Toluene		<0.02		0.025	4
		p/m-Xylene		<0.02		0.025	-
		o-Xylene		<0.02	<u>s</u>	0.025	
		Surro	gates	% Recovered	QC L	imits (%)	
		aaa-Tolue		84%	80	120	
		Bromofluc	probenzene	94%	80	120	

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#### ANALYTICAL REPORT

MR. STEVE TIS ARCADIS GER 1004 N. BIG SPH MIDLAND, TX	AGHTY & MILLER, 1 UNG STREET	INC.		Order#: Project: Project Name Location:	Non e: MT(	05083 e Given 100764.0001 Eunice / NM		
Lab (D: Secolo (D)	0205083-20							
Sample ID:	SB-4 (5')							
•				8015M				
	Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor		Method	
	Diana	Tioparoa	11/22/02	1	1	CK	8015M	
		Parameter		Resul	· .	RL		
		GRO, C6-C12	<u> </u>	mg/kg <10.0		10.0		
		DRO, >C12-C35		<10.0		10.0		
		TOTAL, C6-C35		<10.0		10.0		
		,	·	·				
		Surroga	ates	% Recovered	QC Lin	nits (%)		
		1-Chlorooct	tane	112%	70	130		
		1-Chloroocl	ladecane	104%	70	130		
			8021E	8/5030 BTEX	•			
	Method	Date	Date	Sample	Dilutio			
	<u>Blank</u>	Prepared	<u>Analyzed</u> 11/25/02	Amount	Factor	<u>Analyst</u> CK	Method	
	0003876-02		3:30	i	25	UK .	8021B	
		Parameter	·	Resul mg/kg		RL		
		Benzenc		<0.02	5	0.025		
		Ethylbenzene		<0.02		0.025		
		Toluene		<0.02		0.025		
		p/m-Xylene		<0.02		0.025		
		o-Xylene		<0.02	<u> </u>	0.025	ļ	
		Surrog	Surrogates		QC Li	mits (%)		
		aaa-Toluer		82%	80	120		
		Bromofluor	robenzene	88%	80	120		
	·							

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#### ANALYTICAL REPORT

MR. STEVE TISCHER	Order#:	G0205083	
ARCADIS GERAGHTY & MILLER, INC.	Project:	None Given	
1004 N. BIG SPRING STREET	Project Name:	MT000764.0001	
MIDLAND, TX 79701	Location:	Key Eunice / NM	

Lab ID:	0205083-23
Sample ID:	TRIP BLANK

8021B/5030 BTEX

Method Blank 0003877-02

		-
Date	Sample	Dilution
nalyzed	Amount	Factor

Ł

Prepared	Analyzed
	11/23/02

Date

14:51

Analyst	Method
СК	8021B

1

Ю21B

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Parameter	Result mg/L	RL		
Benzene	<0.001	0.001		
Ethylbenzene	<0.001	0.001		
Toluene	<0.001	0.001		
p/m-Xylene	<0.001	0.001		
o-Xylene	<0.001	0.001		

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	86%	80	120
Bromofluorobenzene	87%	80	120

12-02-02 al ama Approval: 1 Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

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### ANALYTICAL REPORT

MR. STEVE TISCHER ARCADIS GERAGHTY & MILLER, INC. 1004 N. BIG SPRING STREET MIDLAND, TX 79701			Order#: Project: Project Nai Location:	Nor ne: MT	205083 1e Given 000764.0001 7 Eunice / NM			
Lab 1D: 0205083-06 Sample 1D: SB-1 (20')	•							
METALS RCRA 7 Total			-			_		
	D	T In the	Dilution	Dr	N. 0. 1	Date	Date	
Parameter	Result	Units	Factor	<u>RL</u>	Method	Prepared	Analyzed	Analys
Arsenic	< 0.40	mg/kg	50	0.40	3050/6010B	11/24/2002	11/26/02	SM
Barium	196	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Cadmium	0.677	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Chromium	4.35	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Lead	< 0.550	mg/kg	50	0.550	3050/6010B	11/24/2002	11/26/02	SM
Selenium	< 0.20	mg/kg	50	0.20	3050/6010B	11/24/2002	11/26/02	SM
Silver .	< 0.10	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Test Parameters			Dilution			Date	Date	
Parameter	Result	Units	Factor	RL	Method	Prepared	Analyzed	Analys
Mercury, Total	< 0.10	mg/kg	50	0.10	7470	11/23/2002	11/24/02	SM
Lab ID: 0205083-07								• • • • • • • • •
Sample ID: SB-1 (25')	-							
-								
METALS RCRA 7 Total		<b>.</b>	Dilution	~ *		Date	Date	
Parameter	Result	Units	Factor	<u>RL</u>	Method	Prepared	Analyzed	
Arsenic	< 0.40	mg/kg	50	0.40	3050/6010B	11/24/2002	11/26/02	SM
Barium	98.3	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Cadmium	0.652	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Chromium	4.29	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Lead	1.09	mg/kg	50	0.550	3050/6010B	11/24/2002	11/26/02	SM
Selenium	< 0.20	mg/kg	50	0.20	3050/6010B	11/24/2002	11/26/02	SM
Silver	< 0.10	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Test Parameters			Dilution			Date	Date	
Parameter	Result	Units	Factor	RL	Method	Prepared	Analyzed	Analys
Mercury, Total	< 0.10	mg/kg	50	0.10	7470	11/23/2002	11/24/02	SM
Lab ID: 0205083-11 Sample ID: SB-2 (10')		 	· · · ·					
METALS RCRA 7 Total			Dilution			Date	Date	
Parameter	Result	Units	Factor	RL	Method	Prepared	Analyzed	Analys
Arsenic	1.72	mg/kg	50	0.40	3050/6010B	11/24/2002	11/26/02	SM
Barium	130	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Cadmium	0.431	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Chromium	2.48	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Lead	< 0.550	mg/kg	50	0.550	3050/6010B	11/24/2002	11/26/02	SM
· · · · · ·								
Selenium	< 0.20	mg/kg	50	0.20	3050/6010B	11/24/2002	11/26/02	SM

N/A = Not Applicable RL = Reporting Limit

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#### ANALYTICAL REPORT

	AGHTY & MILLER, INC. RING STREET			Order#: Project: Project Nat Location:	Noi ne: MT	205083 ne Given 1000764.0001 y Eunice / NM			
Lab ID: Sample ID:	0205083-11 SB-2 (10')					·			
Test Paran	neters	<b>N</b> 14	<b></b>	Dilution	19 X		Date	Date	
Parameter Mercury, Tota	al .	<u>Result</u> < 0.10	<u>Units</u> mg/kg	<u>Factor</u> 50	<u>RL</u> 0.10	<u>Method</u> 7470	Prepared 11/23/2002	Analyzed 11/24/02	<u>Analyst</u> SM
Lab ID: Sample ID:	0205083-12 SB-2 (15')				99 haaraan amaa ahaa ahaa				
METALS	RCRA 7 Total			Dilution			Date	Date	
Parameter		Result	Units	Factor	RL	Method	Prepared	Analyzed	Analyst
Arsenic		1.41	mg/kg	50	0.40	3050/6010B	11/24/2002	11/26/02	SM
Barium		559	mg/kg	500	0.50	3050/6010B	11/24/2002	11/26/02	SM
Cadmium		0.543	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Chromium		3.42	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Lead		0.760	mg/kg	50	0.550	3050/6010B	11/24/2002	11/26/02	SM
Selenium		< 0.20	mg/kg	50	0.20	3050/6010B	11/24/2002	11/26/02	SM
Silver		< 0.10	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Test Paran	neters			Dilution			Date	Date	
Parameter	·····	Result	Units	Factor	<u>RL</u>	Method	Prepared	Analyzed	Analys
Mercury, Tota	al	< 0.10	mg/kg	50	0.10	7470	11/23/2002	11/24/02	SM
Lab ID: Sample ID:	0205083-15 SB-3 (2')								
METALS	RCRA 7 Total			Dilution			Date	Date	
Parameter		Result	Units	Factor	<u>RL</u>	Method	Prepared	Analyzed	Analys
Arsenic		1.32	mg/kg	50	0.40	3050/6010B	11/24/2002	11/26/02	SM
Barium		522	mg/kg	500	0.50	3050/6010B	11/24/2002	11/26/02	SM
Cadmium		0.606	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Chromium		3.58	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Lead		4.57	mg/kg	50	0.550	3050/6010B	11/24/2002	11/26/02	SM
Selenium		< 0.20	mg/kg	50	0.20	3050/6010B	11/24/2002	11/26/02	SM
Silver		< 0.10	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Test Para	meters			Dilution			Date	Date	
Parameter	· · · · · · · · · · · · · · · · · · ·	<u>Result</u>	Units	Factor	<u>RL</u>	Method	Prepared	Analyzed	Analys
Mercury, Tot	tal	< 0.10	mg/kg	50	0.10	7470	11/23/2002	11/24/02	SM

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## ANALYTICAL REPORT

MR. STEVE TISCHER ARCADIS GERAGHTY & MILLER, INC. 1004 N. BIG SPRING STREET MIDLAND, TX 79701			Order#: Project: Project Nan Location:	l ne: 1	G0205083 None Given MT000764.0001 Key Eunice / NM			
Lab 1D: 0205083-16 Sample 1D: SB-3 (5')					······································			
METALS RCRA 7 Total	<b>`</b>		Dilution			Date	Date	
Parameter	Result	Units	Factor	<u>RL</u>	Method	Prepared	Analyzed	Analyst
Arsenic	2.92	mg/kg	50	0.40	3050/6010B	11/24/2002	11/26/02	SM
Barium	216	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Cadmium	0.758	mg/kg	50	0.050	3050/6010B	11/24/2002	11/26/02	SM
Chromium	3.5	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Lead	0.70	mg/kg	50	0.550	3050/6010B	11/24/2002	11/26/02	SM
Selenium	< 0.20	mg/kg	50	0.20	3050/6010B	11/24/2002	11/26/02	SM
Silver	< 0.10	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Test Parameters	<b>V</b>	••••	Dilution			Date	Date	
Parameter	Result	Units	Factor	<u>RL</u>	Method	Prepared	Analyzed	Analysi
Mercury, Total	< 0.10	mg/kg	50	0.10	7470	11/23/2002	11/24/02	SM
Lab ID: 0205083-19 Sample ID: SB-4 (2')								<u> </u>
METALS RCRA 7 Total			Dilution			Date	Date	
Parameter	Result	Units	Factor	RL	Method	Prepared	Analyzed	Analys
Arsenic	0.945	mg/kg	50	0.40	3050/6010B	11/24/2002	11/26/02	SM
Barium	169	mg/kg	50	0.050		11/24/2002	11/26/02	SM
Cadmium	0.682	mg/kg	50	0.050		11/24/2002	11/26/02	SM
Chromium	3,88	mg/kg	50	0.10		11/24/2002	11/26/02	SM
Lead	6.14	mg/kg	50	0.550	3050/6010B	11/24/2002	11/26/02	SM
Selenium	< 0.20	mg/kg	50	0.20	3050/6010B	11/24/2002	11/26/02	SM
Silver	< 0.10	mg/kg	50	0.10	3050/6010B	11/24/2002	11/26/02	SM
Test Parameters			Dilution			Date	Date	
Parameter	Result	Units	Factor	<u>RL</u>	Method	Prepared	Aualyzed	Analys
Mercury, Total	< 0.10	mg/kg	50	0.10		11/23/2002	11/24/02	SM
Lab ID; 0205083-20 Sample ID: SB-4 (5')								
METALS RCRA 7 Total	<b>n</b> . "	¥1. •·	Dilution		<b>1</b> / - 1 · ·	Date	Date	A 1 ··
Parameter	Result	Units	Factor	RL	<u>Method</u>	Prepared	Analyzed	
Arsenic	2.06	mg/kg	50	0.40		11/24/2002	11/26/02	SM
Barium	169	mg/kg	50	0.050		11/24/2002	11/26/02	SM
Cadmium	0.433	mg/kg	50	0.050		11/24/2002	11/26/02	SM
Chromium	1.95	mg/kg	50 50	0.10		11/24/2002	11/26/02	SM
Lead	1.68	mg/kg	50 50	0.550		11/24/2002	11/26/02	SM SM
Scientum	< 0.20 < 0.10	mg/kg mg/kg	50 50	0.20 0.10		11/24/2002 11/24/2002	11/26/02 11/26/02	SM SM
Silver	<b>V.</b> 10	mg/Kg	50	0.10	- 3030/0010B	11/24/2002	1120102	અભ
N/A = Not Applicable	RL = Reporting Limit						I	age 3 of 4
ENVIRONMENTAL L	AB OF TEXAS L LTD	17.6	00 West 1_20	Eget.	Odessa, TX 797	65 Ph- 014	-563-1800	

#### ANALYTICAL REPORT

	RAGHTY & MILLER, INC. PRING STREET			Order#: Project: Project Name Location:	No : Mi	205083 ne Given 1090764.0901 y Eunice / NM			
Lab ID: Sample ID:	0205083-20 SB-4 (5')								
Test Paran Parameter	meters	Result	Units	Dilution <u>Factor</u>	<u>RL</u> .	Method	Date Prepared	Date <u>Analyzed</u>	<u>Analyst</u>
Mercury, Tot	al	< 0.10	mg/kg	50	0.10	7470	11/23/2002	11/24/02	SM

Approval: Kalandk Juli 12-02-02 Date

Raland K. Tuttle, Lab Director, QA Officer Celcy D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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#### ANALYTICAL REPORT

	AGHTY & MILLER, INC. RING STREET		Order# Project Project Locatio	i Name:	G0205083 None Given MT000764.0 Key Eunice /			
Lab ID: Sample ID:	0205083-06 SB-1 (20')							
Test Paran Parameter	neters	<u>Result</u>	Units	Dilutio Factor		Method	Date Analyzed	Analyst
Chloride		L060 ·	mg/kg	I	20	9253	11/25/02	SB
Lab ID:	0205083-12	······································					<u></u>	
Sample ID:	SB-2 (15')							
Test Paran Parameter	neters	Result	Units	Dilutio <u>Facto</u>		Method	Date Analyzed	Analyst
Chloride		1660	mg/kg	1	20	9253	11/25/02	SB
Lab ID: Sample ID:	0205083-16 SB-3 (5')							
Test Paran Parameter	neters	<u>Result</u>	Units	Dilutio <u>Facto</u>		Method	Date Analyzed	Analyst
Chloride		2390	mg/kg	1	20	9253	11/25/02	SB
Lab ID: Sample ID;	0205083-20 SB-4 (5')	<u></u>				<u></u>		
Test Paral Parameter	meters	Result	Units	Dilutio <u>Facto</u>	-	Method	Date Analyzed	<u>Analyst</u>
Chloride		4520	mg/kg	1	20	9253	11/25/02	SB

Approval: <u>Raland K Julu</u> Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director 12-02-02 Date

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Page 1 of 1

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable ENVIRONMENTAL LAB OF TEXAS I, LTD.

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## QUALITY CONTROL REPORT

8015M

Order#: G0205083

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003857-02	·····		<10.0		
TOTAL, C6-C35-mg/kg		0003870-02			<10.0	<u> </u>	
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003870-03		952	1160	121.8%	······································
CONTROL DU	P	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pet (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003870-04		952	1240	130.3%	6,7%
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0205083-20	0	952	1020	107.1%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0205083-20	0	952	1020	107.1%	0.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Conceptr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003857-05		1000	983	98.3%	
TOTAL, C6-C35-mg/kg		0003870-05		1000	956	95.6%	

ENVIRONMENTAL LAB OF TEXAS I, LTD.

#### QUALITY CONTROL REPORT

#### 8021B/5030 BTEX

Order#: G0205083

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BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003876-02			<0.025		
enzene-mg/L		0003877-02			<0.001		
Ethylbenzene-mg/kg	······	0003876-02			<0.025	·	
Ethylbenzene-mg/L.		0003877-02			<0.001		·
foluenc-mg/kg		0003876-02			<0.025		
l'oluene-mg/L	<u></u>	0003877-02			<0.001		
/m-Xylene-mg/kg		0003876-02			<0.025		
/m-Xylene-mg/L		0003877-02			<0.001		
-Xylenc-mg/kg		0003876-02	······································		<0.025		
-Xylene-mg/L		0003877-02			<0.001		
CONTROL	LIQUID	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
enzene-mg/L		0003877-03		0.1	0.096	96.%	
thylbenzene-mg/L		0003877-03		0.1	0.101	101.%	
oluene-mg/L		0003877-03		0.1	0.099	99.%	
/m-Xylene-mg/L		0003877-03		0.2	0.214	107.%	
-Xylene-mg/L		0003877-03		0.1	0.102	102.%	· · · · · · · · · · · · · · · · · · ·
CONTROL DU		LAB-1D #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0003877-04		0.1	0.096	96.%	0.%
Ethylbenzene-mg/L		0003877-04		0.1	0.099	99.%	2.%
Foluenc-mg/L		0003877-04		0.1	0.098	98.%	1.%
/m-Xylene-mg/L	-	0003877-04		0.2	0.21	105.%	1.9%
>-Xylene-mg/L		0003877-04		0.1	0.101	101.%	1.%
MS	SOIL	LAB-JD#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0205083-20	0	0.1	0.106	106.%	
Ethylbenzene-mg/kg		0205083-20	0	0.1	0.112	112.%	
foluene-mg/kg		0205083-20	0	0.1	0.112	112.%	
p/m-Xylene-mg/kg		0205083-20	0	0.2	0.229	114.5%	
o-Xylene-mg/kg		0205083-20	0	0.1	0.112	112.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr,	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0205083-20	0	0.1	0.103	103.%	2.9%
Ethylbenzene-mg/kg		0205083-20	0	0.1	0.111	111.%	0.9%
Foluene-mg/kg		0205083-20	0	0.1	0.108	108.%	3.6%
p/m-Xylene-mg/kg		0205083-20	0	0.2	0.225	112.5%	1.8%
o-Xylene-mg/kg		0205083-20	0	0.1	0.111	111.%	0.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003876-05		0.1	0.101	101.%	

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

## QUALITY CONTROL REPORT

#### 8021B/5030 BTEX

Order#: G0205083

SRM	LAB-ID #	Sample Concentr.	Spike Coacentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-ing/L	0003877-05		0.1	0.096	96.%	
Ethylbcazene-mg/kg	0003876-05		0.1	0.106	106.%	
Ethylbenzenc-mg/L	0003877-05		0.1	0.099	99.%	
Tolaene-mg/kg	0003876-05		0.1	0.104	104.%	<u> </u>
Toluene-mg/L	0003877-05		0.1	0.097	97.%	
p/m-Xylene-mg/kg	0003876-05		0.2	0.226	113.%	
p/m-Xylene-mg/L	0003877-05		0.2	0.213	106.5%	
o-Xylene-mg/kg	0003876-05		0.1	0.108	108.%	
o-Xylene-mg/L	0003877-05		0.1	0.1	100.%	

#### QUALITY CONTROL REPORT

**METALS RCRA 7 Total** 

Order#: G0205083

BLANK SOIL	LAB-1D #	Sample Concentr.	Spike Conceptr.	QC Test Result	Pct (%) Recovery	RPD
Lrsenic-mg/kg	0003899-02			< 0.40		
Barium-mg/kg	0003899-02			< 0.050	11	
Cadmium-mg/kg	0003899-02			< 0.050		
Chromium-mg/kg	0003899-02			< 0.10		
.cad-mg/kg	0003899-02			< 0.55	1	
Selenium-mg/kg	0003899-02			< 0.20	<u> </u>	
Silver-mg/kg	0003899-02	······································		< 0.10		
CONTROL SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic-mg/kg	0003899-03	······································	40	35.7	89.3%	
Barium-mg/kg	0003899-03		10	10.8	108.%	
Cadmium-mg/kg	0003899-03		10	9.74	97.4%	
Chromium-mg/kg	0003899-03		10	10.3	103.%	
_ead-mg/kg	0003899-03	·····	50	52.1	104.2%	• .
Selenium-mg/kg	0003899-03	· _ · · · · · · · · · · · · · · · · · ·	20	20.3	101.5%	
Silver-mg/kg	0003899-03		2.5	2.64	105.6%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic-mg/kg	0003899-04	· · · · · · · · · · · · · · · · · · ·	40	35.5	88.7%	0.6%
Barium-mg/kg	0003899-04		to	10.8	108.%	0.%
Cadmium-mg/kg	0003899-04		10	9.74	97.4%	0.%
Chromium-mg/kg	0003899-04		10	10.3	103.%	0.%
.ead-mg/kg	0003899-04		50	52.0	104.%	0.2%
Selenium-mg/kg	0003899-04		20	20.3	101.5%	0.%
Silver-mg/kg	0003899-04		2.5	2.34	93.6%	12.%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic-mg/kg	0003899-05		1	1.05	105.%	
Barium-mg/kg	0003899-05		1	1.08	108.%	
Cadmium-mg/kg	0003899-05		1	1.07	107.%	
Chromium-mg/kg	0003899-05		1	1.04	104.%	
Lead-mg/kg	0003899-05		1	1.04	104.%	
Sclenium-mg/kg	0003899-05		1	1.04	104.%	
Silver-mg/kg	0003899-05		0.5	0.546	109.2%	

## QUALITY CONTROL REPORT

**Test Parameters** 

Order#: G0205083

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	·	0003885-01			<20.0	1	
Mercury, Total-mg/kg		0003864-01	*** -*** _***		< 0.10		· · · · · · · · · · · · · · · · · · ·
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0205083-06	1060	1250	2300	99.2%	
Mercury, Total-mg/kg		0204993-20	0.109	1	1.10	99.1%	
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloridc-mg/kg	:	0205083-06	1060	1250	2280	97.6%	0,9%
Mercury, Total-mg/kg		0204993-20	0.109	1	1.14	103.1%	3.6%
SRM	SOIL	1.AB-10 #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003885-04	· · · · · · · · · · · · · · · · · · ·	5000	4960	99.2%	
Mercury, Total-mg/kg		0003864-04		0.75	0.700	93.3%	

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	<b>Generation</b>		Labora	Laboratory Task Or	Order No.	der No./P.O. No		CHAI	N-OF-CU	ςτοργ	CHAIN-OF-CUSTODY RECORD	Page /	of Z
	Project Number/Name M7	7000	-000-194.000-	8				ANALYSIS	ANALYSIS / METHOD / SIZE	SIZE			
	Project Location KEY EUNICE /	MICE +	LNN.	EXAS		0.31		، بر					
	Project Manager S. 715	ISCHER			A S	X	No Contraction						
	Sampler(s)/Affiliation D.	M. NEESE	EESE		08	en la	5-0	de S	es s				
	0205083 sample IDAccation M	Matrix	Date/ <del>Thre</del> Sampled	THME	ta a	30 441		ore contraction	is a lo		Remarks	Ŕ	Total
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す	58-1 (10')			0955	HOUD -			~					
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6	58-1/251)			1050	7	7	7	στοΗ					
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	58-2 (10')			1313	7	7	7						
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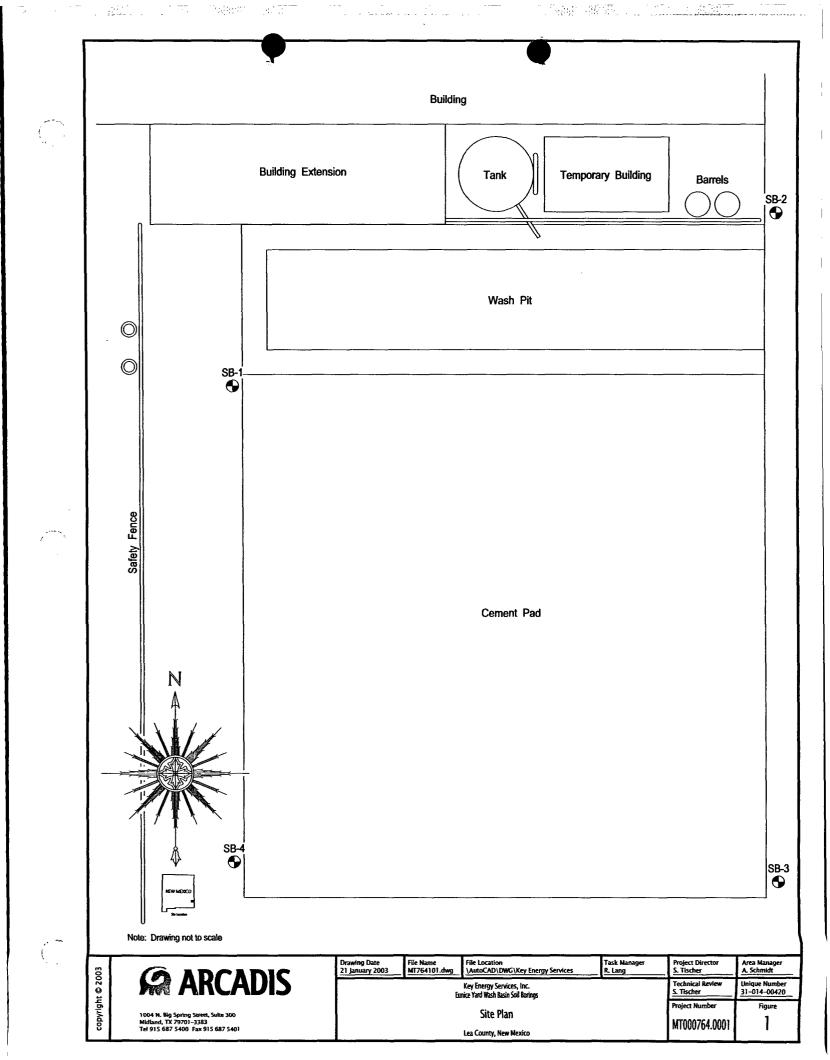
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TODY RECORD Page Z of Z			Remarks Total										Total No. of Bottles/ Containers	LOZ Time 1/100 Seal Intact?	Time Seal Intact?	off Off ar Dother
CHAIN-OF-CUSTODY RECORD		IN CONTROL ON THE CONTROL OF CONT	1 Loc		1 - Horo	1								AKCADIS Date 1/1201	Date 1 1	JURSS BURNELLON
Laboratory Task Order No./P.O. No.	X4X	NCHER MCNEESE	Matrix Sampled table &		2 10291 S		1630	2 11-19-02 1650 HOLD	X				d; $S = \beta_{olid}; A = Air$	Un Almu Organization:	Organization:	1 Person
ARCADIS	Project Number/Name <u>MT D.O.764.000/</u> Project Location <u>KEY Euric E / NM</u> Laboratory <u>Environmental</u> LABS of <u>T</u> 6	Project Manager <u>S、T</u> Sampler(s)/Affiliation <u>ひ・</u> へて0万0ダス	Sample ID/Location	58-3 (10-1	18 58-4 (0-9")	58-4 (	N 58-4 (10')	20 58-4 (15')	V Trip BLANK	W Tomp Blank			Sample Matrix: L =iquid;	Relinquished by:	Relinquished by: Received by:	ons/Remark thod:

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Eunice, NM 04-15-02

Ms. Jennifer Salsibury Director of New Mexico State Oil Conservation Department 1220 S. St Francis Dr. Santa Fe, NM 89051 OIL CONSERVATION DIV

Ms. Salsibury,

In recent conservation with State Senator Carroll H. Leavell, we discussed a neighborhood concern. He asked me to write you, that perhaps you could help regarding the following problems. When we purchased our home at 1310 20<sup>th</sup> St. Eunice, NM in January 1991, we knew of the small trucking company just ½ block west from our home and at that time we had only the normal amount of blowing sand that's prevalent in SE New Mexico.

Then 2 years later this trucking company was sold to the Rowland Company, who expanded this lot to approximately ¼ block area, with about 15 trucks. That's when the blowing dust started to reach our homes and became a problem. At this time 42 neighbors (within a 4 block area of this truck lot) all signed a letter to the Rowland Company asking them for their help in containing this increased sand and dust if possible.

Their safety officer informed us that they would pave the lot if would all chip in the \$50,000. Which was of course impossible for a group of retirees on fixed incomes. Shortly thereafter, the truck lot was again sold to Key Energy Services, who promptly expanded the lot to 3⁄4 block area, added about 20 more trucks. Then covered the lot with caliche dirt. As a result of this every time a truck moved on this lot a cloud of caliche fog was stirred up and blew our way to cover decks, porches, cars and everything outside. Also this lot now has an open pit into which they dump the sour crude oil sludge mixed with an H25 gas residue as they clean out the trucks and tanks. We wrote to Key Energy Services in Midland, TX asking for some relief, to no avail, their letter promised to water/spray the dirt lot when the wind was blowing heavily, but they don't, especially on weekends.

We asked to city council person to intercede, but there was no response. After calling the Environmental Department in Roswell, NM, a Mr. William Huber came by and said that what they were doing was legal. So now we ask for your help to try and improve our guality of life at least to the original level.

It is impossible to keep this dust and horrendous odor from permeating our homes, clothes and cars. To say nothing of the retirees with emphysema, asthma and allergies, who suffer with breathing problems please, if you can help we would be very grateful. See attached letters.

Sincerely,

May Josto

M.A. Motes And all signers of the letter

c.c. Senator Carroll H. Leavell Mayor Brown-Eunice Key Energy Services, Inc. We, the undersigned, respectfully request that immediate attention be given to the problem of the dust crocted by the parking lot surrounding Rowland Trucking Co. Because of the blowing dust on windy days, it is extremely hard to breathe (especially for those with breathing problems), and the damage done by the dirt and dust that permeates the houses and cars within a four to five block area of this lot must be acknowledged. House keeping is absolutely impossible and the quality of life in this area is greatly diminished due to this dust. Listed below is a spray that can be used to permanently stop the dust from blowing off of this lot into the surrounding area and we ask that the Rowland Trucking Co. get and use this material as soon as possible.

Magnesium choloride, Cost aprrox. 38¢ gal. 1 gallon covers 7 square yards. MOuntain State Chemical: Farmingon, N.M. EPA approved

1310-20th Eunice N.M. ma moats linne moats 1310 - 20th Susie Espiño 1320-20th Eunice 1721 Map Espine 1320-20th Earlie Nm How Connel 1321 20th Gunice, 71. 111. mon & Emily Navente 1323 20th Emice Fail & Lucille Barera 1324 20Th Essice N.M. Eddie Massey 1309 20the Guince Minut. Tom Selleichen 1308 with Cindy Schleicher 1308 20th Eurice NM ( well & Brate 1307 Doth Eunicenm Konnie Incie 1304 30 Eunice. Dennis & Linder Call 1305 19th & Eurice Quith Brock 1310 19th St Hay Briell 1308/9th St. Eunice. MM La Brock 1310 19thest Eurice N.m. Maluliael Brock 1308 19th Eunice N.M. unt Black 1309 19th EURICE N. M. While Blake 1309 19th Eurice NM

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Key Energy Services, Inc. Eastern New Mexico Division 2105 Avenue O P.O. Box 99 Eunice, NM 88231

Phone: 505-394-2581 Fax: 505-394-2584

631-7577

June 4, 1999

Mrs. M. A. Moats 1310 20<sup>th</sup> Street P.O. Box 1507 Eunice, NM 88231

Dear Mrs. Moats,

I received your letter from the Corporate Office of Key Energy Services, Inc. I appreciate you taking the time and effort to correspond with them. I have lived in Eunice almost all my life and I certainly understand the dust is a constant problem; I also realize that the wind is not always the culprit. I cannot change what has taken place in the past; however, I can have an effect on the future. I have issued instructions to all drivers to keep their speed slow enough that it will not stir up dust. I've instructed the dispatcher to promptly water the yard during high wind times. I will monitor the weather channel and when high winds are forecasted, the yard will be watered before the wind begins to blow. Key Energy Services, Inc. will strive to be a good neighbor. In the future, please feel welcome to stop by the office and visit or call.

Sincerely.

**Bob** Patterson **District Manager** 

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Oil Conservation Dept 12205. 5t. Francis Dr. Santa Fe N.M. 89051

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