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GENERAL CORRESPONDENCE

YEAR(S): 2000 ~ 1 9 9 8



December 8, 2000

VIA FACSIMILE: (505) 827-8177

Mr. Wayne Price Petroleum Engineer Specialist New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 2040 S. Pacheco Santa Fe, New Mexico 87505

Re: Scope of Work for Continued Investigation, D. F. Fergason Lease, NE/4 Quarter, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico

1R0251

12:41

STRVATION DRUGUE

Dear Mr. Price:

Texaco Exploration and Production Inc. (Texaco) has retained Larson & Associates, Inc. (LA) to prepare a scope of work for continued investigation of a former emergency overflow pit (Site), located at the D. F. Fergason Lease near Hobbs, New Mexico. The Site is located approximately 2 miles east of Hobbs, New Mexico, and is situated in the northeast quarter (NE/4), Section 30, Township 18 South, Range 39 East, Lea County, New Mexico.

Investigations were performed on behalf of Texaco at the Site during April 1997 and May 1999. Soil samples were collected from six (6) shallow hand borings advanced to approximately 2.5 feet below ground surface (BGS) during the April 1997 investigation. Soil samples were collected from eleven (11) rotary-drilled borings advanced from 20 to 53 feet BGS during the May 1999 investigation. The investigation results were reported to the New Mexico Oil Conservation Division (NMOCD) on June 3, 1999, in a report titled, "Pit Closure Investigation Report, Texaco Exploration and Production Inc., D.F. Fergason Lease (J.C. Turner Property), Former Emergency Pit, Northeast Quarter, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico".

During a meeting on June 14, 2000, the NMOCD verbally requested Texaco to conduct additional investigation near the southwest corner of the Site. This letter is intended to fulfill that request. A Memorandum of Meeting or Conversation issued by the NMOCD on June 14, 2000, stated that the additional investigation was needed near the <u>southeast</u> corner of the Site. If I am mistaken about the location of the additional investigation, please let me know.

Piper Surveying Company was requested by Texaco to locate the former emergency pits using aerial photographs, landmarks and property boundaries. Figure 1 presents the location of the emergency pits, property boundaries and former borings. Figure 1 suggests that one of the former pits may have extended west of the J. C. Turner property, near the southwest corner of the Site. Upon entering the

Mr. Wayne Price December 8, 2000 Page 2

Site the surveyor will stake the corners of the westernmost pit. Three additional borings will be drilled in the area of the pit at the approximate locations shown on Figure 1.

The borings will be drilled using a truck-mounted air-rotary drilling rig. Each boring will be continuously cored for a minimum of 20' with soil samples collected every two feet using a split-spoon or core sampler. The recovered core for each sampled interval will be photographed and then split approximately $\frac{1}{4} \times \frac{1}{4} \times \frac{1}{2}$. One quarter of the core will be used to fill a clean glass sample jar that is sealed with a Teflon lined cap. The sample jar will then be labeled, chilled in an ice chest, and delivered under chain-of-custody control to the laboratory. The second quarter of the core will be placed in a clean glass sample jar sealed with aluminum foil and set aside to warm up to ambient temperature for field-screening for petroleum hydrocarbons. The remainder of the core will be available for split samples, etc. The field screening for petroleum hydrocarbons will utilize the Ambient Temperature Headspace (ATH) method. The concentration of organic vapors in the sample jar will be recorded in parts per million (ppm) using a photoionization detector (PID). The probe of the PID will be inserted into the headspace of the jar (through the aluminum foil) after the sample has reached ambient temperature (approximately 15 minutes). The PID will be calibrated prior to use.

All samples collected from the boring closest to the center of the staked area will be submitted to the laboratory for analysis. The soil sample exhibiting the highest headspace gas reading and the deepest sample, as well as any other samples with apparent highly visible contamination, from each of the other two borings will also be submitted for analysis.

The NMOCD, in accordance with its guidelines ("Guidelines for Unlined Surface Impoundment Closure, February 1993"), allows a PID measurement of less than 100 ppm to be substituted for laboratory analysis of benzene and total BTEX. Using this field screening method the borings will be drilled to a depth where the PID reading is less than 50 ppm or 20', whichever is greater. All samples will be analyzed for total petroleum hydrocarbons (method 8015B), chlorides, and BTEX (method 8260B).

The borings will be filled with portland cement and bentonite grout, and soil cuttings will be placed adjacent to the borings until disposal is arranged, if necessary. All down-hole equipment (i.e., drilling rods, bit, etc.) will be thoroughly decontaminated between each use with high-pressure hot water. All soil sampling equipment (i.e., split-spoon sampler, core sampler, etc.) will be thoroughly washed between events with potable water and laboratory-grade detergent, and rinsed with distilled water.

A report and remediation plan will be prepared following receipt of the laboratory reports. Texaco will provide the NMOCD with 48 hours notice prior to conducting the investigation. Please call Mr. Robert Patterson with Texaco at (915) 688-4836 or myself at (915) 687-0901 if you have questions.

Mr. Wayne Price December 8, 2000 Page 3

Respectfully yours, Larson & Associates, Inc.

Mark J. Larson, CPG, CGWP President

Encl.

cc: Mr. Robert Patterson Mr. Chris Williams

2501 Learmont Drive & Midland, Texas 79705 & Ph. (915) 687-0901 & Fax (915) 687-0456



结正 计同时代文字 网络

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From:	Price, Wayne
Sent:	Friday, October 27, 2000 3:21 PM
То:	'Patterson, Robert H '
Subject:	RE: address

Thanks! I discussed the Texaco- Ferguson plan with Mark Larson. OCD would like to see the sampling technique change, our normal procedure requires the sample to be placed directly into the sample jar and not into a bag to be mixed. Our experience is that you can lose volatiles that way. I would also like to see samples taken where there is highly visible contamination. Please re-submit the plan with these changes. If you have any questions please call me!

 From:
 Patterson, Robert H [SMTP:patterh@texaco.com]

 Sent:
 Friday, October 27, 2000 3:17 PM

 To:
 Price, Wayne

 Subject:
 address

My mailing address for now is:

Texaco Exploration and Production, Inc. P. O. Box 3109 Midland, Texas 79702

From:	System Administrator[SMTP:postmaster@texaco.com]
Sent:	Friday, October 27, 2000 3:25 PM
То:	Price, Wayne
Subject:	Delivered: RE: address



To: 'Patterson, Robert H ' Subject: RE: address Sent: Fri, 27 Oct 2000 16:21:21 -0500

was delivered to the following recipient(s):

Patterson, Robert H on Fri, 27 Oct 2000 16:25:22 -0500 MSEXCH:MSExchangeMTA:MSXUSA:MSX01021





TEL ANT THIS FOR LAST

October 10, 2000

Mr. Wayne Price Petroleum Engineer Specialist New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 2040 S. Pacheco Santa Fe, New Mexico 87505

Re: Scope of Work for Continued Investigation, D. F. Fergason Lease, NE/4 Quarter, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico

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Piper Surveying Company was requested by Texaco to locate the former emergency pit using aerial photographs, landmarks and property boundaries. Figure 1 presents the location of the emergency pit, property boundaries and former borings. Figure 1 suggests that the former pit may have extended west of the J.C. Turner property, near the southwest corner of the Site. Three additional borings will be drilled near the southwest corner of the Site, and west of the J.C. Turner property. The borings

2501 Learmont Drive & Midland, Texas 79705 & Ph. (915) 687-0901 & Fax (915) 687-0456

Mr. Wayne Price October 10, 2000 Page 2

will be drilled using a truck-mounted air-rotary drilling rig at the approximate locations shown on Figure 1. Soil samples will be collected approximately every 5 or 10 feet using a split-spoon or core sampler for field screening and possible laboratory analysis. Each sample will be collected in a clean plastic sample bag, mixed and immediately placed in a clean glass sample jar. The sample jars will be labeled, chilled in an ice chest, and delivered to the laboratory, under chain-of-custody control to the laboratory. The remainder of the sample will be retained in the sample bag, sealed and field-screened for petroleum hydrocarbons Ambient Temperature Headspace (ATH) method. The concentration of organic vapors in the sample bag headspace will be recorded in parts per million (ppm) using a photoionization detector (PID). The probe of the PID will be inserted into the headspace of the sample bag after the sample has reached ambient temperature (approximately 15 minutes). The PID will be calibrated prior to use, and the soil sample exhibiting the highest headspace gas reading and the deepest sample from each boring will be selected for laboratory analysis. The NMOCD, in accordance with its guidelines ("Guidelines for Unlined Surface Impoundment Closure, February 1993"), allows a PID measurement of 100 ppm to be substituted for laboratory analysis of benzene and total BTEX (sum of benzene, toluene, ethylbenzene and xylene). The samples will be analyzed for total petroleum hydrocarbon (TPH) by method 8015 (gasoline and diesel range hydrocarbons) and chloride. Samples exhibiting PID readings above 100 ppm will also be tested for BTEX by method. 8021B

The borings will be filled with portland cement and bentonite grout, and soil cuttings will be placed adjacent to the borings until disposal is arranged, if necessary. All down-hole equipment (i.e., drilling rods, bit, etc.) will be thoroughly decontaminated between each use with a high-pressure hot water. All soil sampling equipment (i.e., split-spoon sampler, core sampler, etc.) will be thoroughly washed between events with potable water and laboratory-grade detergent, and rinsed with distilled water.

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Respectfully yours, LARSON & Associates, Inc.

Mark J. Larson, CPG, CGWP President

Encl

cc: Mr. Robert Patterson



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11 H. O.

Leaven Hereiter



From:	Price, Wayne
Sent:	Friday, September 15, 2000 1:15 PM
To:	'patterh@texaco.com'; Price, Wayne
Subject:	RE: Texaco Ferguson Battery Pit Closure

From:Price, WayneSent:Friday, September 15, 2000 1:14 PMTo:'patterh@texaco.com'Subject:Texaco Ferguson Battery Pit Closure

Please find enclosed a copy of the memorandum of meeting held on 6-14-00.

OCD has not heard from Texaco on this matter. Please submit a plan to address the additional investigation work for the pit closure as discussed during our meeting. Please submit by October 16, 2000.

<<File: 6-14meet.doc>>

From:System Administrator[SMTP:postmaster@texaco.com]Sent:Friday, September 15, 2000 1:17 PMTo:Price, WayneSubject:Delivered: RE: Texaco Ferguson Battery Pit Closure



RE: Texaco Ferguson Battery Pit Closure

<<RE: Texaco Ferguson Battery Pit Closure>> Your message

To: 'patterh@texaco.com'; Price, Wayne Subject: RE: Texaco Ferguson Battery Pit Closure Sent: Fri, 15 Sep 2000 14:15:36 -0500

was delivered to the following recipient(s):

Patterson, Robert H on Fri, 15 Sep 2000 14:17:41 -0500 MSEXCH:MSExchangeMTA:MSXUSA:MSX01021

From: Sent: To: Subject: Price, Wayne Thursday, June 22, 2000 4:24 PM 'patterh@texaco.com' Minutes & Copy of photos from 6/14/00 meeting













Scan13.jpg



Scan15.jpg







Scan12.jpg

Scan5.jpg





Scan7.jpg



Scan2.jpg

Scan8.jpg



Scan9.jpg

Scan3.jpg

Scan4.jpg









NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

Memorandum of Meeting or Conversation

Telephone _____ Personal __X_ E-Mail ____

Time: 1 pm **Date:** 6-14-00

Originating Party: Texaco- Robert Patterson, Mark Larson - Highlander

Other Parties: Wayne Price, Bill Olson, Roger Anderson-OCD

Subject: Texaco Ferguson Battery Pit Closure

Discussion:

Texaco requested a meeting concerning pit closure investigation and closure plans. OCD presented investigation results from landowners. OCD requested Texaco to perform additional investigation of the SE area of the pit and present remediation plan for the on-site contamination. OCD copied Texaco on landowners findings.

Conclusions or Agreements:

Texaco requested time to discuss issue with their environmental consultant and attorneys. OCD will be notified in the near future concerning a plan to address the pit closure. OCD will E-mail pictures taken by landowners representative.

Signed:

CC: Robert Patterson-Texaco Mr. Bill Robins III OCD Hobbs Office



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

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Telephone _____ Personal ___X_ E-Mail ____

Time: 1 pm **Date:** 6-14-00

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Signed:

CC: Robert Patterson-Texaco Mr. Bill Robins III OCD Hobbs Office

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800 • 378 • 1296 806 • 794 • 1296 FAX 806 • 794 • 1298 4725 Ripley Avenue, Suite A 915•585•3443 El Paso, Texas 79922 888•588•3443 FAX 915•585•4944 E-Mail: lab@traceanalysis.com ANALYTICAL RESULTS FOR OCD Attention: Bill Olson 2040 S. Pacheco Prep Date: 11/08/99 November 8, 1999 Santa Fe, New Mexico 87505 Analysis Date: 11/08/99 Receiving Date: 10/16/99 Sampling Date: 10/15/99 Sample Type: Water Sample Condition: I & C Project No: Sample Received by: VW

TOTAL Hg TA# FIELD CODE (mg/L)T133578 9910151225 < 0.0002 -0.00104 **ICV** 0.00104 CCV 0.0002 **REPORTING LIMIT** RPD 0 110 % Extraction Accuracy 104 % Instrument Accuracy

METHODS: EPA 7470A CHEMIST: BP TOTAL Hg SPIKE: 0.0010 mg/L TOTAL Hg. TOTAL Hg CV: 0.0010mg/L TOTAL Hg.

Project Loc: East Hobbs Pool Area

Director, Dr. Blair Leftwich

11-8-59

Project Name: Texaco-Turner

Date



OTHER INFORMATION

TDS	
EC	

920
020

Measure EC and Cation Sums Measure EC and Anion Sums Calculated TDS/Conductivity Measure TDS and Cation Sums Measure TDS and Anion Sums

835.5622 Range should be:	738	to	902
856.3941 Range should be:	738	to	902
0.5731707 Range should be:	0.55	to	0.77
0.5624955 Range should be:	0.55	to	0.77
0.5488127 Range should be:	0.55	to	0.77

(needs to be <10%)

6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922

888•588•3443 E-Mail: lab@traceanalysis.com 806 • 794 • 1296 FAX 806 • 794 • 1298 915•585•3443

FAX 915•585•4944

October 27, 1999 Receiving Date: 10/16/99 Sample Type: Water Project No: Project Loc: East Hobbs Pool Area

ANALYTICAL RESULTS FOR

OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

Page 1 of 4

Extraction Date: 10/18/99 Analysis Date: 10/19/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Turner

FIELD CODE: 9910151225

TA #: T133578

	Limit	Concentration				
EPA 8270 COMPOUNDS	(mgL)	(mg/L)	QC	RPD	%EA	%IA
N-Nitrosodimethylamine	0.005	ND				
2-Picoline	0.005	ND				
Methyl methanesulfonate	0.005	ND				
Ethyl methanesulfonate	0.005	ND				
Phenol	0.005	ND	63	0	46	105
Aniline	0.005	ND				
bis(2-Chloroethyl)ether	0.005	ND				
2-Chlorophenol	0.005	ND		2	111	
1,3-Dichlorobenzene	0.005	ND				
1,4-Dichlorobenzene	0.005	ND	59	0	79	98
Benzyl alcohol	0.005	ND				
1,2-Dichlorobenzene	0.005	ND				
2-Methylphenol	0.005	ND				
bis(2-chloroisopropyl)ether	0.005	ND				
4-Methylphenol/3-Methylphenol	0.005	ND				
Acetophenone	0.005	ND				
n-Nitrosodi-n-propylamine	0.005	ND		2	138	
Hexachloroethane	0.005	ND				
Nitrobenzene	0.005	ND				
N-Nitrosopiperidine	0.005	ND				
Isophorone	0.005	ND				
2-Nitrophenol	0.005	ND	59			98
2,4-Dimethylphenol	0.005	ND				
bis(2-Chloroethoxy)methane	0.005	ND				
Benzoic acid	0.005	ND				
2,4-Dichlorophenol	0.005	ND	61			102
1,2,4-Trichlorobenzene	0.005	ND		1	83	
a,a-Dimethylphenethylamine	0.005	ND				
Naphthalene	0.005	ND			<u> </u>	

Reporting

OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

TA #: T133578

Reporting Limits Concentration EPA 8270 COMPOUNDS (mgL) QC RPD (mg/L)%EA %IA 0.005 4-Chloroaniline ND 0.005 ND 2.6-Dichlorophenol 0.005 ND 59 99 Hexachlorobutadiene 0.005 N-Nitroso-di-n-butylamine ND 0.005 ND 62 4 114 104 4-Chloro-3-methylphenol 0.005 ND 2-Methyinaphthalene/1-Methylnaphthalene 0.005 ND 1,2,4,5-Tetrachlorobenzene 0.005 ND Hexachlorocyclopentadiene 0.005 62 103 2,4,6-Trichlorophenol ND 0.005 ND 2,4,5-Trichlorophenol 2-Chloronaphthalene 0.005 ND 0.005 ND 1-Chloronaphthalene 0.005 ND 2-Nitroaniline 0.005 ND Dimethylphthalate 0.005 ND Acenaphthylene 0.005 ND 2,6-Dinitrotoluene 3-Nitroaniline 0.005 ND 0.005 ND 60 116 100 Acenaphthene 1 0.005 ND 2,4-Dinitrophenol 0.005 ND Dibenzofuran 0.005 ND Pentachlorobenzene 0.005 37 ND 16 4-Nitrophenol 0.005 ND 1-Napthylamine 0.005 12 112 ND 2.4-Dinitrotoluene 0.005 ND 2-Napthylamine 0.005 2,3,4,6-Tetrachlorophenol ND 0.005 ND Fluorene 0.005 ND Diethylphthalate 0.005 ND 4-Chlorophenyl-phenylether 0.005 ND 4-Nitroaniline 0.005 ND 4,6-Dinitro-2-methylphenol 62 103 n-Nitrosodiphenylamine & Diphenylamine 0.005 ND 0.005 ND Diphenylhydrazine

OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

TA #: T133578

	Reporting					
	Limits	Concentration				
EPA 8270 COMPOUNDS	(mgL)	(mg/L)	QC	RPD	%EA	%IA
4-Bromophenyl-phenylether	0.005	ND				
Phenacetin	0.005	ND				
Hexachlorobenzene	0.005	ND				
4-Aminobiphenyl	0.005	ND				
Pentachlorophenol	0.005	ND	51	11	103	85
Pentachloronitrobenzene	0.005	ND				
Pronamide	0.005	ND				
Phenanthrene	0.005	ND				
Anthracene	0.005	ND				<i>"</i>
Di-n-butylphthalate	0.005	ND				
Fluoranthene	0.005	ND	62			103
Benzidine	0.005	ND				
Pyrene	0.005	ND		3	103	
p-Dimethylaminoazobenzene	0.005	ND				
Butylbenzylphthalate	0.005	ND				
Benzo[a]anthracene	0.005	ND				
3,3-Dichlorobenzidine	0.005	ND				
Chrysene	0.005	ND				
bis(2-Ethylhexyl)phthalate	0.005	ND				
Di-n-octlphthalate	0.005	ND	58			. 97
Benzo[b]fluoranthene	0.005	ND				· · · · · · · · · · · · · · · · ·
7,12-Dimethylbenz(a)anthracene	0.005	ND				
Benzo[k]fluoranthene	0.005	ND				
Benzo[a]pyrene	0.005	ND	63			106
3-Methylcholanthrene	0.005	ND				
Dibenzo(a,j)acridine	0.005	ND				
Indeno[1,2,3-cd]pyrene	0.005	ND				
Dibenz[a,h]anthracene	0.005	ND				
Benzo[g,h,i]perylene	0.005	ND				

OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

FIELD CODE: 9910151225

TA #: T133578

SURROGATES	% RECOVERY
2-Fluorophenol SURR	61
Phenol-d6 SURR	36
Nitrobenzene-d5 SURR	107
2-Fluorobiphenyl SURR	118
2,4,6-Tribromophenol SURR	94
Terphenyl-d14 SURR	106

METHODS: EPA SW 846-3510C, 8270C CHEMIST: MA

Director, Dr. Blair Leftwich

10-27-95

Date

6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922 888 • 588 • 3443 E-Mail: lab@traceanalysis.com

806 • 794 • 1296 FAX 806 • 794 • 1298 915 • 585 • 3443 FAX 915 • 585 • 4944

Page 1 of 2

October 27, 1999 Receiving Date: 10/16/99 Sample Type: Water Project No: Project Loc: East Hobbs Pool Area

OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

ANALYTICAL RESULTS FOR

Prep Date: 10/19/99 Analysis Date: 10/19/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Turner

EΑ

IA

FIELD CODE: 9910151225 TA #: T133578

1,3-Dichloropropane

MTBE

8260 Compounds	Limit	Concentration	QC	RPD
	(ug/L)	(ug/L)		
Dichlorodifluoromethane	2	ND		
Chloromethane	2	ND		
Vinyl chloride	2	ND	97	
Bromomethane	5	ND		
Chloroethane	2	ND		
Trichlorofluoromethane	2	ND		
1,1-Dichloroethene	2	ND	95	1
Methylene chloride	5	ND		
trans-1,2-Dichloroethene	2	ND		
1,1-Dichloroethane	2	ND		
cis-1,2-Dichloroethene	2	ND		
Chloroform	2	ND	93	
2,2-Dichloropropane	2	ND		
Bromochloromethane	2	ND		
1,2-Dichloroethane	2	ND		
1,1,1-Trichloroethane	2	ND		
Carbon Tetrachloride	2	ND		

2

Reporting

97 1 96 95 93 Carbon Tetrachloride ND 2 2 ND 1,1-Dichloropropene 2 ND 1 92 Benzene 2 ND 103 103 1,2-Dichloropropane 2 0 ND 93 Trichloroethene 2 ND Dibromomethane 2 ND Bromodichloromethane 2 ND cis-1,3-Dichloropropene 2 ND trans-1,3-Dichloropropene 2 2 101 ND 101 94 Toluene 2 ND 1,1,2-Trichloroethane 2 ND

ND

OCD Attention: Bill Olson

FIELD CODE: 9910151225

TA #: T133578	Reporting					
	Limit	Concentration				
8260 Compounds	(ug/L)	(ug/L)	QC	RPD	EA	IA
Dibromochloromethane	2	ND				
1,2-Dibromoethane	2	ND				
Tetrachloroethene	2	ND	x			
Chlorobenzene	2	ND	101	2	99	101
1,1,1,2-Tertachloroethane	2	ND				
Ethylbenzene	2	ND	110			110
m & p-Xylene	2	ND				
Bromoform	2	ND				
Styrene	2	ND				
o-Xylene	2	ND				
1,1,2,2-Tetrachloroethane	2	ND				
1,2,3-Trichloropropane	2	ND				
lsopropylbenzene	2	ND				
Bromobenzene	2	ND				
2-Chiorotoluene	2	ND		•		
n-Propylbenzene	2	ND				
4-Chlorotoluene	2	ND				
1,3,5-Trimethylbenzene	2	ND				
tert-Butylbenzene	2	ND				
1,2,4-Trimethylbenzene	2	ND				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	2	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	2	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	2	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				-
Naphthalene	2	ND				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

	% Recovery
Dibromofluoromethane	108
Toluene-d8	11
4-Bromofluorobenzene	90

ND = Not Detected Methods: EPA SW 846-5035, 8260B CHEMIST: JG

Director, Dr. Blair Leftwich

10-27-99

Date



6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922 888 • 588 • 3443 E-Mail: lab@traceanalysis.com

806 • 794 • 1296 FAX 806 • 794 • 1298 915•585•3443 FAX 915•585•4944

Analytical and Quality Control Report

Bill Olson OCD 2040 S. Pacheco Santa Fe, NM 87505

Report Date:

10/27/99

Project Number:	N/A		
Project Name:	Texaco-Turner	Order ID Number:	99101604
Project Location:	East Hobbs Pool Area		

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
133578	9910151225	Water	10/15/99	12:25	10/16/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number:133578Description:9910151225

Param	Flag	Result	Dilution	Analytical Method	Date Prenared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL.
Alkalinity (mg/L as CaCo3)										
Hydroxide Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	OC03559	1
Carbonate Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	OC03559	1
Bicarbonate Alkalinity		146	1	E 310.1	10/22/99	10/22/99	JS	PB02818	OC03559	1
Total Alkalinity		146	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Conductivity (uMHOS/cm)										
Specific Conductance		820	1	SM 2510B	10/19/99	10/20/99	MD	PB02766	QC03472	
Ion Chromatography (IC) (mg/L)										
CL		110	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
Fluoride		1.8	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.1
Nitrate-N	*	5.1	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.2
Sulfate		100	1	E 300.0	10/1 8/99	10/1 8/99	JS	PB02756	QC03457	0.5
* Nitrate-N - Sample ran out of holding the	ime for	NO3.								
pH (s.u.)										
pH	*	7.3	1	E 150.1	10/16/99	10/16/99	RS	PB02741	QC03443	1
* pH - Out of holding time.										
TDS (mg/L)										
Total Dissolved Solids		470	1	E 160.1	10/18/99	10/19/99	MD	PB02755	QC03455	10
Total Metals (mg/L)										
Total Aluminum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Arsenic		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Barium		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Boron		0.17	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Cadmium		< 0.01	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.01
Total Calcium		91	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Chromium		< 0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Cobalt		< 0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Copper		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Iron		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Lead		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Magnesium		24	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Manganese		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Molybdenum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Nickel		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Potassium		3.9	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Selenium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Silica		22	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.5
Total Silver		< 0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Sodium		40	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Zinc		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1

Order ID Number: 99101604 Texaco-Turner

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Quality Control Report Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Hydroxide Alkalinity (mg/L as CaCa2)		<1.0	1	10/22/00		
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PD02818	QC03559
Bicarbonate Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PD02818	QC03559
Total Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03339
Total Arkaninty (high as Caeos)		·+.0	I	10/22/99	1 002818	QC03559
		Blank	Reporting	Date	Prep	OC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Specific Conductance (uMHOS/cm)		17.2	•	10/20/99	PB02766	QC03472
		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
CL (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
Fluoride (mg/L)		<0.1	0.1	10/18/99	PB02756	QC03457
Nitrate-N (mg/L)		<0.2	0.2	10/18/99	PB02756	QC03457
Sulfate (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Total Dissolved Solids (mg/L)		<10	10	10/19/99	PB02755	QC03455
and the second		Dlank	Penorting	Date	Dren	00
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Param 	Flag	Result <0.10	Limit 0.1	Analyzed	Batch # PB02751	Batch #
Param Total Aluminum (mg/L) Total Arsenic (mg/L)	Flag	<pre>Color Color C</pre>	0.1 0.1	Analyzed 10/21/99 10/21/99	Batch # PB02751 PB02751	Batch # QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L)	Flag	<pre>Color Color C</pre>	0.1 0.1 0.1	Analyzed 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L)	Flag	Stank Result <0.10	0.1 0.1 0.1 0.1 0.1 0.1	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L)	Flag	Blank Result <0.10	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.01	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L)	Flag	Blank Result <0.10	0.1 0.1 0.1 0.1 0.1 0.1 0.01 0.2	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L)	Flag	Blank Result <0.10	0.1 0.1 0.1 0.1 0.1 0.01 0.2 0.05	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L)	Flag	Shank Result <0.10	0.1 0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L)	Flag	Blank Result <0.10	Limit 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L)	Flag	Brank Result <0.10	Limit 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.05 0.1 0.1	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L) Total Lead (mg/L)	Flag	Blank Result <0.10	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.05 0.1 0.1 0.1 0.05	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L) Total Lead (mg/L) Total Magnesium (mg/L)	Flag	Brank Result <0.10	0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.05 0.1 0.1 0.1 0.05 0.2	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
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Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Copper (mg/L) Total Copper (mg/L) Total Lead (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L)	Flag	Brank Result <0.10	Limit 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L)	Flag	Brank Result <0.10	Limit 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
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Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Magnese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Potassium (mg/L) Total Selenium (mg/L)	Flag	Brank Result <0.10	Limit 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.2 0.05	Analyzed 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	Batch # PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Manganese (mg/L) Total Nickel (mg/L) Total Potassium (mg/L) Total Selenium (mg/L) Total Selenium (mg/L) Total Silica (mg/L)	Flag	Brank Result <0.10	Limit 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.5	Analyzed 10/21/99	Batch # PB02751 PB02751 PB02751 PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Selenium (mg/L) Total Selenium (mg/L) Total Silica (mg/L) Total Silica (mg/L)	Flag	Brank Result <0.10	Limit 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.5 0.05	Analyzed 10/21/99	Batch # PB02751	Batch # QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Magnese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Selenium (mg/L) Total Silica (mg/L) Total Silica (mg/L) Total Silica (mg/L) Total Sodium (mg/L)	Flag	Brank Result <0.10	Limit 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.2 0.05 0.5 0.05 0.2	Analyzed 10/21/99	Batch # PB02751	$\begin{array}{c} \text{Batch } \# \\ \hline \\ \text{QC03544} \\ \ \text{QC03544} \\ \ \text{QC03544} \\ \ \text{QC03544} \\ $

Report Date:	10/27/99	Order ID Number:	99101604		Page Number: 4 of 9
N/A		Texaco-Turner			East Hobbs Pool Area
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Order ID Number: 99101604 Texaco-Turner

Quality Control Report Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	CL (mg/L)	110	1	62.5	168.93	94		80 - 120	0 - 20	QC03457
MS	Fluoride (mg/L)	1.8	1	12.5	13.17	91		80 - 120	0 - 20	QC03457
MS	Nitrate-N (mg/L)	5.1	1	25	28.55	94		80 - 120	0 - 20	QC03457
MS	Sulfate (mg/L)	100	1	62.5	167.90	109		80 - 120	0 - 20	QC03457
MSD	CL (mg/L)	110	1	62.5	169.24	95	1	80 - 120	0 - 20	QC03457
MSD	Fluoride (mg/L)	1.8	1	12.5	13.04	90	1	80 - 120	0 - 20	QC03457
MSD	Nitrate-N (mg/L)	5.1	1	25	28.63	94	0	80 - 120	0 - 20	QC03457
MSD	Sulfate (mg/L)	100	1	62.5	168.25	10 9	1	80 - 120	0 - 20	QC03457

		G l_		Spike	Matrix	07		0 / D	000	0.0
Standard	Param	Result	Dil.	Amount Added	Result	% Rec.	RPD	% Rec. Limit	Limit	QC Batch #
MS	Total Aluminum (mg/L)	<0.10	1	1	1.05	79		75 - 125	0 - 20	QC03544
MS	Total Calcium (mg/L)	163	1	1000	1239	108		75 - 125	0 - 20	QC03544
MS	Total Copper (mg/L)	< 0.10	1	1	1.01	101		75 - 125	0 - 20	QC03544
MS	Total Lead (mg/L)	< 0.05	1	1	0.99	99		75 - 125	0 - 20	QC03544
MS	Total Magnesium (mg/L)	44	1	1000	1122	108		75 - 125	0 - 20	QC03544
MS	Total Potassium (mg/L)	5.0	1	1000	1062	10 6		75 - 125	0 - 20	QC03544
MS	Total Sodium (mg/L)	60	1	1000	1134	107		75 - 125	0 - 20	QC03544
MSD	Total Aluminum (mg/L)	<0.10	1	1	1.01	75	5	75 - 125	0 - 20	QC03544
MSD	Total Calcium (mg/L)	163	1	1000	1220	106	2	75 - 125	0 - 20	QC03544
MSD	Total Copper (mg/L)	<0.10	1	1	0.97	97	4	75 - 125	0 - 20	QC03544
MSD	Total Lead (mg/L)	< 0.05	1	1	0.95	95	4	75 - 125	0 - 20	QC03544
MSD	Total Magnesium (mg/L)	44	1	1000	1091	105	3	75 - 125	0 - 20	QC03544
MSD	Total Potassium (mg/L)	5.0	1	1000	1044	104	2	75 - 125	0 - 20	QC03544
MSD	Total Sodium (mg/L)	60	1	1000	1094	103	4	75 - 125	0 - 20	QC03544

Quality Control Report Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		38	38	1	0	0 - 20	QC03559
Duplicate	Total Alkalinity (mg/L as CaCo3)		38	38	1	0	0 - 20	QC03559

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Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #		
Duplicate	Specific Conductance (uMHOS/cm)	1353	1400	1	3	0 - 20	QC03472		
Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #		
Duplicate	pH (s.u.)		7.3	7.3	1	0	0 - 20	QC03443		
Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #		
Duplicate	Total Dissolved Solids (mg/L)		449	440	1	2	0 - 20	QC03455		

Quality Control Report Lab Control Spikes and Duplicate Spike

				Spike	Matrix					
		Blank		Amount	Spike	%		% Rec.	RPD	QC
	Param	Result	Dil.	Added	Result	Rec.	RPD	Limit	Limit	Batch #
LCS	Total Aluminum (mg/L)	<0.10	1	2	2.00	100		75 - 125	0 - 20	QC03544
LCS	Total Calcium (mg/L)	<0.20	1	1000	1044	104		75 - 125	0 - 20	QC03544
LCS	Total Copper (mg/L)	<0.10	1	1	2.06	103		75 - 125	0 - 20	QC03544
LCS	Total Lead (mg/L)	<0.05	1	1	2.08	104		75 - 125	0 - 20	QC03544
LCS	Total Magnesium (mg/L)	<0.20	1	1000	1061	106		75 - 125	0 - 20	QC03544
LCS	Total Potassium (mg/L)	<0.20	1	1000	1067	107		75 - 125	0 - 20	QC03544
LCS	Total Sodium (mg/L)	<0.20	1	1000	1052	105		75 - 125	0 - 20	QC03544
LCSD	Total Aluminum (mg/L)	<0.10	1	2	2.00	100	0	75 - 125	0 - 20	QC03544
LCSD	Total Calcium (mg/L)	<0.20	1	1000	1051	105	1	75 - 125	0 - 20	QC03544
LCSD	Total Copper (mg/L)	<0.10	1	1	2.06	103	0	75 - 125	0 - 20	QC03544
LCSD	Total Lead (mg/L)	< 0.05	1	1	2.08	104	0	75 - 125	0 - 20	QC03544
LCSD	Total Magnesium (mg/L)	<0.20	1	1000	1059	106	0	75 - 125	0 - 20	QC03544
LCSD	Total Potassium (mg/L)	<0.20	1	1000	1081	108	1	75 - 125	0 - 20	QC03544
LCSD	Total Sodium (mg/L)	<0.20	1	1000	1061	106	1	75 - 125	0 - 20	QC03544

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Quality Control Report Continuing Calibration Verification Standard

		CCVs TRUE	CCVs Found	CCVs Percent	Percent Recovery	Date	QC Batch
Standard	Param Flag	Conc.	Conc.	Recovery	Limits	Analyzed	`#
ICV	Hydroxide Alkalinity (mg/L as CaCo3)	0	<1.0	0	80 - 120	10/22/99	QC03559
ICV	Carbonate Alkalinity (mg/L as CaCo3)	0	2000	0	80 - 120	10/22/99	QC03559
ICV	Bicarbonate Alkalinity (mg/L as CaCo3)	0	110	0	80 - 120	10/22/99	QC03559
ICV	Total Alkalinity (mg/L as CaCo3)	2400	2110	88	80 - 120	10/22/99	QC03559
CCV (1	Hydroxide Alkalinity (mg/L as CaCo3)	0	<1.0	0	80 - 120	10/22/99	QC03559
CCV (1	Carbonate Alkalinity (mg/L as CaCo3)	0	2000	0	80 - 120	10/22/99	QC03559
CCV (1	Bicarbonate Alkalinity (mg/L as CaCo3)	0	220	0	80 - 120	10/22/99	QC03559
CCV (1	Total Alkalinity (mg/L as CaCo3)	2400	2220	93	80 - 120	10/22/99	QC03559
		CCVs	CCVs	CCVs	Percent		
		TRUE	Found	Percent	Recovery	Date	QC Batch
Standard	Param Flag	Conc.	Conc.	Recovery	Limits	Analyzeu	#
ICV	Specific Conductance (uMHOS/cm)	1413	1306	92	80 - 120	10/20/99	QC03472
CCV (1	Specific Conductance (uMHOS/cm)	1413	1331	94	80 - 120	10/20/99	QC03472
		CCVs	CCVs	CCVs	Percent		•
		TRUE	Found	Percent	Recovery	Date	QC Batch
Standard	Param Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
ICV	CL (mg/L)	12.5	11.76	94	80 - 120	10/18/99	QC03457
ICV	Fluoride (mg/L)	2.5	2.40	96	80 - 120	10/18/99	QC03457
ICV	Nitrate-N (mg/L)	5	4.84	97	80 - 120	10/18/99	QC03457
ICV	Sulfate (mg/L)	12.5	12.56	100	80 - 120	10/18/99	QC03457
CCV (1	CL (mg/L)	12.5	11.75	94	80 - 120	10/18/99	QC03457
CCV (1	Fluoride (mg/L)	2.5	2.40	96	80 - 120	10/18/99	QC03457
CCV (1	Nitrate-N (mg/L)	5	4.85	97	80 - 120	10/18/99	QC03457
CCV (1	Sulfate (mg/L)	12.5	12.45	100	80 - 120	10/18/99	QC03457
		CCVs	CCVs	CCVs	Percent	_	
		TRUE	Found	Percent	Recovery	Date	QC Batch
Standard	Param Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
ICV	pH (s.u.)	7	7.0	100	80 - 120	10/16/99	QC03443
CCV (1	pH (s.u.)	7	7.0	100	80 - 120	10/16/99	QC03443
		CCVs	CCVs	CCVs	Percent		
		TRUE	Found	Percent	Recovery	Date	QC Batch
Standard	Param Flag	Conc.	Conc.	Recovery	Limits		#
ICV	Total Dissolved Solids (mg/L)	1000	987	99	80 - 120	10/19/99	QC03455
CCV (1	Total Dissolved Solids (mg/L)	1000	1004	100	80 - 120	10/19/99	QC03455

Report Date: 10/27/99 N/A Order ID Number: 99101604 Texaco-Turner Page Number: 8 of 9 East Hobbs Pool Area

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Aluminum (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Arsenic (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Barium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Boron (mg/L)		1	1.04	104	75 - 125	10/21/99	QC03544
ICV	Total Cadmium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Calcium (mg/L)		20	20.0	100	75 - 125	10/21/99	QC03544
ICV	Total Chromium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Cobalt (mg/L)		1 ·	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Copper (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Iron (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Lead (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Magnesium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Manganese (mg/L)		1	1.0	100	75 - 125	10/21/99	QC03544
ICV	Total Molybdenum (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Nickel (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
ICV	Total Selenium (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Silica (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Silver (mg/L)		0.2	0.197	99	75 - 125	10/21/99	QC03544
ICV	Total Sodium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Zinc (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
CCV (1	Total Aluminum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Arsenic (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Barium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Boron (mg/L)		1	1.02	102	75 - 125	10/21/99	QC03544
CCV (1	Total Cadmium (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Calcium (mg/L)		20	20.1	101	75 - 125	10/21/99	QC03544
CCV (1	Total Chromium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Cobalt (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Copper (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Iron (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Lead (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Magnesium (mg/L)		20	20.6	103	75 - 125	10/21/99	QC03544
CCV (l	Total Manganese (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Molybdenum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Nickel (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
CCV (1	Total Selenium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Silica (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
CCV (1	Total Silver (mg/L)		0.2	0.188	94	75 - 125	10/21/99	QC03544

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N/A		Texaco-Turner		-	East Hobbs Pool Area

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Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV (1	Total Sodium (mg/L)		20	19.6	98	75 - 125	10/21/99	QC03544
CCV (1	Total Zinc (mg/L)	6	1	0. 96	96	75 - 125	10/21/99	QC03544

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Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922 888•588•3443 E-Mail: lab@traceanalysis.com

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FAX 915•585•4944

ANALYTICAL RESULTS FOR OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

November 8, 1999 Receiving Date: 10/16/99 Sample Type: Water Project No: Project Loc: East Hobbs Pool Area

Prep Date: 11/08/99 Analysis Date: 11/08/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Rodriquez

TA#	FIELD CODE	TOTAL Hg (mg/L)			
T133577	9910151303	0.00036			
ICV		0.00104			
CCV		0.00104			
REPORTING LIMIT		0.0002			
RPD		0			
% Extraction Accuracy		110			
% Instrument Accuracy		104			

METHODS: EPA 7470A CHEMIST: BP TOTAL Hg SPIKE: 0.0010 mg/L TOTAL Hg. TOTAL Hg CV: 0.0010mg/L TOTAL Hg.

11-8-95

Date

Director, Dr. Blair Leftwich



OTHER INFORMATION

тре	740
103	740
EC	1400

Measure EC and Cation Sums Measure EC and Anion Sums Calculated TDS/Conductivity Measure TDS and Cation Sums Measure TDS and Anion Sums

1449.236	Range should be:	1260	to	1540
1433.3274	Range should be:	1260	to	1540
0.5285714	Range should be:	0.55	to	0.77
0.5106139	Range should be:	0.55	to	0.77
0.5162812	Range should be:	0.55	to	0.77

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6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922 888 • 588 • 3443 E-Mail: lab@traceanalysis.com 806 • 794 • 1296FAX 806 • 794 • 1298915 • 585 • 3443FAX 915 • 585 • 4944

October 27, 1999 Receiving Date: 10/16/99 Sample Type: Water Project No: Project Loc: East Hobbs Pool Area

ANALYTICAL RESULTS FOR OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

n

Prep Date: 10/19/99

Page 1 of 2

Analysis Date: 10/19/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Rodriquez

FIELD CODE: 9910151303 TA #: T133577

	Reporting						
8260 Compounds	Limit	Concentration	QC	RPD	EA	IA	
	(ug/L)	(ug/L)					
Dichlorodifluoromethane	2	ND					
Chloromethane	2	ND					
Vinyl chloride	2	ND	97			97	
Bromomethane	5	ND					
Chloroethane	2	ND					
Trichlorofluoromethane	2	ND					
1,1-Dichloroethene	2	ND	95	1	96	95	
Methylene chloride	5	ND					
trans-1,2-Dichloroethene	2	ND					
1,1-Dichloroethane	2	ND					
cis-1,2-Dichloroethene	2	ND					
Chloroform	2	ND	93			93	
2,2-Dichloropropane	2	ND					
Bromochloromethane	2	ND					
1,2-Dichloroethane	2	ND					
1,1,1-Trichloroethane	2	ND					
Carbon Tetrachloride	2	ND					
1,1-Dichloropropene	2	ND					
Benzene	2	ND		1	92		
1,2-Dichloropropane	2	ND	103			103	
Trichloroethene	2	ND		0	93		
Dibromomethane	2	ND					
Bromodichloromethane	2	ND					
cis-1,3-Dichloropropene	2	ND					
trans-1,3-Dichloropropene	2	ND					
Toluene	2	ND	101	2	94	101	
1,1,2-Trichloroethane	2	ND					
1,3-Dichloropropane	2	ND					
МТВЕ	2	ND					

OCD

Attention: Bill Olson

FIELD CODE: 9910151303

IA #: 1133577	Reporting					
	Limit	Concentration				
8260 Compounds	(ug/L)	(ug/L)	QC	RPD	EA	IA
Dibromochloromethane	2	ND				
1,2-Dibromoethane	2	ND				
Tetrachloroethene	2	ND				
Chlorobenzene	2	ND	101	2	99	101
1,1,1,2-Tertachloroethane	2	ND				
Ethylbenzene	2	ND	110			110
m & p-Xylene	2	ND				
Bromoform	2	ND				
Styrene	2	ND				
o-Xylene	2	ND				
1,1,2,2-Tetrachloroethane	2	ND				
1,2,3-Trichloropropane	2	ND				
Isopropylbenzene	2	ND				
Bromobenzene	2	ND				
2-Chlorotoluene	2	ND				
n-Propylbenzene	2	ND				
4-Chlorotoluene	2	ND				
1,3,5-Trimethylbenzene	2	ND				
tert-Butylbenzene	2	ND				
1,2,4-Trimethylbenzene	2	ND				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	2	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	2	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	2	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				
Naphthalene	2	ND				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

	% Recovery
Dibromofluoromethane	109
Toluene-d8	111
4-Bromofluorobenzene	89

ND = Not Detected Methods: EPA SW 846-5035, 8260B CHEMIST: JG

Director, Dr. Blair Leftwich

10-27-99

Date

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FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

October 27, 1999 Receiving Date: 10/16/99 Sample Type: Water Project No: Project Loc: East Hobbs Pool Area

ANALYTICAL RESULTS FOR

OCD Attention: Bill Olson

Reporting

2040 S. Pacheco

Santa Fe, New Mexico 87505

Page 1 of 4

Extraction Date: 10/18/99 Analysis Date: 10/19/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Rodriquez

FIELD CODE: 9910151303

TA #: T133577

	Limit	Concentration				
EPA 8270 COMPOUNDS	(mgL)	(mg/L)	QC	RPD	%EA	%IA
N-Nitrosodimethylamine	0.005	ND				
2-Picoline	0.005	ND				
Methyl methanesulfonate	0.005	ND				
Ethyl methanesulfonate	0.005	ND				
Phenol	0.005	ND	63	0	46	105
Aniline	0.005	ND				
bis(2-Chloroethyl)ether	0.005	ND				
2-Chlorophenol	0.005	ND		2	111	
1,3-Dichlorobenzene	0.005	ND				
1,4-Dichlorobenzene	0.005	ND	59	0	79	98
Benzyl alcohol	0.005	ND				
1,2-Dichlorobenzene	0.005	ND				
2-Methylphenol	0.005	ND				
bis(2-chloroisopropyl)ether	0.005	ND				·
4-Methylphenol/3-Methylphenol	0.005	ND				
Acetophenone	0.005	ND				
n-Nitrosodi-n-propylamine	0.005	ND		2	138	
Hexachloroethane	0.005	ND				
Nitrobenzene	0.005	ND				
N-Nitrosopiperidine	0.005	ND				
Isophorone	0.005	ND				
2-Nitrophenol	0.005	ND	59			98
2,4-Dimethylphenol	0.005	ND				
bis(2-Chloroethoxy)methane	0.005	ND				
Benzoic acid	0.005	ND				
2,4-Dichlorophenol	0.005	ND	61			102
1,2,4-Trichlorobenzene	0.005	ND		1	83	
a,a-Dimethylphenethylamine	0.005	ND				
Naphthalene	0.005	ND				

OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

FIELD CODE: 9910151303

TA #: T133577

Reporting Limits Concentration EPA 8270 COMPOUNDS (mgL) (mg/L)QC RPD %EA %IA 0.005 ND 4-Chloroaniline 0.005 ND 2,6-Dichlorophenol 0.005 ND 59 99 Hexachlorobutadiene N-Nitroso-di-n-butylamine 0.005 ND 0.005 ND 62 4 114 104 4-Chloro-3-methylphenol 0.005 ND 2-Methylnaphthalene/1-Methylnaphthalene 0.005 ND 1,2,4,5-Tetrachlorobenzene 0.005 ND Hexachlorocyclopentadiene 0.005 ND 62 103 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 0.005 ND 0.005 ND 2-Chloronaphthalene ND 0.005 1-Chloronaphthalene 0.005 ND 2-Nitroaniline 0.005 ND Dimethylphthalate 0.005 ND Acenaphthylene 0.005 ND 2,6-Dinitrotoluene 0.005 ND 3-Nitroaniline 0.005 100 ND 60 1 116 Acenaphthene 0.005 ND 2,4-Dinitrophenol 0.005 ND Dibenzofuran 0.005 ND Pentachlorobenzene 0.005 ND 16 37 4-Nitrophenol 0.005 ND 1-Napthylamine 0.005 ND 12 112 2,4-Dinitrotoluene 0.005 ND 2-Napthylamine 0.005 ND 2,3,4,6-Tetrachiorophenol 0.005 ND Fluorene 0.005 ND Diethylphthalate 4-Chlorophenyl-phenylether 0.005 ND 0.005 ND 4-Nitroaniline 4,6-Dinitro-2-methylphenol 0.005 ND 103 0.005 ND 62 n-Nitrosodiphenylamine & Diphenylamine 0.005 ND Diphenylhydrazine

OCD Attention Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

FIELD CODE: 9910151303

TA #: T133577

	Reporting					
	Limits	Concentration				
EPA 8270 COMPOUNDS	(mgL)	(mg/L)	QC	RPD	%EA	%IA
4-Bromophenyl-phenylether	0.005	ND				
Phenacetin	0.005	ND				
Hexachlorobenzene	0.005	ND				
4-Aminobiphenyl	0.005	ND				
Pentachlorophenol	0.005	ND	51	11	103	85
Pentachloronitrobenzene	0.005	ND				
Pronamide	0.005	ND				
Phenanthrene	0.005	ND				
Anthracene	0.005	ND				·
Di-n-butylphthalate	0.005	ND				
Fluoranthene	0.005	ND	62			103
Benzidíne	0.005	ND				
Pyrene	0.005	ND		3	103	
p-Dimethylaminoazobenzene	0.005	ND				····
Butylbenzylphthalate	0.005	ND				
Benzo[a]anthracene	0.005	ND				
3,3-Dichlorobenzidine	0.005	ND				
Chrysene	0.005	ND				
bis(2-Ethylhexyl)phthalate	0.005	ND				
Di-n-octlphthalate	0.005	ND	58			97
Benzo[b]fluoranthene	0.005	ND				
7,12-Dimethylbenz(a)anthracene	0.005	ND				
Benzo[k]fluoranthene	0.005	ND				
Benzo[a]pyrene	0.005	ND	63			106
3-Methylcholanthrene	0.005	ND				
Dibenzo(a,j)acridine	0.005	ND				
Indeno[1,2,3-cd]pyrene	0.005	ND				
Dibenz[a,h]anthracene	0.005	ND				
Benzo[g,h,i]perylene	0.005	ND				

OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

FIELD CODE: 9910151303

TA #: T133577

SURROGATES	% RECOVERY
2-Fluorophenol SURR	63
Phenol-d6 SURR	36
Nitrobenzene-d5 SURR	116
2-Fluorobiphenyl SURR	121
2,4,6-Tribromophenol SURR	100
Terphenyl-d14 SURR	101

METHODS: EPA SW 846-3510C, 8270C CHEMIST: MA

1 111

Director, Dr. Blair Leftwich

Date

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Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79922 888•588•3443 E-Mail: lab@traceanalysis.com 806•794•1296 FAX 806•794•1298 915•585•3443 FAX 915•585•4944

Analytical and Quality Control Report

Bill Olson OCD 2040 S. Pacheco Santa Fe, NM 87505

Report Date: 10/27/99

Project Number:N/AProject Name:Texaco-RodriquezProject Location:East Hobbs Pool Area

Order ID Number: 99101603

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
133577	9910151303	Water	10/15/99	13:03	10/16/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc. P = -

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 133577

Description: 9910151303

				Analytical	Date	Date		rrep	QC	
Param	Flag	Result	Dilution	Method	Prepared	Analyzed	Analyst	Batch #	Batch #	RDL
Alkalinity (mg/L as CaCo3)										
Hydroxide Alkalinity		<1.0	<u></u> 1	E 310.1	10/22/99	10/22/99	JS	PB02818	OC03559	1
Carbonate Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	OC03559	1
Bicarbonate Alkalinity		119	1	E 310.1	10/22/99	10/22/99	JS	PB02818	OC03559	1
Total Alkalinity		119	1	E 310.1	10/22/99	10/22/99	JS	PB02818	OC03559	1
i otur i munnity			-	201011	10.22.25				X C of C C C	
Conductivity (uMHOS/cm)										
Specific Conductance		1400	1	SM 2510B	10/19/99	10/20/99	MD	PB02766	QC03472	
Ion Chromatography (IC) (mg/L)										
CL		290	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
Fluoride		1.6	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.1
Nitrate-N	*	5.0	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.2
Sulfate		160	1	E 300.0	10/18/99	10/18/99	JS	PB02756	OC03457	0.5
* Nitrate-N - Sample ran out of holding	time for	NO3.								
pH (s.u.)										
pH	*	7.3	1	E 150.1	10/16/99	10/16/99	RS	PB02741	QC03443	1
* pH - Out of holding time.										
TDS (mg/L)										
Total Dissolved Solids		740	1	E 160.1	10/18/99	10/19/99	MD	PB02755	QC03455	10
Total Metals (mg/L)										
Total Aluminum		< 0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.1
Total Arsenic		< 0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Barium		0.12	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.1
Total Boron		0.18	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.1
Total Cadmium		< 0.01	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.01
Total Calcium		163	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.2
Total Chromium		<0.05	1	E 200 7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Cobalt		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Copper		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0C03544	0.03
Total Iron		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0003544	0.1
Total Lead		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0C03544	0.05
Total Magnesium		44	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0003544	0.05
Total Manganese		<0.10	1	E 200.7	10/10/00	10/21/00		PB02751	0003544	0.2
Total Maluhdanum		<0.10	1	E 200.7	10/10/00	10/21/00		DD02751	0003544	0.1
		<0.10	1	E 200.7	10/12/22	10/21/99		F D02751	QC03544	0.1
Total Nickel		<0.10	1	E 200.7	10/19/99	10/21/99		PB02/31	QC03544	0.1
Total Potassium		5.0	1	E 200.7	10/19/99	10/21/99		rBU2/31	QC03544	0.2
Total Selenium		~0.05	1	E 200.7	10/19/99	10/21/99	KK DD	rBU2/31	QC03544	0.05
Total Silica		21	1	E 200.7	10/19/99	10/21/99	KK	PB02/51	QC03544	0.5
Total Silver		< 0.05	1	E 200.7	10/19/99	10/21/99	KR.	PB02751	QC03544	0.05
Total Sodium		60	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.2
Total Soutum							_			

Order ID Number: 99101603 Texaco-Rodriquez

Page Number: 3 of 9 East Hobbs Pool Area

Quality Control Report Method Blanks

-		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Hydroxide Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Bicarbonate Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
Total Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Specific Conductance (uMHOS/cm)		17.2		10/20/99	PB02766	QC03472
		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
CL (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
Fluoride (mg/L)		<0.1	0.1	10/18/99	PB02756	QC03457
Nitrate-N (mg/L)		<0.2	0.2	10/18/99	PB02756	QC03457
Sulfate (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Total Dissolved Solids (mg/L)		<10	10	10/19/99	PB02755	QC03455
		Blank	Reporting	Date	Prep	QC
_		Decult	Limit	Analyzed	Batch #	Batch #
Param	Flag	Result	Linin	7 mary 20a	Duten #	Duten
Param Total Aluminum (mg/L)	Flag	<0.10	0.1	10/21/99	PB02751	QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L)	Flag	<0.10 <0.10	0.1 0.1	10/21/99 10/21/99	PB02751 PB02751	QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L)	Flag	<0.10 <0.10 <0.10	0.1 0.1 0.1	10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L)	Flag	<0.10 <0.10 <0.10 <0.10 <0.10	0.1 0.1 0.1 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L)	Flag	<0.10 <0.10 <0.10 <0.10 <0.10 <0.01	0.1 0.1 0.1 0.1 0.1 0.01	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L)	Flag	<0.10 <0.10 <0.10 <0.10 <0.10 <0.01 <0.20	0.1 0.1 0.1 0.1 0.01 0.2	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L)	Flag	<0.10 <0.10 <0.10 <0.10 <0.01 <0.20 <0.05	0.1 0.1 0.1 0.1 0.01 0.2 0.05	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L)	Flag	<pre><0.10 <0.10 <0.10 <0.10 <0.10 <0.01 <0.20 <0.05 <0.05 <0.10 <0.10</pre>	0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L) Total Lead (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.1 0.05	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Copper (mg/L) Total Iron (mg/L) Total Lead (mg/L) Total Magnesium (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.1 0.05 0.2	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Magnese (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.05 0.2 0.1 0.1 0.05 0.2 0.1 0.1 0.05 0.2 0.1 0.1 0.1 0.0 0.05 0.2 0.1 0.1 0.1 0.1 0.05 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.05 0.1 0.1 0.1 0.1 0.05 0.1 0.1 0.1 0.1 0.1 0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.05 0.2 0.1 0.1 0.1 0.05 0.2 0.1 0.1 0.1 0.0 0.05 0.1 0.1 0.0 0.05 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Magnese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Nickel (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.05 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Potassium (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.1 0.05 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	$\begin{array}{c} QC03544\\ QC0354\\ QC035\\ QC05\\ QC05\\ QC0$
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Iron (mg/L) Total Magnesium (mg/L) Total Magnese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Potassium (mg/L) Total Selenium (mg/L) Total Selenium (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.5 0.2 0.1 0.1 0.5 0.5 0.5 0.2 0.1 0.1 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751	$\begin{array}{c} QC03544\\ QC0354\\ QC035\\ QC05\\ QC05\\ QC0$
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Chromium (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Magnese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Selenium (mg/L) Total Silica (mg/L) Total Silica (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.2 0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751	$\begin{array}{c} QC03544\\ QC0354\\ QC035\\ QC05\\ QC05\\ QC0$
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Calcium (mg/L) Total Cobalt (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Selenium (mg/L) Total Silica (mg/L) Total Silice (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.1 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.2 0.1 0.1 0.2 0.05 0.5 0.2 0.5 0.5 0.5 0.5 0.5 0.2 0.5 0.5 0.5 0.2 0.5 0.5 0.5 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751	$\begin{array}{c} QC03544\\ QC0354\\ QC035\\ QC05\\ $
Param Total Aluminum (mg/L) Total Arsenic (mg/L) Total Barium (mg/L) Total Boron (mg/L) Total Cadmium (mg/L) Total Calcium (mg/L) Total Calcium (mg/L) Total Cobalt (mg/L) Total Cobalt (mg/L) Total Cobalt (mg/L) Total Copper (mg/L) Total Lead (mg/L) Total Magnesium (mg/L) Total Magnese (mg/L) Total Nickel (mg/L) Total Selenium (mg/L) Total Silica (mg/L) Total Silica (mg/L) Total Sodium (mg/L)	Flag	<0.10	0.1 0.1 0.1 0.1 0.1 0.01 0.2 0.05 0.05 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751	$\begin{array}{c} QC03544\\ QC0354\\ QC03$

Report Date:	10/27/99	
N/A		

Quality Control Report Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	CL (mg/L)	110	1	62.5	168.93	94		80 - 120	0 - 20	QC03457
MS	Fluoride (mg/L)	1.8	1	12.5	13.17	91		80 - 120	0 - 20	QC03457
MS	Nitrate-N (mg/L)	5.1	l	25	28.55	94		80 - 120	0 - 20	QC03457
MS	Sulfate (mg/L)	100	1	62.5	167.90	109		80 - 120	0 - 20	QC03457
MSD	CL (mg/L)	110	1	62.5	169.24	95	1	80 - 120	0 - 20	QC03457
MSD	Fluoride (mg/L)	1.8	1	12.5	13.04	90	1	80 - 120	0 - 20	QC03457
MSD	Nitrate-N (mg/L)	5.1	1	25	28.63	94	0	80 - 120	0 - 20	QC03457
MSD	Sulfate (mg/L)	100	ł	62.5	168.25	109	1	80 - 120	0 - 20	QC03457

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Aluminum (mg/L)	<0.10	1	1	1.05	79		75 - 125	0 - 20	QC03544
MS	Total Calcium (mg/L)	163	1	1000	1239	108		75 - 125	0 - 20	QC03544
MS	Total Copper (mg/L)	< 0.10	1	1	1.01	101		75 - 125	0 - 20	QC03544
MS	Total Lead (mg/L)	< 0.05	1	1	0.99	99		75 - 125	0 - 20	QC03544
MS	Total Magnesium (mg/L)	44	1	1000	1122	108		75 - 125	0 - 20	QC03544
MS	Total Potassium (mg/L)	5.0	1	1000	1062	106		75 - 125	0 - 20	QC03544
MS	Total Sodium (mg/L)	60	1	1000	1134	107		75 - 125	0 - 20	QC03544
MSD	Total Aluminum (mg/L)	<0.10	1	1	1.01	75	5	75 - 125	0 - 20	QC03544
MSD	Total Calcium (mg/L)	163	1	1000	1220	106	2	75 - 125	0 - 20	QC03544
MSD	Total Copper (mg/L)	<0.10	1	1	0.97	97	4	75 - 125	0 - 20	QC03544
MSD	Total Lead (mg/L)	< 0.05	1	1	0.95	95	4	75 - 125	0 - 20	QC03544
MSD	Total Magnesium (mg/L)	44	1	1000	1091	105	3	75 - 125	0 - 20	QC03544
MSD	Total Potassium (mg/L)	5.0	1	1000	1044	104	2	75 - 125	0 - 20	QC03544
MSD	Total Sodium (mg/L)	60	1	1000	1094	103	4	75 - 125	0 - 20	QC03544

Quality Control Report Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		38	38	1	0	0 - 20	QC03559
Duplicate	Total Alkalinity (mg/L as CaCo3)		38	38	1	0	0 - 20	QC03559

Report Da N/A	te: 10/27/99	Order ID Texaco-) Number: 99 Rodriquez	0101603			Page Nu East Hol	mber: 6 of 9 obs Pool Area
Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Specific Conductance (uMHOS/cr	n)	1353	1400	1	3	0 - 20	QC03472
Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	pH (s.u.)		7.3	7.3	1	0	0 - 20	QC03443
Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Total Dissolved Solids (mg/L)		449	440	1	2 .	0 - 20	QC03455

Quality Control Report Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Total Aluminum (mg/L)	<0.10	1	2	2.00	100		75 - 125	0 - 20	QC03544
LCS	Total Calcium (mg/L)	< 0.20	1	1000	1044	104		75 - 125	0 - 20	QC03544
LCS	Total Copper (mg/L)	<0.10	1	1	2.06	103		75 - 125	0 - 20	QC03544
LCS	Total Lead (mg/L)	< 0.05	1	1	2.08	104		75 - 125	0 - 20	QC03544
LCS	Total Magnesium (mg/L)	<0.20	1	1000	1061	106		75 - 125	0 - 20	QC03544
LCS	Total Potassium (mg/L)	<0.20	1	1000	1067	107		75 - 125	0 - 20	QC03544
LCS	Total Sodium (mg/L)	<0.20	1	1000	1052	105		75 - 125	0 - 20	QC03544
LCSD	Total Aluminum (mg/L)	<0.10	1	2	2.00	100	0	75 - 125	0 - 20	QC03544
LCSD	Total Calcium (mg/L)	< 0.20	1	1000	1051	105	1	75 - 125	0 - 20	QC03544
LCSD	Total Copper (mg/L)	<0.10	1	1	2.06	103	0	75 - 125	0 - 20	QC03544
LCSD	Total Lead (mg/L)	<0.05	1	1	2.08	104	0	75 - 125	0 - 20	QC03544
LCSD	Total Magnesium (mg/L)	< 0.20	1	1000	1059	106	0	75 - 125	0 - 20	QC03544
LCSD	Total Potassium (mg/L)	<0.20	1	1000	1081	108	1	75 - 125	0 - 20	QC03544
LCSD	Total Sodium (mg/L)	<0.20	1	1000	1061	106	1	75 - 125	0 - 20	QC03544

Quality Control Report Continuing Calibration Verification Standard

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			CCVs TRUE	CCVs Found	CCVs Percent	Percent Recovery	Date	QC Batch
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Standard	Param Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ICV	Hydroxide Alkalinity (mg/L as CaCo3)	0	<1.0	0	80 - 120	10/22/99	QC03559
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ICV	Carbonate Alkalinity (mg/L as CaCo3)	0	2000	0	80 - 120	10/22/99	QC03559
$\begin{array}{c c \mathbb{lem: limits}} ICV & Total Alkalinity (mg/L as CaCo3) & 2400 & 2110 & 88 & 80 - 120 & 10/22/99 & QC03559 \\ CCV (I & Hydroxide Alkalinity (mg/L as CaCo3) & 0 & <1.0 & 0 & 80 - 120 & 10/22/99 & QC03559 \\ CCV (I & Bicarbonate Alkalinity (mg/L as CaCo3) & 0 & 220 & 0 & 80 - 120 & 10/22/99 & QC03559 \\ CCV (I & Bicarbonate Alkalinity (mg/L as CaCo3) & 2400 & 2220 & 93 & 80 - 120 & 10/22/99 & QC03559 \\ CCV (I & Total Alkalinity (mg/L as CaCo3) & 2400 & 2220 & 93 & 80 - 120 & 10/22/99 & QC03559 \\ CCV (I & Total Alkalinity (mg/L as CaCo3) & 2400 & 2200 & 0 & 80 - 120 & 10/22/99 & QC03559 \\ \hline \end{tabular} & \$	ICV	Bicarbonate Alkalinity (mg/L as CaCo3)	0	110	0	80 - 120	10/22/99	QC03559
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ICV	Total Alkalinity (mg/L as CaCo3)	2400	2110	88	80 - 120	10/22/99	QC03559
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CCV (1	Hydroxide Alkalinity (mg/L as CaCo3)	0	<1.0	0	80 - 120	10/22/99	QC03559
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CCV (1	Carbonate Alkalinity (mg/L as CaCo3)	0	2000	0	80 - 120	10/22/99	QC03559
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	CCV (1	Bicarbonate Alkalinity (mg/L as CaCo3)	0	220	0	80 - 120	10/22/99	QC03559
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	CCV (1	Total Alkalinity (mg/L as CaCo3)	2400	2220	93	80 - 120	10/22/99	QC03559
Standard Param Flag Conc. Percent Conc. Recovery Recovery Date Limits QC Batch Analyzed ICV Specific Conductance (uMHOS/cm) 1413 1306 92 80 - 120 10/20/99 QC03472 CCV (1 Specific Conductance (uMHOS/cm) 1413 1331 94 80 - 120 10/20/99 QC03472 CCV (1 Specific Conductance (uMHOS/cm) 1413 1331 94 80 - 120 10/20/99 QC03472 Standard Param Flag CCVs CCVs Percent Recovery Date Analyzed Analyzed # ICV CL (mg/L) 12.5 11.76 94 80 - 120 10/18/99 QC03457 ICV Fluoride (mg/L) 2.5 2.40 96 80 - 120 10/18/99 QC03457 ICV Sulfate (mg/L) 12.5 11.75 94 80 - 120 10/18/99 QC03457 ICV I CL (mg/L) 12.5 12.45 100 80 - 120 10/18/99 QC03457			CCVs	CCVs	CCVs	Percent		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		_	TRUE	Found	Percent	Recovery	Date	QC Batch μ
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Standard	Param Flag	Conc.	Conc.	Recovery	Limits	Analyzed	H
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ICV	Specific Conductance (uMHOS/cm)	1413	1306	92	80 - 120	10/20/99	QC03472
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CCV (1	Specific Conductance (uMHOS/cm)	1413	1331	94	80 - 120	10/20/99	QC03472
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1		CCVs	CCVs	CCVs	Percent		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			TRUE	Found	Percent	Recovery	Date	QC Batch
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Standard_	Param Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ICV	CL (mg/L)	12.5	11.76	94	80 - 120	10/18/99	QC03457
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ICV	Fluoride (mg/L)	2.5	2.40	96	80 - 120	10/18/99	QC03457
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ICV	Nitrate-N (mg/L)	5	4.84	97	80 - 120	10/18/99	QC03457
$\begin{array}{c} \text{CCV} (1 \ \text{CL} (\text{mg/L}) & 12.5 & 11.75 & 94 & 80 - 120 & 10/18/99 & \text{QC03457} \\ \text{CCV} (1 \ \text{Fluoride} (\text{mg/L}) & 2.5 & 2.40 & 96 & 80 - 120 & 10/18/99 & \text{QC03457} \\ \text{CCV} (1 \ \text{Nitrate-N} (\text{mg/L}) & 5 & 4.85 & 97 & 80 - 120 & 10/18/99 & \text{QC03457} \\ \text{CCV} (1 \ \text{Sulfate} (\text{mg/L}) & 12.5 & 12.45 & 100 & 80 - 120 & 10/18/99 & \text{QC03457} \\ \hline \\ \text{Standard} \ Param & Flag & CCVs \\ \text{ICV} \ pH (s.u.) & 7 & 7.0 & 100 & 80 - 120 & 10/16/99 & \text{QC03443} \\ \hline \\ \text{CCV} (1 \ pH (s.u.) & 7 & 7.0 & 100 & 80 - 120 & 10/16/99 & \text{QC03443} \\ \hline \\ \hline \\ \text{Standard} \ Param & Flag & CCVs \\ \text{Standard} \ Param & Flag & CCVs \\ \text{CCVs} \ CCVs & CCVs \\ \text{Recovery} \ Date \\ \text{Recovery} \ Date \\ \text{Recovery} \ Date \\ \text{Recovery} \ Date \\ \text{Recovery} \ Date \\ \text{Recovery} \ Date \\ \text{Recovery} \ Date \\ \text{Analyzed} \ \# \\ \hline \\ \hline \\ \text{CCV} (1 \ pH (s.u.) & 7 & 7.0 & 100 & 80 - 120 & 10/16/99 & \text{QC03443} \\ \hline \\ \hline \\ \hline \\ \text{Standard} \ Param & Flag \ Conc. \ Conc. \ Covers \\ \text{TRUE} \ Found \\ \text{Percent} \\ \text{Recovery} \ Date \\ \text{Recovery} \ Date \\ \text{Recovery} \ Date \\ \text{Analyzed} \ \# \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \text{CV} \ Total Dissolved Solids (mg/L) & 1000 & 987 & 99 & 80 - 120 & 10/19/99 & \text{QC03455} \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ $	ICV	Sulfate (mg/L)	12.5	12.56	100	80 - 120	10/18/99	QC03457
CCV (1 Fluoride (mg/L) 2.5 2.40 96 80 - 120 10/18/99 QC03457 CCV (1 Nitrate-N (mg/L) 5 4.85 97 80 - 120 10/18/99 QC03457 CCV (1 Sulfate (mg/L) 12.5 12.45 100 80 - 120 10/18/99 QC03457 CCV (1 Sulfate (mg/L) 12.5 12.45 100 80 - 120 10/18/99 QC03457 CCV (1 Sulfate (mg/L) 12.5 12.45 100 80 - 120 10/18/99 QC03457 CCVs CCVs CCVs Percent Recovery Date Analyzed # ICV pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 CCV (1 pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 Standard Param Flag Conc. CCVs CCVs Percent Recovery Date Analyzed # ICV Total Dissolved Solids (mg/L) 1000 987 99 80 - 120 10/19/99	CCV (1	CL (mg/L)	12.5	11.75	94	80 - 120	10/18/99	QC03457
$\begin{array}{c} \text{CCV} (1 \text{Nitrate-N} \ (\text{mg/L}) \\ \text{CCV} \ (1 \text{Sulfate} \ (\text{mg/L}) \\ \hline \text{Standard} \ Param \\ \hline \text{ICV} \ pH \ (\text{s.u.}) \\ \hline \text{Standard} \ Param \\ \hline \text{ICV} \ pH \ (\text{s.u.}) \\ \hline \text{Standard} \ Param \\ \hline \text{Flag} \ \hline \text{CCVs} \\ \hline \text{CCVs} \\ \hline \text{Conc.} \ \hline \text{CCVs} \\ \hline \text{Conc.} \ \hline \text{Conc.} \\ \hline \text{Recovery} \\ \hline \text{Limits} \\ \hline \text{Limits} \\ \hline \text{Analyzed} \\ \hline \text{Analyzed} \\ \hline \text{M} \\ \hline \text{CCV} \ 1 \ pH \ (\text{s.u.}) \\ \hline \text{CCV} \ 1 \ rotal \ Dissolved \ Solids \ (\text{mg/L}) \\ \hline \text{COV} \ 1 \ 1000 \ 987 \ 99 \ 80 - 120 \ 10/16/99 \ QC03455 \\ \hline \text{CCV} \ 1 \ 10/19/99 \ QC03455 \\ \hline \text{CCV} \ 1 \ 10/1$	CCV (1	Fluoride (mg/L)	2.5	2.40	96	80 - 120	10/18/99	QC03457
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CCV (1	Nitrate-N (mg/L)	5	4.85	97	80 - 120	10/18/99	QC03457
StandardParamFlagCCVs TRUE Conc.CCVs Found Conc.Percent Percent RecoveryPercent AnalyzedQC Batch #ICVpH (s.u.)77.010080 - 12010/16/99QC03443CCV (1pH (s.u.)77.010080 - 12010/16/99QC03443CCV (1pH (s.u.)77.010080 - 12010/16/99QC03443CCV (1pH (s.u.)7CCVsCCVs TRUE FoundPercent Percent RecoveryDate AnalyzedQC Batch #StandardParamFlagConc.Conc.CCVs Conc.Percent RecoveryDate AnalyzedQC Batch #ICVTotal Dissolved Solids (mg/L)10009879980 - 12010/19/99QC03455CCV (1Total Dissolved Solids (mg/L)1000100410080 - 12010/19/99QC03455	CCV (1	Sulfate (mg/L)	12.5	12.45	100	80 - 120	10/18/99	QC03457
StandardParamFlagTRUE Conc.Found Conc.Percent RecoveryRecovery LimitsDate AnalyzedQC Batch #ICVpH (s.u.)77.010080 - 12010/16/99QC03443CCV (1pH (s.u.)77.010080 - 12010/16/99QC03443CCV (1pH (s.u.)77.010080 - 12010/16/99QC03443StandardParamFlagCCVs Conc.CCVs RecoveryPercent RecoveryDate AnalyzedQC Batch #StandardParamFlagConc.CCVs Conc.CCVs RecoveryDate AnalyzedQC Batch #ICVTotal Dissolved Solids (mg/L)10009879980 - 12010/19/99QC03455CCV (1Total Dissolved Solids (mg/L)1000100410080 - 12010/19/99QC03455			CCVs	CCVs	CCVs	Percent		
Standard Param Flag Conc. Conc. Recovery Limits Analyzed # ICV pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 CCV (1 pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 CCV (1 pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 CCV (1 pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 Standard Param Flag Conc. CCVs CCVs Percent Recovery Date QC Batch ICV Total Dissolved Solids (mg/L) 1000 987 99 80 - 120 10/19/99 QC03455 CCV (1 Total Dissolved Solids (mg/L) 1000 1004 100 80 - 120 10/19/99 QC03455			TRUE	Found	Percent	Recovery	Date	QC Batch
ICV pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 CCV (1 pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 CCV (1 pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 CCV (1 Param Flag CCVs Conc. CCVs Conc. CCVs Percent Recovery Date Analyzed QC Batch # ICV Total Dissolved Solids (mg/L) 1000 987 99 80 - 120 10/19/99 QC03455 CCV (1 Total Dissolved Solids (mg/L) 1000 1004 100 80 - 120 10/19/99 QC03455	Standard	Param Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
CCV (1 pH (s.u.) 7 7.0 100 80 - 120 10/16/99 QC03443 Standard Param Flag CCVs CCVs CCVs Percent Date QC Batch ICV Total Dissolved Solids (mg/L) 1000 987 99 80 - 120 10/19/99 QC03455 CCV (1 Total Dissolved Solids (mg/L) 1000 1004 100 80 - 120 10/19/99 QC03455	ICV	pH (s.u.)	7	7.0	100	80 - 120	10/16/99	QC03443
StandardParamFlagCCVs TRUE Conc.CCVs Found Conc.Percent Percent Recovery Percent Date AnalyzedQC Batch #ICVTotal Dissolved Solids (mg/L)10009879980 - 12010/19/99QC03455CCV (1Total Dissolved Solids (mg/L)1000100410080 - 12010/19/99QC03455	CCV (1	pH (s.u.)	7	7.0	100	80 - 120	10/16/99	QC03443
StandardParamFlagConc.Found Conc.Percent Conc.Recovery LimitsDate AnalyzedGC Batch #ICVTotal Dissolved Solids (mg/L)10009879980 - 12010/19/99QC03455CCV (1Total Dissolved Solids (mg/L)1000100410080 - 12010/19/99QC03455			CCVs	CCVs	CCVs	Percent	Date	OC Batch
ICV Total Dissolved Solids (mg/L) 1000 987 99 80 - 120 10/19/99 QC03455 CCV (1 Total Dissolved Solids (mg/L) 1000 1004 100 80 - 120 10/19/99 QC03455	Standard	Param Flag	TRUE Conc.	Found Conc.	Percent Recoverv	Recovery Limits	Analyzed	
CCV (1 Total Dissolved Solids (mg/L) 1000 1004 100 80 - 120 10/19/99 QC03455	ICV	Total Dissolved Solids (mg/L)	1000	987	99	80 - 120	10/19/99	QC03455
	CCV (1	Total Dissolved Solids (mg/L)	1000	1004	100	80 - 120	10/19/99	QC03455

Order ID Number: 99101603 Texaco-Rodriquez

Page Number: 8 of 9 East Hobbs Pool Area

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Aluminum (mg/L)		1	0.98	98	75 - 125	10/21/99	OC03544
ICV	Total Arsenic (mg/L)		1	0.99	99	75 - 125	10/21/99	OC03544
ICV	Total Barium (mg/L)		1	0.99	99	75 - 125	10/21/99	OC03544
ICV	Total Boron (mg/L)		1	1.04	104	75 - 125	10/21/99	QC03544
ICV	Total Cadmium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Calcium (mg/L)		20	20.0	100	75 - 125	10/21/99	QC03544
ICV	Total Chromium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Cobalt (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Copper (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Iron (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Lead (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Magnesium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Manganese (mg/L)		1	1.0	100	75 - 125	10/21/99	QC03544
ICV	Total Molybdenum (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Nickel (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
ICV	Total Selenium (mg/L)		1	0.98	9 8	75 - 125	10/21/99	QC03544
ICV	Total Silica (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Silver (mg/L)		0.2	0.197	99	75 - 125	10/21/99	QC03544
ICV	Total Sodium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Zinc (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
CCV (1	Total Aluminum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Arsenic (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Barium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Boron (mg/L)		1	1.02	102	75 - 125	10/21/99	QC03544
CCV (1	Total Cadmium (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Calcium (mg/L)		20	20.1	101	75 - 125	10/21/99	QC03544
CCV (1	Total Chromium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Cobalt (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Copper (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Iron (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Lead (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Magnesium (mg/L)		20	20.6	103	75 - 125	10/21/99	QC03544
CCV (1	Total Manganese (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Molybdenum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Nickel (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
CCV (1	Total Selenium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Silica (mg/L)		-1	0.98	98	75 - 125	10/21/99	QC03544
CCV (1	Total Silver (mg/L)		0.2	0.188	94	75 - 125	10/21/99	QC03544

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV (1	Total Sodium (mg/L)		20	19.6	98	75 - 125	10/21/99	QC03544
CCV (1	Total Zinc (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544

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OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

January 13, 2000

CERTIFIED MAIL RETURN RECEIPT NO. Z 142 564 924

MR. Eddie Seay 601 W. Illinois Hobbs, NM 88240

Re: Texaco/Turner/Rodriquez

Subject: Analytical Results from Water Wells

Dear Mr. Seay:

Please find enclosed a copy of the analytical results from the recent water well sampling which was conducted by the New Mexico Oil Conservation Division (NMOCD) on 10/15/99. Pursuant to our telephone conversation NMOCD understands you will distribute copies to the Turners' and Rodriquezs'. If they have any specific questions please do not hesitate to contact the NMOCD.

The only water quality constituent that exceed the Water Quality Control Commission (WQCC) regulation limits was chlorides found at 290 mg/l for the Rodriquez well. The WQCC limit is 250 mg/l.

Please note the NMOCD had requested information in our October 1, 1999 letter to Mr. Bill Robins concerning the D.F. Fergason Oil Battery located in Unit H, Sec 30-Ts18s-R39e. As of this date, we have not received the requested information. Would you please check the progress of this request and inform NMOCD within 30 days.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Hobbs Office

attachments-2

	TRACEANALYSIS	
6701 Aberdeen Avenue, S	uite 9 Lubbock, Texas 79424 800 • 378 • 1296	806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite	El Paso, Texas 79922 888 588 3443 E-Mail: lab@traceanalysis.com	915•585•3443 FAX 915•585•4944
	ANALYTICAL RESULTS FOR	
	OCD	
	Attention: Bill Olson	
	2040 S. Pacheco	Prep Date: 11/08/99
November 8, 1999	Santa Fe, New Mexico 87505	Analysis Date: 11/08/99
Receiving Date: 10/16/99		Sampling Date: 10/15/99
Sample Type: Water		Sample Condition: I & C
Project No:		Sample Received by: VW
Project Loc: East Hobbs Pool Area		Project Name Texaco-Rodriguez

TA#	FIELD CODE	TOTAL Hg (mg/L)
T133577	9910151303	0.00036
ICV		0.00104
CCV		0.00104
REPORTING LIMIT		0.0002
RPD		0
% Extraction Accuracy		110
% Instrument Accuracy		104

METHODS: EPA 7470A CHEMIST: BP TOTAL Hg SPIKE: 0.0010 mg/L TOTAL Hg. TOTAL Hg CV: 0.0010mg/L TOTAL Hg.

Director, Dr. Blair Leftwich

11-8-95

Date



Percentage Error

the second second second second second second second second second second second second second second second se	
1 10378	%
1110010	
(needs to be	<10%)

1540

1540

0.77

0.77

0.77

OTHER INFORMATION

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TDS	740
EC	1400

Measure EC and Cation Sums	1449.236	Range should be:	1260	to
Measure EC and Anion Sums	1433.3274	Range should be:	1260	to
Calculated TDS/Conductivity	0.5285714	Range should be:	0.55	to
Measure TDS and Cation Sums	0.5106139	Range should be:	0.55	to
Measure TDS and Anion Sums	0.5162812	Range shouid be:	0.55	to

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Page 1 of 2

October 27, 1999 Receiving Date: 10/16/99 Sample Type: Water Project No: Project Loc: East Hobbs Pool Area ANALYTICAL RESULTS FOR OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

Prep Date: 10/19/99 Analysis Date: 10/19/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Rodriquez

FIELD CODE: 9910151303

MTBE

	Bonorting					
8200 Compounds	Reporting	Concentration	00	PDD	E۸	IA
8260 Compounds			QU	NF D	LA	
	(ug/L)					
	2					
	2		07			07
	2		97			97
Bromomethane	5	ND				
Chloroethane	2	ND				
Trichlorofluoromethane	2	ND	A -			<u> </u>
1,1-Dichloroethene	2	ND	95	1	96	95
Methylene chloride	5	ND				
trans-1,2-Dichloroethene	2	ND				
1,1-Dichloroethane	2	ND				
cis-1,2-Dichloroethene	2	ND				
Chloroform	2	ND	93			93
2,2-Dichloropropane	2	ND				
Bromochloromethane	2	ND				
1,2-Dichloroethane	2	ND				
1,1,1-Trichloroethane	2	ND				
Carbon Tetrachloride	2	ND				
1,1-Dichloropropene	2	ND				
Benzene	2	ND		1	92	
1,2-Dichloropropane	2	ND	103			103
Trichloroethene	2	ND		0	93	
Dibromomethane	2	ND				
Bromodichloromethane	2	ND				
cis-1,3-Dichloropropene	2	ND				
trans-1,3-Dichloropropene	2	ND				
Toluene	2	ND	101	2	94	101
1.1.2-Trichloroethane	2	ND				
1 3-Dichloropropage	2	ND				

ND

OCD Attention: Bill Olson

I.

FIELD CODE: 9910151303

TA #: T133577	Reporting					
	Limit	Concentration				
8260 Compounds	(ug/L)	(ug/L)	QC	RPD	EA	IA
Dibromochloromethane	2	ND				
1,2-Dibromoethane	2	ND				
Tetrachloroethene	2	ND				
Chlorobenzene	2	ND	101	2	99	101
1,1,1,2-Tertachloroethane	2	ND				
Ethylbenzene	2	ND	110			110
m & p-Xylene	2	ND				
Bromoform	2	ND				
Styrene	2	ND				
o-Xylene	2	ND				
1,1,2,2-Tetrachloroethane	2	ND				
1,2,3-Trichloropropane	2	ND				
Isopropylbenzene	2	ND				
Bromobenzene	2	ND				
2-Chlorotoluene	2	ND				
n-Propylbenzene	2	ND				
4-Chlorotoluene	2	ND				
1,3,5-Trimethylbenzene	2	ND				
tert-Butylbenzene	2	ND				
1,2,4-Trimethylbenzene	2	ND				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	2	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	2	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	2	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				
Naphthalene	2	ND				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

	% Recovery
Dibromofluoromethane	109
Toluene-d8	111
4-Bromofluorobenzene	89

ND = Not Detected Methods: EPA SW 846-5035, 8260B CHEMIST: JG

Director, Dr. Blair Leftwich

10-27-99

Date

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Page 1 of 4

Extraction Date: 10/18/99 Analysis Date: 10/19/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Rodriquez

FIELD CODE: 9910151303

TA #: T133577

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TA #: T133577	Reporting					
	Limit	Concentration				
EPA 8270 COMPOUNDS	(mgL)	(mg/L)	QC	RPD	%EA	%IA
N-Nitrosodimethylamine	0.005	ND				
2-Picoline	0.005	ND				
Methyl methanesulfonate	0.005	ND				
Ethyl methanesulfonate	0.005	ND				
Phenol	0.005	ND	63	0	46	105
Aniline	0.005	ND				
bis(2-Chloroethyl)ether	0.005	ND				
2-Chlorophenol	0.005	ND		2	111	
1,3-Dichlorobenzene	0.005	ND				
1,4-Dichlorobenzene	0.005	ND	59	0	79	98
Benzyl alcohol	0.005	ND				
1,2-Dichlorobenzene	0.005	ND				
2-Methylphenol	0.005	ND				
bis(2-chloroisopropyl)ether	0.005	ND				
4-Methylphenol/3-Methylphenol	0.005	ND				
Acetophenone	0.005	ND				
n-Nitrosodi-n-propylamine	0.005	ND		2	138	
Hexachloroethane	0.005	ND				
Nitrobenzene	0.005	ND				
N-Nitrosopiperidine	0.005	ND				
Isophorone	0.005	ND				-
2-Nitrophenol	0.005	ND	59			98
2,4-Dimethylphenol	0.005	ND				
bis(2-Chloroethoxy)methane	0.005	ND				
Benzoic acid	0.005	ND				
2,4-Dichlorophenol	0.005	ND	61			102
1,2,4-Trichlorobenzene	0.005	ND		1	83	
a,a-Dimethylphenethylamine	0.005	ND				
Naphthalene	0.005	ND				

October 27, 1999 Receiving Date: 10/16/99 Sample Type: Water Project No:

Project Loc: East Hobbs Pool Area

`E/ 6701 Aberdeen Avenue, Suite 9

OCD

El Paso, Texas 79922

ANALYTICAL RESULTS FOR

Santa Fe, New Mexico 87505

Attention: Bill Olson

2040 S. Pacheco

915•585•3443

806 • 794 • 1296

OCD

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Attention: Bill Olson

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2040 S. Pacheco

Santa Fe, New Mexico 87505

FIELD CODE: 9910151303

TA #: T133577

Reporting

	Limits	Concentration				
EPA 8270 COMPOUNDS	(mgL)	(mg/L)	QC	RPD	%EA	%IA
4-Chloroaniline	0.005	ND				
2,6-Dichlorophenol	0.005	ND				
Hexachlorobutadiene	0.005	ND	59			99
N-Nitroso-di-n-butylamine	0.005	ND				
4-Chloro-3-methylphenol	0.005	ND	62	4	114	104
2-Methyinaphthalene/1-Methyinaphthalene	0.005	ND				
1,2,4,5-Tetrachlorobenzene	0.005	ND				
Hexachlorocyclopentadiene	0.005	ND				
2,4,6-Trichlorophenol	0.005	ND	62			103
2,4,5-Trichlorophenol	0.005	ND				
2-Chloronaphthalene	0.005	ND				
1-Chloronaphthalene	0.005	ND				
2-Nitroaniline	0.005	ND				
Dimethylphthalate	0.005	ND				
Acenaphthylene	0.005	ND				
2,6-Dinitrotoluene	0.005	ND				
3-Nitroaniline	0.005	ND				
Acenaphthene	0.005	ND	60	1	116	100
2,4-Dinitrophenol	0.005	ND				
Dibenzofuran	0.005	ND				
Pentachlorobenzene	0.005	ND				
4-Nitrophenol	0.005	ND		16	37	
1-Napthylamine	0.005	ND				
2,4-Dinitrotoluene	0.005	ND		12	112	
2-Napthylamine	0.005	ND				
2,3,4,6-Tetrachlorophenol	0.005	ND				
Fluorene	0.005	ND				
Diethylphthalate	0.005	ND				
4-Chlorophenyl-phenylether	0.005	ND				
4-Nitroaniline	0.005	ND				
4,6-Dinitro-2-methylphenol	0.005	ND				
n-Nitrosodiphenylamine & Diphenylamine	0.005	ND	62			103
Diphenylhydrazine	0.005	ND				

OCD . Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

FIELD CODE: 9910151303

TA #: T133577

	Reporting					
	Limits	Concentration				
EPA 8270 COMPOUNDS	(mgL)	(mg/L)	QC	RPD	%EA	%IA
4-Bromophenyl-phenylether	0.005	ND				
Phenacetin	0.005	ND				
Hexachlorobenzene	0.005	ND				
4-Aminobiphenyl	0.005	ND				
Pentachlorophenol	0.005	ND	51	11	103	85
Pentachloronitrobenzene	0.005	ND				
Pronamide	0.005	ND				
Phenanthrene	0.005	ND				
Anthracene	0.005	ND				
Di-n-butylphthalate	0.005	ND				
Fluoranthene	0.005	ND	62			103
Benzidine	0.005	ND				
Pyrene	0.005	ND		3	103	
p-Dimethylaminoazobenzene	0.005	ND				~
Butylbenzylphthalate	0.005	ND				
Benzo[a]anthracene	0.005	ND				
3,3-Dichlorobenzidine	0.005	NĎ				
Chrysene	0.005	ND				
bis(2-Ethylhexyl)phthalate	0.005	ND				
Di-n-octlphthalate	0.005	ND	58			97
Benzo[b]fluoranthene	0.005	ND				~~
7,12-Dimethylbenz(a)anthracene	0.005	ND				
Benzo[k]fluoranthene	0.005	ND				
Benzo[a]pyrene	0.005	ND	63			106
3-Methylcholanthrene	0.005	ND				
Dibenzo(a,j)acridine	0.005	ND				_
Indeno[1,2,3-cd]pyrene	0.005	ND				
Dibenz[a,h]anthracene	0.005	ND				
Benzo[g,h,i]perylene	0.005	ND				

OCD . Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

FIELD CODE: 9910151303 TA #: T133577

SURROGATES	% RECOVERY
2-Fluorophenol SURR	63
Phenol-d6 SURR	36
Nitrobenzene-d5 SURR	116
2-Fluorobiphenyl SURR	121
2,4,6-Tribromophenol SURR	100
Terphenyl-d14 SURR	101

METHODS: EPA SW 846-3510C, 8270C CHEMIST: MA

11

10-27-55

Director, Dr. Blair Leftwich

Date

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Analytical and Quality Control Report

Bill Olson OCD 2040 S. Pacheco Santa Fe, NM 87505

Report Date: 10/27/99

N/A Project Number: Project Name: Texaco-Rodriguez East Hobbs Pool Area Project Location:

Order ID Number: 99101603

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
133577	9910151303	Water	10/15/99	13:03	10/16/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number:	133577
Description:	9910151303

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Alkalinity (mg/L as CaCo3)						<u> </u>				
Hydroxide Alkalinity		<1.0	1	E 310 1	10/22/99	10/22/99	IS	PB02818	0C03559	1
Carbonate Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Bicarbonate Alkalinity		119	1	E 310.1	10/22/99	10/22/99	IS	PB02818	QC03559	1
Total Alkalinity		119	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
			-						X	
Conductivity (uMHOS/cm)										
Specific Conductance		1400	1	SM 2510B	10/19/99	10/20/99	MD	PB02766	QC03472	
Ion Chromatography (IC) (mg/L)										
CL		290	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
Fluoride		1.6	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.1
Nitrate-N	*	5.0	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.2
Sulfate		160	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
* Nitrate-N - Sample ran out of holdin	g time for	NO3.							-	
	*	7 2	1	E 150 1	10/16/00	10/16/00	DC	DD00741	0002442	1
pn * nu Out of holding time	-	7.5	1	E 130.1	10/10/99	10/10/99	ĸs	PD02741	QC03443	1
• pH - Out of holding time.										
TDS (mg/L)										
Total Dissolved Solids		740	1	E 160.1	10/18/99	10/19/99	MD	PB02755	QC03455	10
Total Metals (mg/L)										
Total Aluminum		< 0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.1
Total Arsenic		< 0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.1
Total Barium		0.12	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.1
Total Boron		0.18	1	E 200.7	10/19/99	10/21/99	RR	PB02751	OC03544	0.1
Total Cadmium		< 0.01	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.01
Total Calcium		163	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Chromium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Cobalt		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0C03544	0.05
Total Copper		<0.02	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Iron		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0C03544	0.1
Total Lead		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0003544	0.05
Total Magnesium		44	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0C03544	0.05
Total Manganese		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0003544	0.2
Total Molybdenum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	0003544	0.1
Total Nickel		<0.10	1	E 200.7	10/19/99	10/21/99	D D	PB02751	0003544	0.1
Total Potassium		<0.10 5 0	1	E 200.7	10/10/00	10/21/00	DD	DD02751	0003544	0.1
Total Selenium		<0.05	1	E 200.7	10/19/99	10/21/99		PB02751	0003544	0.2
Total Silica		<0.05 21	1	E 200.7	10/10/00	10/21/99	DD	DD02751	0003544	0.05
Total Silver		21 20.05	1	E 200.7	10/10/00	10/21/79	DD	DD02751	0002544	0.5
Total Sadium		~0.03	í 1	E 200.7	10/19/99	10/21/99		FD02/J1	0003544	0.03
		00	1	E 200.7	10/19/99	10/21/99		FDV2/31	0003544	0.2
i otar Zinc		<u><0.10</u>	1	E 200.7	10/19/99	10/21/99	ĸĸ	PB02/31	QC03544	0.1

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Order ID Number: 99101603 Texaco-Rodriquez Page Number: 3 of 9 East Hobbs Pool Area

Quality Control Report Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Hydroxide Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Bicarbonate Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
Total Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Specific Conductance (uMHOS/cm)		17.2		10/20/99	PB02766	QC03472
		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
CL (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
Fluoride (mg/L)		<0.1	0.1	10/18/99	PB02756	QC03457
Nitrate-N (mg/L)		<0.2	0.2	10/18/99	PB02756	QC03457
Sulfate (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Dissolved Solids (mg/L)		<10	10	10/19/99	PB02755	QC03455
Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Aluminum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Arsenic (mg/L)		< 0.10	0.1	10/21/99	PB02751	QC03544
Total Barium (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Boron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Cadmium (mg/L)		< 0.01	0.01	10/21/99	PB02751	QC03544
Total Calcium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Chromium (mg/L)		< 0.05	0.05	10/21/99	PB02751	QC03544
Total Cobalt (mg/L)		< 0.05	0.05	10/21/99	PB02751	QC03544
Total Copper (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Iron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Lead (mg/L)		< 0.05	0.05	10/21/99	PB02751	QC03544
Total Magnesium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Manganese (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Molybdenum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
I otal Nickel (mg/L)		< 0.10	0.1	10/21/99	PB02751	QC03544
Total Potassium (mg/L)		< 0.20	0.2	10/21/99	PB02751	QC03544
Total Selenium (mg/L)		< 0.05	0.05	10/21/99	PB02751	QC03544
I otal Silica (mg/L)		< 0.50	0.5	10/21/99	PB02751	QC03544
I otal Silver (mg/L)		< 0.05	0.05	10/21/99	PB02751	QC03544
Total Sodium (mg/L)		< 0.20	0.2	10/21/99	PB02751	QC03544
		<0.10	U. I	10/21/99	PB02/31	したしうう44

Report Date:	10/27/99
N/A	

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常用指令

Quality Control Report Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	CL (mg/L)	110	1	62.5	168.93	94		80 - 120	0 - 20	QC03457
MS	Fluoride (mg/L)	1.8	1	12.5	13.17	91		80 - 120	0 - 20	QC03457
MS	Nitrate-N (mg/L)	5.1	1	25	28.55	94		80 - 120	0 - 20	QC03457
MS	Sulfate (mg/L)	100	1	62.5	167.90	109		80 - 120	0 - 20	QC03457
MSD	CL (mg/L)	110	1	62.5	169.24	95	1	80 - 120	0 - 20	QC03457
MSD	Fluoride (mg/L)	1.8	1	12.5	13.04	90	1	80 - 120	0 - 20	QC03457
MSD	Nitrate-N (mg/L)	5.1	1	25	28.63	94	0	80 - 120	0 - 20	QC03457
MSD	Sulfate (mg/L)	100	1	62.5	168.25	109	1	80 - 120	0 - 20	QC03457

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Aluminum (mg/L)	<0.10	1	1	1.05	79		75 - 125	0 - 20	QC03544
MS	Total Calcium (mg/L)	163	1	1000	1239	108		75 - 125	0 - 20	QC03544
MS	Total Copper (mg/L)	< 0.10	1	1	1.01	101		75 - 125	0 - 20	QC03544
MS	Total Lead (mg/L)	< 0.05	1	1	0.99	99		75 - 125	0 - 20	QC03544
MS	Total Magnesium (mg/L)	44	1	1000	1122	108		75 - 125	0 - 20	QC03544
MS	Total Potassium (mg/L)	5.0	1	1000	1062	106		75 - 125	0 - 20	QC03544
MS	Total Sodium (mg/L)	60	1	1000	1134	107		75 - 125	0 - 20	QC03544
MSD	Total Aluminum (mg/L)	<0.10	1	1	1.01	75	5	75 - 125	0 - 20	QC03544
MSD	Total Calcium (mg/L)	163	1	1000	1220	106	2	75 - 125	0 - 20	QC03544
MSD	Total Copper (mg/L)	< 0.10	1	1	0.97	97	4	75 - 125	0 - 20	QC03544
MSD	Total Lead (mg/L)	< 0.05	1	1	0.95	95	4	75 - 125	0 - 20	QC03544
MSD	Total Magnesium (mg/L)	44	1	1000	1091	105	3	75 - 125	0 - 20	QC03544
MSD	Total Potassium (mg/L)	5.0	1	1000	1044	104	2	75 - 125	0 - 20	QC03544
MSD	Total Sodium (mg/L)	60	1	1000	1094	103	4	75 - 125	0 - 20	QC03544

Quality Control Report Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		38	38	1	0	0 - 20	QC03559
Duplicate	Total Alkalinity (mg/L as CaCo3)		38	38	1	0	0 - 20	QC03559

						(iii)			
Report Da	te: 10/27/99	C	order ID	Number: 99	0101603			Page Nu	mber: 6 of 9
N/A		Ţ	exaco-	Rodriquez	East Hol	East Hobbs Pool Area			
Standard	Param		Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Specific Conductance	(uMHOS/cm)		1353	1400	1	3	0 - 20	QC03472
Standard	Param		Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	pH (s.u.)			7.3	7.3	1	0	0 - 20	QC03443
Standard	Param		Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Total Dissolved Solids	(mg/L)		449	440	1	2	0 - 20	QC03455

Quality Control Report Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Total Aluminum (mg/L)	<0.10	1	2	2.00	100		75 - 125	0 - 20	QC03544
LCS	Total Calcium (mg/L)	<0.20	1	1000	1044	104		75 - 125	0 - 20	QC03544
LCS	Total Copper (mg/L)	<0.10	1	1	2.06	103		75 - 125	0 - 20	QC03544
LCS	Total Lead (mg/L)	< 0.05	1	1	2.08	104		75 - 125	0 - 20	QC03544
LCS	Total Magnesium (mg/L)	<0.20	1	1000	1061	106		75 - 125	0 - 20	QC03544
LCS	Total Potassium (mg/L)	<0.20	1	1000	1067	107		75 - 125	0 - 20	QC03544
LCS	Total Sodium (mg/L)	<0.20	1	1000	1052	105		75 - 125	0 - 20	QC03544
LCSD	Total Aluminum (mg/L)	<0.10	1	2	2.00	100	0	75 - 125	0 - 20	QC03544
LCSD	Total Calcium (mg/L)	<0.20	1	1000	1051	105	1	75 - 125	0 - 20	QC03544
LCSD	Total Copper (mg/L)	< 0.10	1	1	2.06	103	0	75 - 125	0 - 20	QC03544
LCSD	Total Lead (mg/L)	< 0.05	1	1	2.08	104	0	75 - 125	0 - 20	QC03544
LCSD	Total Magnesium (mg/L)	<0.20	1	1000	1059	106	0	75 - 125	0 - 20	QC03544
LCSD	Total Potassium (mg/L)	< 0.20	1	1000	1081	108	1	75 - 125	0 - 20	QC03544
LCSD	Total Sodium (mg/L)	<0.20	1	1000	1061	106	1	75 - 125	0 - 20	QC03544

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Quality Control Report Continuing Calibration Verification Standard

			CCVs TRUE	CCVs Found	CCVs Percent	Percent	Date	OC Batch
Standard	Param	Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
ICV	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
ICV	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
ICV	Bicarbonate Alkalinity (mg/L as CaCo3))	0	110	0	80 - 120	10/22/99	QC03559
ICV	Total Alkalinity (mg/L as CaCo3)		2400	2110	88	80 - 120	10/22/99	QC03559
CCV (1	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
CCV (1	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
CCV (1	Bicarbonate Alkalinity (mg/L as CaCo3))	0	220	0	80 - 120	10/22/99	QC03559
CCV (1	Total Alkalinity (mg/L as CaCo3)		2400	2220	93	80 - 120	10/22/99	QC03559
			CCVs	CCVs	CCVs	Percent		
0. 1 1	D	-1	TRUE	Found	Percent	Recovery	Date Analyzed	QC Batch
Standard	Param	lag	Conc.	Conc.	Recovery	Limits	Analyzeu	π
ICV	Specific Conductance (uMHOS/cm)		1413	1306	92	80 - 120	10/20/99	QC03472
CCV (1	Specific Conductance (uMHOS/cm)		1413	1331	94	80 - 120	10/20/99	QC03472
			CCVs	CCVs	CCVs	Percent		
a	P	-1	TRUE	Found	Percent	Recovery	Date	QC Batch
Standard	Param I	Flag	Conc.	Conc.	Recovery	Limits	Allalyzeu	
ICV	CL (mg/L)		12.5	11.76	94	80 - 120	10/18/99	QC03457
ICV	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
ICV	Nitrate-N (mg/L)		5	4.84	97	80 - 120	10/18/99	QC03457
ICV	Sulfate (mg/L)		12.5	12.56	100	80 - 120	10/18/99	QC03457
CCV (1	CL (mg/L)		12.5	11.75	94	80 - 120	10/18/99	QC03457
CCV (1	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
CCV (1	Nitrate-N (mg/L)		5	4.85	97	80 - 120	10/18/99	QC03457
CCV (1	Sulfate (mg/L)		12.5	12.45	100	80 - 120	10/18/99	QC03457
			CCVs	CCVs	CCVs	Percent	Data	OC Datah
0	Deve		TRUE	Found	Percent	Recovery	Analyzed	QC Batch #
Standard	Param I	Flag	Conc.	Conc.	Recovery	Limits	7 mary200	
ICV	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443
CCV (1	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443
			CCVs	CCVs	CCVs	Percent	Dete	OC Datal
0, 1 1	David		TRUE	Found	Percent	Recovery	Date Analyzed	
Standard	Param I	lag	Conc.	Conc.	Kecovery	Limits	10/10/06	π
ICV	Total Dissolved Solids (mg/L)		1000	987	99	80 - 120	10/19/99	QC03455
CCV (1	Total Dissolved Solids (mg/L)		1000	1004	100	80 - 120	10/19/99	QC03455

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Order ID Number: 99101603 Texaco-Rodriquez Page Number: 8 of 9 East Hobbs Pool Area

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Aluminum (mg/L)	1 145	1	0.98	98	75 - 125	10/21/99	OC03544
ICV	Total Arsenic (mg/L)		1	0.99	99	75 - 125	10/21/99	OC03544
ICV	Total Barium (mg/L)		1	0.99	99	75 - 125	10/21/99	OC03544
ICV	Total Boron (mg/L)		1	1.04	104	75 - 125	10/21/99	OC03544
ICV	Total Cadmium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Calcium (mg/L)		20	20.0	100	75 - 125	10/21/99	QC03544
ICV	Total Chromium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Cobalt (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Copper (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Iron (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Lead (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Magnesium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Manganese (mg/L)		1	1.0	100	75 - 125	10/21/99	QC03544
ICV	Total Molybdenum (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Nickel (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
ICV	Total Selenium (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Silica (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Silver (mg/L)		0.2	0.197	99	75 - 125	10/21/99	QC03544
ICV	Total Sodium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Zinc (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
CCV (1	Total Aluminum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Arsenic (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Barium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Boron (mg/L)		1	1.02	102	75 - 125	10/21/99	QC03544
CCV (1	Total Cadmium (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Calcium (mg/L)		20	20.1	101	75 - 125	10/21/99	QC03544
CCV (1	Total Chromium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Cobalt (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Copper (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Iron (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Lead (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Magnesium (mg/L)		20	20.6	103	75 - 125	10/21/99	QC03544
CCV (1	Total Manganese (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Molybdenum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Nickel (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
CCV (1	Total Selenium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Silica (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
CCV (1	Total Silver (mg/L)		0.2	0.188	94	75 - 125	10/21/99	QC03544

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Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV (1	Total Sodium (mg/L)		20	19.6	98	75 - 125	10/21/99	QC03544
CCV (1	Total Zinc (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544

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Contact Person: BILL (5450N																08/200												<u> </u>
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6701 Aberdeen Avenue, 4725 Ripley Avenue, Suit	Constant of the second system of the second sy	806•794•1296 915•585•3443 FAX 915•585•4944
November 8, 1999 Receiving Date: 10/16/99 Sample Type: Water Project No: Project Loc: East Hobbs Pool Area	ANALYTICAL RESULTS FOR OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505	Prep Date: 11/08/99 Analysis Date: 11/08/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Turner
TA#	FIELD CODE	TOTAL Hg (mg/L)
T133578	9910151225	<0.0002
ICV CCV		0.00104 0.00104
REPORTING LIMIT		0.0002
RPD % Extraction Accuracy		0 110
% Instrument Accuracy		104

METHODS: EPA 7470A CHEMIST: BP TOTAL Hg SPIKE: 0.0010 mg/L TOTAL Hg. TOTAL Hg CV: 0.0010mg/L TOTAL Hg.

Director, Dr. Blair Leftwich

11-8-99

Date



0.00094	111	meq/L	-

Percentage Error

-
0 100 10 0/
240240 %
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(naada ta ha < 100/)

OTHER INFORMATION

TDS	470
EC	820

Measure EC and Cation Sums Measure EC and Anion Sums Calculated TDS/Conductivity Measure TDS and Cation Sums Measure TDS and Anion Sums

835.5622	Range should be:	738	to	902
856.3941	Range should be:	738	to	902
0.5731707	Range should be:	0.55	to	0.77
0.5624955	Range should be:	0.55	to	0.77
0.5488127	Range should be:	0.55	to	0.77

6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A

RACEANALYSIS, INC.

800•378•1296 888•588•3443

806 • 794 • 1296 FAX 806 • 794 • 1298 915•585•3443

FAX 915•585•4944

ANALYTICAL RESULTS FOR

OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe. New Mexico 87505

Reporting

Page 1 of 4

Extraction Date: 10/18/99 Analysis Date: 10/19/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Turner

FIELD CODE: 9910151225

Project Loc: East Hobbs Pool Area

TA #: T133578

October 27, 1999

Project No:

Receiving Date: 10/16/99

Sample Type: Water

Limit Concentration EPA 8270 COMPOUNDS (mgL) (mg/L)QC RPD %EA %1A N-Nitrosodimethylamine 0.005 ND 2-Picoline 0.005 ND 0.005 ND Methyl methanesulfonate 0.005 ND Ethyl methanesulfonate Phenol 0.005 ND 63 0 46 105 ND Aniline 0.005 0.005 ND bis(2-Chloroethyl)ether 0.005 ND 2 111 2-Chlorophenol 0.005 ND 1,3-Dichlorobenzene 59 0 79 0.005 ND 98 1,4-Dichlorobenzene 0.005 ND Benzyl alcohol 0.005 ND 1,2-Dichlorobenzene 2-Methylphenol 0.005 ND bis(2-chloroisopropyl)ether 0.005 ND 0.005 ND 4-Methylphenol/3-Methylphenol 0.005 ND Acetophenone 0.005 ND 2 n-Nitrosodi-n-propylamine 138 0.005 ND Hexachloroethane 0.005 ND Nitrobenzene 0.005 ND N-Nitrosopiperidine Isophorone 0.005 ND 0.005 ND 59 98 2-Nitrophenol ND 2,4-Dimethylphenol 0.005 0.005 ND bis(2-Chloroethoxy)methane Benzoic acid 0.005 ND 0.005 ND 61 102 2,4-Dichlorophenol 0.005 ND 1 83 1,2,4-Trichlorobenzene 0.005 ND a,a-Dimethylphenethylamine 0.005 ND Naphthalene

I.

Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

FIELD CODE: 9910151225

TA #: T133578

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Reporting

	Limits	Concentration				
EPA 8270 COMPOUNDS	(mgL)	(mg/L)	QC	RPD	%EA	%IA
4-Chloroaniline	0.005	ND				
2,6-Dichlorophenol	0.005	ND				
Hexachlorobutadiene	0.005	ND	59			99
N-Nitroso-di-n-butylamine	0.005	ND				
4-Chloro-3-methylphenol	0.005	ND	62	4	114	104
2-Methyinaphthalene/1-Methyinaphthalene	0.005	ND				
1,2,4,5-Tetrachlorobenzene	0.005	ND				
Hexachlorocyclopentadiene	0.005	ND				
2,4,6-Trichlorophenol	0.005	ND	62			103
2,4,5-Trichlorophenol	0.005	ND				
2-Chloronaphthalene	0.005	ND				
1-Chloronaphthalene	0.005	ND				
2-Nitroaniline	0.005	ND				······································
Dimethylphthalate	0.005	ND				
Acenaphthylene	0.005	ND				
2,6-Dinitrotoluene	0.005	ND				
3-Nitroaniline	0.005	ND				
Acenaphthene	0.005	ND	60	1	116	100
2,4-Dinitrophenol	0.005	ND				
Dibenzofuran	0.005	ND				
Pentachlorobenzene	0.005	ND				
4-Nitrophenol	0.005	ND		16	37	
1-Napthylamine	0.005	ND				
2,4-Dinitrotoluene	0.005	ND		12	112	
2-Napthylamine	0.005	ND				
2,3,4,6-Tetrachlorophenol	0.005	ND				
Fluorene	0.005	ND			······	·····
Diethylphthalate	0.005	ND				
4-Chlorophenyl-phenylether	0.005	ND				
4-Nitroaniline	0.005	ND				
4,6-Dinitro-2-methylphenol	0.005	ND				<u> </u>
n-Nitrosodiphenylamine & Diphenylamine	0.005	ND	62			103
Diphenylhydrazine	0.005	ND				

Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

FIELD CODE: 9910151225

TA #: T133578

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	Reporting					
	Limits	Concentration			_	
EPA 8270 COMPOUNDS	(mgL)	(mg/L)	QC	RPD	%EA	%IA
4-Bromophenyl-phenylether	0.005	ND				
Phenacetin	0.005	ND				
Hexachlorobenzene	0.005	ND				
4-Aminobiphenyl	0.005	ND				
Pentachlorophenol	0.005	ND	51	11	103	85
Pentachloronitrobenzene	0.005	ND				
Pronamide	0.005	ND				
Phenanthrene	0.005	ND				
Anthracene	0.005	ND				
Di-n-butylphthalate	0.005	ND				
Fluoranthene	0.005	ND	62			103
Benzidine	0.005	ND				
Pyrene	0.005	ND	<u> </u>	3	103	
p-Dimethylaminoazobenzene	0.005	ND				
Butylbenzylphthalate	0.005	ND				
Benzo[a]anthracene	0.005	ND				
3,3-Dichlorobenzidine	0.005	ND				
Chrysene	0.005	ND				
bis(2-Ethylhexyl)phthalate	0.005	ND				
Di-n-octlphthalate	0.005	ND	58			97
Benzo[b]fluoranthene	0.005	ND				
7,12-Dimethylbenz(a)anthracene	0.005	ND				
Benzo[k]fluoranthene	0.005	ND				
Benzo[a]pyrene	0.005	ND	63			106
3-Methylcholanthrene	0.005	ND				
Dibenzo(a,j)acridine	0.005	ND				
Indeno[1,2,3-cd]pyrene	0.005	ND				
Dibenz[a,h]anthracene	0.005	ND				
Benzola, h. ilpervlene	0.005	ND				

.

Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

FIELD CODE: 9910151225 TA #: T133578

SURROGATES	% RECOVERY
2-Fluorophenol SURR	61
Phenol-d6 SURR	36
Nitrobenzene-d5 SURR	107
2-Fluorobiphenyl SURR	118
2,4,6-Tribromophenol SURR	94
Terphenyl-d14 SURR	106

METHODS: EPA SW 846-3510C, 8270C CHEMIST: MA

1 III

10-27-95

Date

Director, Dr. Blair Leftwich

Page 4 of 4

6701 Aberdeen Avenue, Suite 9

Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79922 888•588•3443 E-Mail: lab@traceanalysis.com

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FAX 915•585•4944

Page 1 of 2

Prep Date: 10/19/99 Analysis Date: 10/19/99 Sampling Date: 10/15/99 Sample Condition: I & C Sample Received by: VW Project Name: Texaco-Turner

FIELD CODE: 9910151225 TA #: T133578

Project Loc: East Hobbs Pool Area

October 27, 1999

Project No:

Receiving Date: 10/16/99

Sample Type: Water

1,3-Dichloropropane

MTBE

111

IA#. 1155570						
	Reporting					
8260 Compounds	Limit	Concentration	QC	RPD	EA	IA
	(ug/L)	(ug/L)				
Dichlorodifluoromethane	2	ND				
Chloromethane	2	ND				
Vinyl chloride	2	ND	97			97
Bromomethane	5	ND				
Chloroethane	2	ND				
Trichlorofluoromethane	2	ND				
1,1-Dichloroethene	2	ND	95	1	96	95
Methylene chloride	5	ND				
trans-1,2-Dichloroethene	2	ND				
1,1-Dichloroethane	2	ND				
cis-1,2-Dichloroethene	2	ND				
Chloroform	2	ND	93			93
2,2-Dichloropropane	2	ND				
Bromochloromethane	2	ND				
1,2-Dichloroethane	2	ND				
1,1,1-Trichloroethane	2	ND				
Carbon Tetrachloride	2	ND				
1,1-Dichloropropene	2	ND				
Benzene	2	ND		1	92	
1,2-Dichloropropane	2	ND	103			103
Trichloroethene	2	ND		0	93	
Dibromomethane	2	ND				
Bromodichloromethane	2	ND				
cis-1,3-Dichloropropene	2	ND				
trans-1,3-Dichloropropene	2	ND				
Toluene	2	ND	101	2	94	101
1,1,2-Trichloroethane	2	ND				
1.3-Dichloropropane	2	ND				

ND

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ANALYTICAL RESULTS FOR OCD Attention: Bill Olson 2040 S. Pacheco Santa Fe, New Mexico 87505

)E\

4725 Ripley Avenue, Suite A

. Attention: Bill Olson

FIELD CODE: 9910151225 TA #. T433570

TA #: 1133578	Reporting					
	Limit	Concentration				
8260 Compounds	(ug/L)	(ug/L)	QC	RPD	EA	IA
Dibromochloromethane	2	ND				
1,2-Dibromoethane	2	ND				
Tetrachloroethene	2	ND				
Chlorobenzene	2	ND	101	2	99	101
1,1,1,2-Tertachloroethane	2	ND				
Ethylbenzene	2	ND	110			110
m & p-Xylene	2	ND				
Bromoform	2	ND				
Styrene	2	ND				
o-Xylene	2	ND				
1,1,2,2-Tetrachloroethane	2	ND				
1,2,3-Trichloropropane	2	ND				
Isopropylbenzene	2	ND				
Bromobenzene	2	ND				
2-Chlorotoluene	2	ND				
n-Propylbenzene	2	ND				
4-Chlorotoluene	2	ND				
1,3,5-Trimethylbenzene	2	ND				
tert-Butylbenzene	2	ND				
1,2,4-Trimethylbenzene	2	ND				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	2	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	2	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	2	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				
Naphthalene	2	ND				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

...

	% Recovery
Dibromofluoromethane	108
Toluene-d8	11
4-Bromofluorobenzene	90

ND = Not Detected Methods: EPA SW 846-5035, 8260B CHEMIST: JG

 $\Gamma = \Gamma H$

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Director, Dr. Blair Leftwich

Date

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800 • 378 • 1296 806 • 794 • 1296 FAX 806 • 794 • 1298

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Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922 888 • 588 • 3443 E-Mail: lab@traceanalysis.com 806 • 794 • 1296 FAX 806 • 794 • 1298 915 • 585 • 3443 FAX 915 • 585 • 4944

Analytical and Quality Control Report

Bill Olson OCD 2040 S. Pacheco Santa Fe, NM 87505

Report Date: 10/27/99

Project Number:N/AProject Name:Texaco-TurnerProject Location:East Hobbs Pool Area

Order ID Number: 99101604

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
133578	9910151225	Water	10/15/99	12:25	10/16/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number:133578Description:9910151225

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D.	-			Analytical	Date	Date		Prep	QC	
Param	Flag	Result	Dilution	Method	Prepared	Analyzed	Analyst	Batch #	Batch #	RDL
Alkalinity (mg/L as CaCo3)										
Hydroxide Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Carbonate Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Bicarbonate Alkalinity		146	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Total Alkalinity		146	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Conductivity (uMHOS/cm)										
Specific Conductance		820	1	SM 2510B	10/19/99	10/20/99	MD	PB02766	QC03472	
Ion Chromatography (IC) (mg/L)										
CL		110	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
Fluoride		1.8	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.1
Nitrate-N	*	5.1	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.2
Sulfate		100	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
* Nitrate-N - Sample ran out of holdin	g time for	NO3.								
pH (s.u.)										
pН	*	7.3	1	E 150.1	10/16/99	10/16/99	RS	PB02741	QC03443	1
* pH - Out of holding time.										
TDS (mg/L)										
Total Dissolved Solids		470	1	E 160.1	10/18/99	10/19/99	MD	PB02755	QC03455	10
Total Metals (mg/L)										
Total Aluminum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Arsenic		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Barium		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Boron		0.17	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Cadmium		< 0.01	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.01
Total Calcium		91	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Chromium		< 0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Cobalt		< 0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Copper		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Iron		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Lead		< 0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Magnesium		24	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Manganese		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Molybdenum		< 0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Nickel		< 0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Potassium		3.9	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Selenium		< 0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Silica		22	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.5
Total Silver		< 0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Sodium		40	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Zinc		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1

Order ID Number: 99101604 Texaco-Turner

Page Number: 3 of 9 East Hobbs Pool Area

Quality Control Report Method Blanks

		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Hydroxide Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Bicarbonate Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
Total Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
D		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Specific Conductance (uMHOS/cm)		17.2		10/20/99	PB02766	QC03472
		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
CL (mg/L)		< 0.5	0.5	10/18/99	PB02756	QC03457
Fluoride (mg/L)		< 0.1	0.1	10/18/99	PB02756	QC03457
Nitrate-N (mg/L)		< 0.2	0.2	10/18/99	PB02756	QC03457
Sulfate (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Total Dissolved Solids (mg/L)		<10	10	10/19/99	PB02755	QC03455
ere Calabara Carbones, Calabara Carbones		Blank	Reporting	Date	Prep	QC
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #
Total Aluminum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Arsenic (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Barium (mg/L)		< 0.10	0.1	10/21/99	PB02751	QC03544
Total Boron (mg/L)		< 0.10	0.1	10/21/99	PB02751	QC03544
Total Cadmium (mg/L)		< 0.01	0.01	10/21/99	PB02751	QC03544
Total Calcium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Chromium (mg/L)		< 0.05	0.05	10/21/99	PB02751	QC03544
Total Cobalt (mg/L)		< 0.05	0.05	10/21/99	PB02751	QC03544
Total Copper (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Iron (mg/L)						~~~~~
		<0.10	0.1	10/21/99	PB02751	QC03544
Total Lead (mg/L)		<0.10 <0.05	0.1 0.05	10/21/99 10/21/99	PB02751 PB02751	QC03544 QC03544
Total Lead (mg/L) Total Magnesium (mg/L)		<0.10 <0.05 <0.20	0.1 0.05 0.2	10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751	QC03544 QC03544 QC03544
Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L)		<0.10 <0.05 <0.20 <0.10	0.1 0.05 0.2 0.1	10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544
Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L)		<0.10 <0.05 <0.20 <0.10 <0.10	0.1 0.05 0.2 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544
Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L)		<0.10 <0.05 <0.20 <0.10 <0.10 <0.10	0.1 0.05 0.2 0.1 0.1 0.1 0.1	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Potassium (mg/L)		<0.10 <0.05 <0.20 <0.10 <0.10 <0.10 <0.20 <0.05	0.1 0.05 0.2 0.1 0.1 0.1 0.2 0.2	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Potassium (mg/L) Total Selenium (mg/L)		<0.10 <0.05 <0.20 <0.10 <0.10 <0.10 <0.20 <0.05 <0.50	0.1 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.5	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Potassium (mg/L) Total Selenium (mg/L) Total Silica (mg/L)		<0.10 <0.05 <0.20 <0.10 <0.10 <0.20 <0.05 <0.50 <0.05	0.1 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.5 0.5	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Potassium (mg/L) Total Selenium (mg/L) Total Silica (mg/L) Total Silver (mg/L) Total Silver (mg/L)		<0.10 <0.05 <0.20 <0.10 <0.10 <0.10 <0.20 <0.05 <0.50 <0.20	0.1 0.05 0.2 0.1 0.1 0.1 0.2 0.05 0.5 0.05 0.2	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544
Total Lead (mg/L) Total Magnesium (mg/L) Total Manganese (mg/L) Total Molybdenum (mg/L) Total Nickel (mg/L) Total Potassium (mg/L) Total Selenium (mg/L) Total Silica (mg/L) Total Silica (mg/L) Total Solium (mg/L) Total Solium (mg/L)		<0.10 <0.05 <0.20 <0.10 <0.10 <0.10 <0.20 <0.05 <0.50 <0.05 <0.20 <0.10	$\begin{array}{c} 0.1 \\ 0.05 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.05 \\ 0.5 \\ 0.5 \\ 0.2 \\ 0.1 \end{array}$	10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99 10/21/99	PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751 PB02751	QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544 QC03544

N/A	10/27/99	Texaco-Turner	Fast Hobbs Pool Area

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Quality Control Report Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	CL (mg/L)	110	1	62.5	168.93	94		80 - 120	0 - 20	QC03457
MS	Fluoride (mg/L)	1.8	1	12.5	13.17	91		80 - 120	0 - 20	QC03457
MS	Nitrate-N (mg/L)	5.1	1	25	28.55	94		80 - 120	0 - 20	QC03457
MS	Sulfate (mg/L)	100	1	62.5	167.90	109		80 - 120	0 - 20	QC03457
MSD	CL (mg/L)	110	1	62.5	169.24	95	1	80 - 120	0 - 20	QC03457
MSD	Fluoride (mg/L)	1.8	1	12.5	13.04	90	1	80 - 120	0 - 20	QC03457
MSD	Nitrate-N (mg/L)	5.1	1	25	28.63	94	0	80 - 120	0 - 20	QC03457
MSD	Sulfate (mg/L)	100	1	62.5	168.25	109	1	80 - 120	0 - 20	QC03457

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Aluminum (mg/L)	<0.10	1	1	1.05	79		75 - 125	0 - 20	OC03544
MS	Total Calcium (mg/L)	163	1	1000	1239	108		75 - 125	0 - 20	QC03544
MS	Total Copper (mg/L)	<0.10	1	1	1.01	101		75 - 125	0 - 20	QC03544
MS	Total Lead (mg/L)	< 0.05	1	1	0.99	99		75 - 125	0 - 20	QC03544
MS	Total Magnesium (mg/L)	44	1	1000	1122	108		75 - 125	0 - 20	QC03544
MS	Total Potassium (mg/L)	5.0	1	1000	1062	106		75 - 125	0 - 20	QC03544
MS	Total Sodium (mg/L)	60	1	1000	1134	107		75 - 125	0 - 20	QC03544
MSD	Total Aluminum (mg/L)	<0.10	1	1	1.01	75	5	75 - 125	0 - 20	QC03544
MSD	Total Calcium (mg/L)	163	1	1000	1220	106	2	75 - 125	0 - 20	QC03544
MSD	Total Copper (mg/L)	< 0.10	1	1	0.97	97	4	75 - 125	0 - 20	QC03544
MSD	Total Lead (mg/L)	< 0.05	1	1	0.95	95	4	75 - 125	0 - 20	QC03544
MSD	Total Magnesium (mg/L)	44	1	1000	1091	105	3	75 - 125	0 - 20	QC03544
MSD	Total Potassium (mg/L)	5.0	1	1000	1044	104	2	75 - 125	0 - 20	QC03544
MSD	Total Sodium (mg/L)	60	1	1000	1094	103	4	75 - 125	0 - 20	QC03544

Quality Control Report Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		38	38	1	0	0 - 20	QC03559
Duplicate	Total Alkalinity (mg/L as CaCo3)		38	38	1	0	0 - 20	QC03559

Report Da	te: 10/27/99	Order II	Number: 99	0101604			Page Nu	mber: 6 of 9	
N/A		Texaco-	Turner				East Hobbs Pool Area		
Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #	
Duplicate	Specific Conductance (uMHOS/cm)	1353	1400	1	3	0 - 20	QC03472	
Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #	
Duplicate	pH (s.u.)		7.3	7.3	1	0	0 - 20	QC03443	
Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #	
Duplicate	Total Dissolved Solids (mg/L)		449	440	1	2	0 - 20	QC03455	

Quality Control Report Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Total Aluminum (mg/L)	< 0.10	1	2	2.00	100		75 - 125	0 - 20	QC03544
LCS	Total Calcium (mg/L)	< 0.20	1	1000	1044	104		75 - 125	0 - 20	QC03544
LCS	Total Copper (mg/L)	< 0.10	1	1	2.06	103		75 - 125	0 - 20	QC03544
LCS	Total Lead (mg/L)	< 0.05	1	1	2.08	104		75 - 125	0 - 20	QC03544
LCS	Total Magnesium (mg/L)	<0.20	1	1000	1061	106		75 - 125	0 - 20	QC03544
LCS	Total Potassium (mg/L)	< 0.20	1	1000	1067	107		75 - 125	0 - 20	QC03544
LCS	Total Sodium (mg/L)	<0.20	1	1000	1052	105		75 - 125	0 - 20	QC03544
LCSD	Total Aluminum (mg/L)	<0.10	1	2	2.00	100	0	75 - 125	0 - 20	QC03544
LCSD	Total Calcium (mg/L)	<0.20	1	1000	1051	105	1	75 - 125	0 - 20	QC03544
LCSD	Total Copper (mg/L)	< 0.10	1	1	2.06	103	0	75 - 125	0 - 20	QC03544
LCSD	Total Lead (mg/L)	< 0.05	1	1	2.08	104	0	75 - 125	0 - 20	QC03544
LCSD	Total Magnesium (mg/L)	<0.20	1	1000	1059	106	0	75 - 125	0 - 20	QC03544
LCSD	Total Potassium (mg/L)	<0.20	1	1000	1081	108	1	75 - 125	0 - 20	QC03544
LCSD	Total Sodium (mg/L)	<0.20	1	1000	1061	106	1	75 - 125	0 - 20	QC03544

Quality Control Report Continuing Calibration Verification Standard

Standard	Davam	Floo	CCVs TRUE	CCVs Found	CCVs Percent	Percent Recovery	Date Analyzed	QC Batch #
	Hydrovide Alkalinity (mg/L as CaCa3)	гаg	0	<u></u>		80 120	10/22/00	0003550
ICV	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
	Pieerbonate Alkalinity (mg/L as CaCOS)	22	0	2000	0	80 120	10/22/99	QC03559
	Tetel Alkelinity (mg/L as CaCo))	2400	2110	0	80 - 120	10/22/99	QC03559
ICγ	Total Alkalinity (mg/L as CaCo3)		2400	2110	88	80 - 120	10/22/99	QC03559
CCV (1	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
CCV (1	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
CCV (1	Bicarbonate Alkalinity (mg/L as CaCo3	3)	0	220	0	80 - 120	10/22/99	QC03559
CCV (1	Total Alkalinity (mg/L as CaCo3)		2400	2220	93	80 - 120	10/22/99	QC03559
			CCVs	CCVs	CCVs	Percent	Data	OC D-t-t
C(1 1		E1	TRUE	Found	Percent	Recovery	Analyzed	
Standard	Param	Flag	Conc.	Conc.	Recovery	Limits		
ICV	Specific Conductance (uMHOS/cm)		1413	1306	92	80 - 120	10/20/99	QC03472
CCV (1	Specific Conductance (uMHOS/cm)		1413	1331	94	80 - 120	10/20/99	QC03472
,			CCVs	CCVs	CCVs	Percent		•
			TRUE	Found	Percent	Recovery	Date	QC Batch
Standard	Param	Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
ICV	CL (mg/L)		12.5	11.76	94	80 - 120	10/18/99	QC03457
ICV	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
ICV	Nitrate-N (mg/L)		5	4.84	97	80 - 120	10/18/99	QC03457
ICV	Sulfate (mg/L)		12.5	12.56	100	80 - 120	10/18/99	QC03457
CCV (1	CL (mg/L)		12.5	11.75	94	80 - 120	10/18/99	QC03457
CCV (1	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
CCV (1	Nitrate-N (mg/L)		5	4.85	97	80 - 120	10/18/99	QC03457
CCV (1	Sulfate (mg/L)		12.5	12.45	100	80 - 120	10/18/99	QC03457
			CCVs	CCVs	CCVs	Percent		
			TRUE	Found	Percent	Recovery	Date	QC Batch
Standard	Param	Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
ICV	рН (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443
CCV (1	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443
Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Dissolved Solids (mo/L)		1000	987	99	80 - 120	10/19/99	OC03455
.~ ,	(ing/L)		1000	207	//	00 120	+ 01 + 21 2 2	2003-100
CCV (1	Total Dissolved Solids (mg/L)		1000	1004	100	80 - 120	10/19/99	QC03455

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Order ID Number: 99101604 Texaco-Turner Page Number: 8 of 9 East Hobbs Pool Area

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE	CCVs Found	CCVs Percent Recovery	Percent Recovery	Date Analyzed	QC Batch #
	Total Alumínum (mg/[)	Tiag	1	0.98	08	75 - 125	10/21/00	0003544
ICV	Total Arsenic (mg/L)		1	0.90	90	75 - 125	10/21/99	QC03544
ICV	Total Barium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Boron (mg/L)		1	1.04	104	75 - 125	10/21/99	0003544
ICV	Total Cadmium (mg/L)		1	0.99	99	75 - 125	10/21/99	0003544
ICV	Total Calcium (mg/L)		20	20.0	100	75 - 125	10/21/99	0003544
ICV	Total Chromium (mg/L)		1	0.99	99	75 - 125	10/21/99	0C03544
ICV	Total Cobalt (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Copper (mg/L)		1	0.99	99	75 - 125	10/21/99	0C03544
ICV	Total Iron (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Lead (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Magnesium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Manganese (mg/L)		1	1.0	100	75 - 125	10/21/99	QC03544
ICV	Total Molybdenum (mg/L)		1	0.99	99	75 - 125	10/21/99	OC03544
ICV	Total Nickel (mg/L)		1	0.99	99	75 - 125	10/21/99	OC03544
ICV	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	OC03544
ICV	Total Selenium (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Silica (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Silver (mg/L)		0.2	0.197	99	75 - 125	10/21/99	OC03544
ICV	Total Sodium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Zinc (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
CCV (1	Total Aluminum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Arsenic (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Barium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Boron (mg/L)		1	1.02	102	75 - 125	10/21/99	QC03544
CCV (1	Total Cadmium (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Calcium (mg/L)		20	20.1	101	75 - 125	10/21/99	QC03544
CCV (1	Total Chromium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Cobalt (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Copper (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Iron (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Lead (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Magnesium (mg/L)		20	20.6	103	75 - 125	10/21/99	QC03544
CCV (1	Total Manganese (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Molybdenum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Nickel (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
CCV (1	Total Selenium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Silica (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
CCV (1	Total Silver (mg/L)		0.2	0.188	94	75 - 125	10/21/99	QC03544

Order ID Number: 99101604 Texaco-Turner

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV (1	Total Sodium (mg/L)		20	19.6	98	75 - 125	10/21/99	QC03544
CCV (1	Total Zinc (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544

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Submittal of samples cor	nstitutes agreem∉	ent to Terms and	Condit	tions list	o pe	everse	side of	C.O.	G				Carr	er #	Ber	Ą	$\tilde{\mathcal{S}}$	ろ	۱	え	5	` }	5	g	n		
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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

October 1, 1999

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO.Z 357 870 139</u>

Mr. Bill Robins III Robins, Cloud & Lubel, L.L.P. ATTORNEYS AT LAW 910 Travis, Suite 2020 Houston, Texas 77002

Re: D.F. Fergason Oil Battery located in Unit H, Sec. 30-Ts18s-R39e

Dear Mr. Robbins:

The New Mexico Oil Conservation Division (NMOCD) has received Texaco Exploration and Productions, Inc. pit closure report dated June 3, 1999 and technical information from your law firm dated February 11th and 26th, 1999 for the above captioned site. NMOCD has reviewed the information submitted and there appears to be substantial variation of data results. In order for NMOCD to properly evaluate the information submitted by Robins, Cloud & Lubel, L.L.P. and Texaco Exploration and Productions, Inc. we have the following request:

- Please provide a detailed scaled site map depicting where soil samples were collected in reference to Texaco's samples. Please find enclosed a copy of the site map submitted by Texaco for reference.
- 2. NMOCD is requesting permission to sample the water wells in question. Please make arrangements and notify NMOCD on an agreed time and date. The first three weeks in October of this year is open on our schedule at this time.

The NMOCD appreciates your cooperation in this matter. If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

AIMe

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Hobbs Office

attachments-1





Re: Request for Extension and Use of EPA Method 8015 (Modified) D. F. Fergason Lease (J. C. Turner Property), Section 30, Township 18 South, Range 39 East, Lea County, New Mexico

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) has been retained by Texaco Exploration and Production, Inc. (Texaco) to investigate alleged environmental impacts from a suspect oilfield pit(s) at the above-referenced location (Site). The purpose of this letter is to confirm our telephone conversation today pertaining to an extension for submittal of a report, and use of EPA test method 8015 (Modified) for total petroleum hydrocarbons (TPH), in connection with the above-referenced matter.

On April 26 - 28, 1999, Highlander personnel conducted an investigation at the Site. The investigation was conducted in accordance with a work plan approved by the New Mexico Oil Conservation Division (NMOCD) on February 4, 1999. In its approval letter, the NMOCD requested submittal of a comprehensive investigation report by May 3, 1999. Highlander personnel discussed an extension with Ms. Donna L. Williams of the NMOCD on April 28, 1999, which was followed up by our telephone call today. Based on our telephone call, a comprehensive investigation report will be submitted to the NMOCD on or before June 4, 1999. Also, you approved the use of EPA method 8015 modified (GRO and DRO) for TPH, rather than method 418.1, as presented in your February 4, 1999 approval letter.

Please call me at (9915) 682-4559 if you have any questions.

Sincerely, Highlander Environmental Corp.

Mark J. Larson Senior Project Manager

cc: Rodney Bailey - Texaco Robert Patterson - Texaco Donna Williams - NMOCD Hobbs



Texaco E & P

205 El Bender Blvd. Hobbs NM 88240 505 393 7191

Date: April 7, 1999

Donna Williams Environmental Engineer New Mexico Oil Conservation Division Hobbs NM 88240

Re: Pit Closure Investigation D.F. Fergason Lease NE/4 Sec 30-T 18S-R 39E RECEIVED

APR 1999

Environmental Bureau Oil Conservation Division

This is notice to inform the NMOCD Texaco has received permission to enter the J.C Turner property and conduct the investigation of the old pit area, formally known as the D.F. Fergason lease. Texaco will began drilling on this property the week of April 19, 1999. Texaco will be on site April 14, 1999 to stake the areas to be drilled.

If you have any questions call me at 505-397-0422.

Sincerely,

Rodney Briling

Rodney Bailey SH&E Professional Hobbs Operating Unit

Copy: Wayne Price

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Texaco Exploration and Production Inc 500 North Loraine Midland TX 79701 P O Box 3109 Midiand TX 79702

April 5, 1999

Ms. Donna Williams New Mexico Oil Conservation Division P. O. Box 1980 Hobbs, New Mexico 88241

Re: Pit Closure Investigation Work Plan D. F. Fergason Lease NE/4 Section 30, T-18-S, R-39-E

APR 0 1999 Environmental ourseu Oil Conservation Division

Dear Ms. Williams:

In reference to your letter of February 4, 1999 to Mr. Rodney Bailey approving our proposed plan for the subject property, you stated that Texaco must submit a report to the NMOCD by May 3, 1999. This is to advise you that we will not be able to complete the investigation by that date due to our inability to gain access to the property in a timely manner. However, since my conversation on March 31st with you and Mr. Price, our attorney received a call granting access on April 1, 1999.

The Turners, who currently own the subject property, have retained an attorney, Mr. Bill Robbins III (713-222-8080), and filed suit against Texaco and others. Since the property is in litigation, Texaco's access to the property must be obtained from the Turners' through Mr. Robbins. After writing two letters and making phone calls to Mr. Robbins requesting access, our attorney was contacted by Mr. Robbins on April 1, 1999, allowing access.

Now that access has been granted, we anticipate the project being initiated in the next two weeks. We will keep you apprised of our progress.

We appreciate your patience in this matter.

Sincerely,

Robert H. Patterson Business Unit Coordinator

RHP:cfb

Ms. Donna Williams NMOCD

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Mr. Chris Williams New Mexico Oil Conservation Division P. O. Box 1980 Hobbs, New Mexico 88241

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Mr. Wayne Price New Mexico Oil Conservation Division Oil Contracts Division 2040 S Pacheco St Santa Fe, NM 87505

Miller, Stratvert & Torgerson, P.A. Ms. Marte Lightstone 500 Marquette N.W., Suite 1100 P. O. Box 25687 Albuquerque, NM 87102

Mr. Robert Plumb, Texaco Legal, Houston Mr. Tim Miller, Texaco, Hobbs Mr. Rodney Bailey, Texaco, Hobbs 04/02/99



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

1L CONSERVATION DIVISION DISTRICT I HOBBS PO BOX 1980, Hobbs, NM 88241 (505) 393-6161 FAX (505) 393-0720

Jennifer A. Salisbury CABINET SECRETARY

February 4, 1999

Rodney Bailey Texaco E&P 205 E. Bender Blvd. Hobbs, NM 88240

Re: Pit Closure Investigation Work Plan D.F. Fergason Lease NE/4 Sec 30-Ts18s-R39e

Wayne, Price to this the the years wanted Dance

Dear Mr. Bailey:

New Mexico Oil Conservation Division (NMOCD) is in receipt of the investigation work plan dated September 28, 1998 for the above referenced facility submitted by Highlander Environmental Corp. NMOCD hereby approves of the plan with the following conditions:

- 1. NMOCD will allow field screening techniques as mentioned in the plan to delineate the migration of oilfield contaminants, except all bottom hole samples shall be collected and analyzed pursuant to EPA approved laboratory methods. Each bottom hole soil sample shall be analyzed at a minimum for BTEX (method 8020), TPH (418.1) and Chlorides.
- 2. Texaco shall notify the NMOCD Hobbs District office at least 48 hours in advance of all scheduled activities such that the NMOCD has the opportunity to witness the events and/or split samples.
- 3. Upon discovery of groundwater contamination Texaco shall notify NMOCD pursuant to Rule 116.
- 4. NMOCD approves of Texaco's initial groundwater sampling plan as contained in Appendix B, except metals shall be those listed in the New Mexico Water Quality Control Commission (WQCC) regulation standards, not RCRA metals as proposed.

Texaco shall submit a comprehensive investigation report to the NMOCD by May 3, 1999. The report shall be submitted to the NMOCD Hobbs District Office with a copy to the NMOCD Environmental Bureau.

Please be advised that NMOCD approval of this plan does not relieve Texaco of liability should their operations fail to adequately investigate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Texaco of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further information or assistance please do not hesitate to write or call me at (505-393-6161).

Sincerely,

Donna Williams Environmental Engineer Cc: Wayne Price; Chris Williams;

Price, Wayne

From:	Price, Wayne
Sent:	Tuesday, March 16, 1999 11:06 AM
To:	Williams, Donna
Cc:	Bill Olson
Subject:	Texaco Fergson approval letter

Donna!

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Please send us a copy so we may put in our files!

ROBINS, CLOUD & LUBEL, L.L.

Attorneys at Law 910 Travis, Suite 2020

HOUSTON, TEXAS 77002 TELEPHONE 713/650-1200 TELECOPY 713/650-1400

BILL ROBINS III Board Certified-Personal Injury Trial Law Texas Board of Legal Specialization E-MAIL: robins@rcllaw.com

MAR - 1 1999

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February 26, 1999

Mr. Roger Anderson Environmental Bureau Chief Oil Conservation Division State of New Mexico 2040 South Pacheco Santa Fe, New Mexico 87505

Re: D.F. Fergason Oil Battery located in Unit H, Sec. 30, T.18, R.39E

No. D 0101-CV-9801302; J.C. Turner, et al. vs. Texaco, Inc., et al.; In the First Judicial District Court - State of New Mexico - County of Santa Fe

Dear Mr. Anderson:

Enclosed please find the results of our recent soil testing. I would appreciate your considering this information, along with the other information that we have previously provided to you, in evaluating any plans submitted by Texaco.

Thank you for your cooperation.

Very truly yours,

7.-- M_1.

Bill Robins III

BRR:vjw Enclosure

CC: HOBBS

Mr. Roger Anderson Environmental Bureau Chief February 26, 1999 Page 2

1

cc: Mr. and Mrs. J.C. Turner (w/encl.) 4601 East Seminole Highway Hobbs, New Mexico 88240





Mr. Bill Robbins Robbins, Cloud & Lewbel 910 Travis Suite 2020 Houston, TX 77002 2/19/99

Dear Mr. Robbins,

Enclosed are the chemical analysis and photographs of soil samples taken on January 27, 1999 from the pit area between the Turner and Rodriguez water wells. The photographs were taken by Mr. Eddie Seay.

Please feel free to contact me if you have any questions.

Sincerely, Greg Bybee ECD Environmental, Inc.

Turner



Soil samples were taken using a backhoe. Samples were taken at two depths and analyzed for the following compounds: TPH (total petroleum hydrocarbons) and BTEX (benzene, toluene, ethylbenzene and xylene). Background soil and decon water samples were also analyzed for anions and cations. The backhoe bucket was steam cleaned before the backhoe was moved to a new sample site. All sample sites were marked with a flag and a GPS position taken.

Background Sample

A background soil sample was taken from the front of the Turner home, far away from the pit area to the south. A soft calechee layer was encounter at six feet. Sample taken at six feet. Soil was a light brown and the calechee was a bright white. There was no hydrocarbon odor.

GPS reading: 31° 43.51n, 102° 04.67w

Sample #2

Southeast corner of pit area. Samples were taken at 12" and at 4'. Discolored calechee was encountered at 3'10". Strong hydrocarbon odor.

GPS reading: 32° 43.31n, 103° 04.73w

Sample #3

Center of pit area. Samples taken at 14" and 32". Calechee was discolored and encountered at 30". Soil discolored with hydrocarbon odor.

GPS reading: 32° 43.34n, 103° 04.74w

Sample #4

Samples taken from the west side of the pit. VERY strong hydrocarbon odor. Calechee was highly discolored and very powdery. Calechee did not seem to have any structure. Samples taken at 16", 6'5" and 13'5" (the limit of the backhoe arm). Discoloration was still present at backhoe limit.

GPS reading: 32° 43.44n, 103° 04.79w

All samples were taken to Hall Environmental Laboratory for chemical analysis .



February 18, 1999

Hall Environmental Analysis Laboratory 4901 Hawkins NE, Ste. A Albuquerque, NM 87109

ECD Environmental P. O. Box 9328 Albuquerque, NM 87119

Dear Mr. Greg Bybee:

Enclosed are the results for the analyses that were requested. These were done according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely.

1/4 2/10/99

Scott Hallenbeck Laboratory Manager

Project: 9901106/Turner Rodriguez

Hall Environmental Analysis Laboratory

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Client:	ECD Environmental
Project:	Turner Rodriguez
Project Manager:	Greg Bybee
Project Number:	

Date Collected:	1/27/99
Date Received:	1/28/99
Sample Matrix:	Soil
Date Extracted:	1/27/99

EPA Method - 8021 Units: PPM(mg/kg) Methanol Field Extraction/Dry Weight Basis

HEAL			T ~ l · · · · · · ·	Ethyl-	Total	BFB %	Dilution	Date
LAB ID		Delizene	Ionene	benzene	Xylenes	Recovery	Factor	Analyzed
9901106-1	Background 6'	QN	QN	QN	QN	93	1	1/28/99
9901106-3	#2-12"	QN	QN	QN	QN	95	-	1/28/99
9901106-4	#2-4'	QN	QN	QN	QN	95	1	1/28/99
9901106-6	#3-32"	ND	ND	QN	QN	97	-	1/28/99
9901106-8	#4-6.5	<1.3	2.9	26	31	101	25	1/28/99
9901106-9	#4-13.5	<1.3	3.7	31	46	66	25	1/28/99

0.05
0.05
0.05
0.05

00164 Turner

4901 Hawkins NE, Suite A, Albuquerque, NM 87109 Ph (505) 345-3975, Fax (505) 345-4107

MRL

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Client:	ECD Environmental
Project:	Turner Rodriguez
Project Manager:	Greg Bybee
Project Number:	I

1/27/99	1/28/99	Aqueous	NA
Date Collected:	Date Received:	Sample Matrix:	Date Extracted:

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lethod -
EPA N

Units: PPB(ug/L)

HEAL LAB		2	Talitana	Ethyl-	Total	BFB %	Dilution	Date
٩	Sample IU	penzene	allanio i	benzene	Xylenes	Recovery	Factor	Analyzed
-	Reagent Blank	QN	QN	QN	QN	103	1	1/28/99

0.5 0.5 0.5 0.5

MRL

Hall Environmental
Analysis Laboratory

Client: ECD Environmental Project: Turner Rodriguez Project Manager: Greg Bybee Project Number: -

Date Collected:1/27/99Date Received:1/28/99Sample Matrix:SoilExtraction Date:1/27/99

EPA Method - 8015B GRO

Units: PPM (mg/kg) - Methanol Field Extraction - Dry Weight Basis

HEAL ID	Client ID	Dilution	Gasoline Range (mg/kg)	% BFB	Analysis Date
9901106-3	#2-12"	1	42	95	1/28/99
9901106-8	#4-6.5	25	1,900	112	1/28/99
Reagent Blank	-	1	ND	103	1/28/99



5.0

MRL

Turner 00166

00167 Turner

4901 Hawkins NE, Suite A, Albuquerque, NM 87109 Ph (505)345-3975, Fax (505) 345-4107

2A/QC							
Sample ID:	Sample Amt.	Spike	Rec.	%	Dup.	%	RPD
31ank Spike 2/1	<5.0	50	47	94	44	88	7

50	
5.0	
MRL	

Analysis Laboratory Hall Environmental

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ECD Environmental **Turner** Rodriguez Project Manager: Greg Bybee Project Number: Project: Client:

Date Collected: Date Received: Sample Matrix:

1/27/99 1/28/99 Extraction Date: 2/1/99 Soil

EPA Method - 8015B Modified DRO

Analysis Date	2/7/99	2/7/99	2/7/99
% DNOP	**	**	96
Motor Oil Range (mg/kg)	14,000	6,000	QN
Diesel Range (mg/kg)	23,000	16,000	DN
Dilution	100	40	~
Client ID	#2-12"	#4-6.5	
HEAL ID	9901106-3	9901106-8	Extracton Blank

**Surrogate not recoverable due to matrix interference and sample dilution.
Hall EnvironmentalAnalysis Laboratory

Client: Project: Project Manager: Project Number: ECD Environmental Turner Rodriguez Greg Bybee Date Collected:1/27/99Date Received:1/28/99Sample Matrix:SoilExtraction Date1/28/99

EPA Method - 418.1

HEAL ID	Client ID	Dilution	TPH (mg/kg)	Analysis Date
9901106-1	Background 6'	1	ND	1/29/99
9901106-3	#2 12"	50	38,000	1/29/99
9901106-4	#2 4'	5	910	1/29/99
9901106-5	#3 14"	20	3,100	1/29/99
9901106-6	#3 32"	50	7,000	1/29/99
9901106-7	#4 16"	20	2,700	1/29/99
9901106-8	#4 6.5	40	30,000	1/29/99
9901106-9	#4 13.5	100	28,000	1/29/99
Extraction Blank	-	1	ND	1/29/99

		MRL	20	
QA/QC			<u> </u>	
Sample ID:	Sample Amount	<u>Spike</u>	Recovery	% Recovery
BS 1/28	<20	100	100	100
Sample ID:	Sample Amount	Duplicate	RPD	
Ext. Blk. Dup 1/28	<20	<20	NA	

Sincerely:

Andy Freeman

Andy Freeman Assistant Lab Manager

4901 Hawkins NE Suite A, Albuquerque, NM 87109 Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Client:ECIProject:TurProject Manager:GreProject Number:Froject Number:

ECD Environmental Turner Rodriguez Greg Bybee Date Collected:1/27/99Date Received:1/28/99Sample Matrix:AqueousExtraction Date:2/2/99

EPA Method - 418.1

HEAL ID	Client ID	Dilution	TPH (mg/L)	Analysis Date
9901106-2	Decon H2O	1	ND	2/3/99
Extraction Blank	-	1	ND	2/3/99

		MRL	1.0	
QA/QC Sample ID: BS 2/2	Sample Amount <1.0	<u>Spike</u> 5.0	Recovery 4.6	<u>% Recovery</u> 92
<u>Sample ID:</u> Ext. Blk. Dup	Sample Amount <1.0	Duplicate <1.0	<u>RPD</u> NA	

Sincerely:

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Andy Freeman Assistant Lab Manager

Hall Environmental	Analysis Laboratory

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Client:	ECD Environmental
Project:	Turner/Rodriguez
Project Manager:	Greg Bybee
Project Number:	ı

Date Collected: Date Received: Sample Matrix:

1/27/99 1/28/99 Soil

Inorganic Compounds

HEAL LAB ID	Sample ID	Fluoride (mg/kg)	Chloride (mg/kg)	Nitrite (mg/kg)	Bromide (mg/kg))	Nitrate (mg/kg)	Sulfate (mg/kg)	o-Phosphate-P (mg/kg)
9901106-1 9901106-1 Dup	Background 6' Background 6'	1.5	3.3 3.3	<0.6 <0.6	<0.6 <0.6	3.6 3.5	7.8 6.6	<3.0<3.0
Detection Limits		0.3	0.3	0.3	0.3	0.3	1.5	1.5
Method		300.0	300.0	300.0	300.0	300.0	300.0	300.0
Date Analyzed		2/4/99	2/4/99	2/4/99	2/4/99	2/4/99	2/4/99	2/4/99

Turner 00170

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Client: Project: Project Manager: Project Number:

ECD Environmental Turner/Rodriguez Greg Bybee

Date Collected: Date Received: Sample Matrix:

1/27/99 1/28/99 Soil

Inorganic Compounds

		Sodium	Potassium	Magnesium	Calcium
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
9901106-1	Background 6'	1.4	17	0.7	120
9901106-1 Dup	Background 6'	1	1	١	130
	-				
Detection		0.3	0.3	0.3	0.3
Limits					
Method		300.0	300.0	300.0	300.0
Date Analyzed		2/17/99	2/17/99	2/17/99	2/17/99



Hall Environmental	Analysis Laboratory

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Client:	ECD Environmenta
Project:	Turner/Rodriguez
Project Manager:	Greg Bybee
Project Number:	t

Date Collected:1/27/99Date Received:1/28/99Sample Matrix:Aqueous

Inorganic Compounds

HEAL LAB ID	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	o-Phosphate-P (mg/L)
9901106-2	Decon H ₂ O	0.8	06	QN	0.6	4.4	96	QN
Detection Limits		0.1	0.1	0.1	0.1	0.1	0.5	0.5
Method		300.0	300.0	300.0	300.0	300.0	300.0	300.0
Date Analyzed		1/28/99	2/9/99	1/28/99	1/28/99	1/28/99	2/9/99	1/28/99

Turner

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	Date Collected:	1/27/99
Project:	Turner Rodriguez	Date Received:	1/28/99
Project Manager:	Greg Bybee	Sample Matrix:	Soil
Project Number:	-	Date Extracted:	NA

8021 QC: BS/BSD 1/28

Compound	Sample Amount (mg/kg)	<u>Spike</u>	Recovery	<u>% Rec</u>	<u>Dup</u>	<u>% Dup</u>	<u>RPD</u>
Benzene	<0.05	1.00	1.02	102	1.00	100	2
Toluene	<0.05	1.00	1.04	104	1.02	102	2
Ethylbenzene	<0.05	1.00	1.03	103	1.02	102	1
Total Xylenes	<0.05	3.00	3.14	105	3.07	102	2

4901 Hawkins NE, Albuquerque, NM 87109 Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory 4901 Hawkins NE, Suite A Albuquerque, New Mexico 87109 505.345.3975 Fax 505.345.4107 ANALYSIS REQUEST	Pace (Y or N) (Gasoline Only) MOD (Gas/Diesel) 21) 02, PO₄, SO₄) 60 8's (8082) 19) 02, PO₄, SO₄) 60 10) 10) 10) 10) 10) 10) 10) 10	<u>не + ТМ</u> <u>не + ТМ</u> <u>не + ТМ</u> <u>не + ТР</u> <u>не 4807581</u> <u>не 480241</u> <u>не 480241 <u>не 480241 <u>не 480241 <u>не 480241</u></u></u></u>	BTEXA MF BTEXA MF BTEX + M BTEX + M TPH (Meth TPH (Meth Volatiles Fu BCD (Meth BCD (Meth BCD (PMP BCC (PMP BCC (PMP BCC (Meth BCC (Meth	XX XX							XXX			Remarks:	Turner 00174
CHAIN-OF-CUSTODY RECORD Jient: ECD ENVIRONMENTIAL Project Name: doress: PO, BON 7335 Project #:	Albudedo N.W. Project Manager.	ax #: (5) +05-+636 Sampler (5) ax #:	Date Time Matrix Sample I.D. No. Number/Volume Hecevative HEAL No.	799 8: De Sol Balson 6 (1901106-1	1 C.H. and C.H. O. is	11 8:30 501 # 2 [2" -3	11 &: 20 42 4 4 - 4	2- "In \$:45 20 \$ 3 IU"	1 8:45 m # 3 22" -6	1- 1- 1- 1- 1- 1-1- 1-1-1-1-1-1-1-1-1-1	M 9:32 my 44 6.5	11 9:45 si 9 # 2 13.5 -9		Ale Time: Relibquished By: (Signature) Received By: (Signature)	ate: Time: Relinquished By: (\$ignature) Received By: (Signature)

The Customer shall indemnify and hold harmless HEAL from and against	any and an chante, suns, jungenteries, an areas, reases, record, expenses, i payments (axes, dutes, fines and/or other costs (including but not limited to liability to a third narry, arcting out of a) the presence of hazardous	substances in any sample of the Customer regardless of the Customer's compliance with paragraph 5.5 haroof b) accidents occurring during the	transport of any sample of the Unstorner, of events control, or d) negregence by the Custonner in the use, evaluation, or application of Results provided by HEAL.	Should any Customer sample, due to its matrix or constituents of its matrix, cause the operations of any $\rm HEAL$, instrumentation to be reduced, stopped,	or altered, HEAL is entitled to compensation by the Customer for any loss of revenue due to the instrument's downtime, and/or the parts and labor nocessary to bring the instruments back to its former operating condition. The amount of compensation is negotiable upon acceptance of these Terms	and Conditions and the individual circumstances warranting the reinbursement	ENTIRE AGREEMENT: SEVERABILITY These Terms and Conditions toocher with any additions or revisions which	much other and connexts regions are and any autors of the another inter- may be agreed to in writing by HEAL as provided in Section 7.1, embodied the whole agreement of the parties. There are no promises, terms, conditions, understandings, obligations or agreements to the than those conditions in these made in secondarce with Section 1.1, and these	Terms and Conditions shall supersult around the mount of	The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the ivalidity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provisions be severable.	AMENDMENTS AND WAIVERS HEAL chail no be exhibed to or bound by our invuision term or condition	which is in addition to or inconsistent or conflicting with these Terms and Conditions. HEAL shall not be deemed to have amended or waived and	provision, farm or condution, or have general any required conseart on spproval, or to have waived any breach by the Customer of any of these Terms and Conditions unless specifically set forth in writing and executed on behalf of HEAL by a duby authorized officer. No other employee, servant, agent of	representatives on tractal mas any autoury wataaveer to act or detect, atter or very any of these Prams and Conditions in any manner, or to give any consent, approval or waiver, and HEAL shall not be bound by any such purported addition, deletion, alteration, variation, consent, approval or waiver.	No waiver by HEAL of any provision, term or condition hereof or of any breach by or obligation of the Customer hereunder shall constitute a waive of such provision, term or condition on any other occasion or a waiver any other breach by or obligation of the Customer.	SAMPLE STORAGE	Bulk samples will be retained for thirty (30) days after the analytical report has been issued unless alternate arrangements have been made in advance. Storage of samples or extracts for longer periods is by request only. Sample storage depend upon storage requirements and darabon. Nonunally, a sample storage fee of 55.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material	may be returned at the cirent's expense. Materiala, which are identified as hazardous, will be returned to the cirent or disposed of as hazardous waste and billed at the rate of \$25 00 per sample. HEAL reserves the right to return all diberzodioxins/diberzofurans to the dient.	The section headings of these Terms and Conditions are intended solely for conversient reference and shall not define, limit or affect in any way These Terms and Conditions or their intermetations	COVERNING LAW These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.
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methodologies, if necessary or appropriate due to the nature of commercition of the commission solution of the commission based on the concession	composition of the sample of outer ways used on the resolution judgement of the AL, which deviation is farry will be made on a basis consistent with recoverized standards of industry and or HEAL. S	Standard Operating Procedures.	4.4 Upon tunely deitvery of samples, His.J. will use its best efforts to comply with storage, processing and analytical holding time limits as set forth in appliable EPA or a state guidelines or otherwise requested by the Cherness or set forth nor the bree. Schedule Hornesser unless	costoner or act your on the The Contract. However, hands a period for a provident provident of a written agreement between H1AL and the Customer, such time limits cannot be guaranteed. Unless specifically	indicated on the Price Schedule or expressly made part of a written agreement between HEAL and the Customer, analytical furnaround times are not guaranteed.	4.5 At HEAL'S sole discretion, verbal Results may be given in advance of the written report of Results. Such verbal Results are TENTATIVE RESULTS ONLY, subject to confirmation or change based on HEAL'S	standard quality assurance review procedures. 5. WARRANTIES 11ARH JTV AND INDEMNIER CATION	5.1 HEAL warrants only that its services will fulfill obligations set forth in Scatton 4.3 and 4 threefor This warranty is the sole and exclusive warranty view hy the R.1 in connection why is the sole and exclusive	HEAL gives and makes no other representation or warranty of any kind, express or implied. No representative of HEAL is authorized to give or make any other representation or warranty or modify the warranty in any way.	5.2 The liability and obligations of HEAL, and the remedies of the Customer in connection with any services performed by HEAL will be limited to repeating the services performed or, at the sole option of HEAL, refunding in full or in part fees paid by the Customer for such services. HEAL 'S obligation to repeat any services with respect to any sample will be comingent on the Customer's providing, at the request of	HEAL and at the Customer's expense, an additional sample if necessary. Any reanabivity expensions frequencies on the Chignal Results will be at the Chiertener's extension Excert as chemerics expection.	protect and therein, HEAL shall have no liability, obligation of responsibility of any kind for any losses, costs, expenses, or other	damages (including but not limited to any specaal, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.	2.3 ULL OF CHART AT FLAL, IN the set any respringuinty of nationality (or the Customer for any lialure or delay in performance by HEAL, which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of HEAL. Such ause and circumstance shall include, but not be limited to, acts of God, acts of Customer, acts of orders of any government authority, strikes or other Customer, acts of orders of any government authority, strikes or other	labor disputes, natural disasters, accidents, wars, civil disputes, difficulties or delays in transportation, mail or delivery services, inability to obtain from HEAL usual sources sufficient services or supplies, or any other cause beyond HEAL'S reasonable control.	5.4 All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by	Customers or third partics. All results should be considered in their entirety, and HEAL is in no way responsible for the separation, detachment, or other use of any portion of the results. The customer represents and warrants that any sample delivered to HEAL will be proceeded or accompanied by complete written disclosure	of the presence of any lazations substances known or supported by the customer. The Customer further warrants that any sample containing any hazardous substance, which is to be delayered to HEAL's premises will be packaged, labeled, transported and delivered property and in accordance with applicable laws.	representations according to the second and according to an occurring or interviews containing heardous contaminants are the property and the responsibility of the Customer. All contaminated samples and laboratory howoohred will be returned to the Ortherner for discoveral. It	is understood and agreed that HEAL is not, and has no responsibility as, a generator, treater, storer, or dispose of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing Turner 00175
	DEFINITIONS	"Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.	"('tustonuet" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives	HEAL means Hall Environmental Analysis Laboratory its employees, stryants apoils and remeentations	••••••••••••••••••••••••••••••••••••	"Results" mean data generated by HEAL from the analysis of one or more samples	"Terms and Conditions" incan these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto	which are agreed to in writing by HEAL as provided in Section 7.1 ERS	The customer may order services by submitting a written purchase order to HLAL, by placing a telephone order, which will be subsequently confirmed in writing, or by negotated contract. Any such order constitutes a) an acceptance by the Customer of HEAL'S offer to do business with the	Customer under these Terms and Conditions, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer's express assent to be governed by these Terms and Conditions. HEAL reserves the right to refuse to proceed with work at any time based upon an unfavorable customer credit report.	Any order placed by the Customer under Section 2.1 is subject to a mutuitnum cancellation charge of \$250.	MENT TERMS	Services performed by HEAL, will be in accordance with prices quoted and late confirmed in writing or as stated on the Prices Sciendule, which prices are subject to change periodically without notice. The Customer about confirm with HEAL the current price prior to placing an order for work.	Payment terms are net 30 days from the date of invoice by HEAL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1, %) per month or portion thereof from the date date until the date of payment. All payments shall be made in United State	ouriency. The prices stated on the Price Schedule do not include any sales, use or other taxes unless specifically stated. Such taxes will be added to invotee prices when required.	SIPT OF SAMPLES AND DELIVERY OF SERVICES	Prior to HEAL'S Accorptance of any sample (or after any revocation of Accorptance), the entitie risk of loss or damage to such sample will ternain with the Custemer. In no event will HEAL have any responsibility or liability for the action or maction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.	HEAL reserves the absolute right, exercisable at any time to refuse delivery of, refuse to accept, or revoke Acceptance or, any sample which in the sole judgement of HEAL a) is of unsuitable volume. b) unsuitable contaners as required for the requested analysis, or c) may be or become unsultable for, or may pave a nsk in, handling, transport or processing for any health, safety, any other reason, whether or no due to the preserve in	the sample of any hazardous substance and whether or not such presence has been disclosed to HEAL by the Customer.	Where applicable, HEAL will use analytical methodologies which are in substantial conformity with U.S. Environmental Protection Agency (EPA), state agency, American Stocerty for Testing and Materials (ASTM), Association of Official Analytical Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. IEAL, reserves the right to deviate from these methodologies. IEAL, reserves the right to deviate from these
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ROBINS, CLOUD & LUBEL, L.L.P.

ATTORNEYS AT LAW

910 TRAVIS, SUITE 2020

HOUSTON, TEXAS 77002

TELEPHONE 713/650-1200 TELECOPY 713/650-1400

BILL ROBINS III Board Certified-Personal Injury Trial Law Texas Board of Legal Specialization E-MAIL: robins@rcllaw.com

February 11, 1999

FEB | 6 1999

Contraction of the second

Mr. Roger Anderson Environmental Bureau Chief Oil Conservation Division State of New Mexico 2040 South Pacheco Santa Fe, New Mexico 87505

Re: D.F. Fergason Oil Battery located in Unit H, Sec. 30, T.18, R.39E

No. D 0101-CV-9801302; *J.C. Turner, et al. vs. Texaco, Inc., et al.*; In the First Judicial District Court - State of New Mexico - County of Santa Fe

Dear Mr. Anderson:

Enclosed please find recent test results from the water wells on my clients' property. As you will determine from these test results, it appears that our clients' water wells have been impacted by toluene and other contaminants. My clients are very concerned about the health affects of their exposure to these substances. They have been using these water wells for many years. Upon receipt of these test results, we immediately instructed our clients to cease using these water wells for consumption. We have also recently taken additional soil samples and will provide those to you upon receipt.

It is my understanding that the OCD has requested that Texaco provide it with a plan to remedy the situation at or near my clients' property with respect to the large pit associated with the D.F. Fergason Oil Battery. My clients would very much appreciate your considering these test results in evaluating any plan Texaco may submit regarding the clean-up operations.

Mr. Roger Anderson February 11, 1999 Page 2

Thank you very much for your cooperation in this matter. If I need to take any further action, please do not hesitate to contact me.

Very truly yours,

N.i. M-in

Bill Robins III

BRR:vjw Enclosure

cc: Mr. and Mrs. J.C. Turner (w/encl.) 4601 East Seminole Highway Hobbs, New Mexico 88240



NOV 1 9 1998 ECD Environmental, Inc.

> P.O. Box 9328 Albuquerque, NM 87119-9328 Telephone 505 / 768-7686 Fax 505 / 768-7601

Mr. Bill Robbins Robbins, Cloud & Lewbel 910 Travis Suite 2020 Houston, TX 77002 11/16/98

Dear Mr. Robbins,

Enclosed is the chemical analysis data on the water samples obtained from the Turner and Rodriguez water wells. The samples were taken 10/28/98. Please feel free to contact me if you have any questions.

Sinderely, Greg Byblee ECD Environmental



Hall Environmental Analysis Laboratory 4901 Hawkins NE Suite A Albuguerque, NM 87109 11/12/98

ECD Environmental P. O. Box 9328 Albuquerque, NM 87119

Dear Mr. Greg Bybee,

Enclosed are the results for the analyses that were requested. These were done according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely:

Andy Freeman Assistant Lab Manager

Project: 9810128 - Turner/Rodriguez

4901 Hawkins NE, Suite A, Albuquerque, NM 87109 Ph (505) 345-3975, Fax (505) 345-4107



Client: Project: Project Manager: Project Number: ECD Turner/Rodriguez Greg Bybee Date Collected:10/28/98Date Received:10/30/98Sample Matrix:AqueousExtraction Date:11/4/98

EPA Method - 418.1

HEAL ID	Client ID	Dilution	TPH (mg/L)	Analysis Date
9810128-5	Background	1	ND	11/5/98
Extraction Blank	-	1	ND	11/5/98

		MRL	1.0	_
QA/QC Sample ID:	Sample Amount	Spike	Recovery	
Blank Spike 11/4	<1.0	5.0	3.9	78
Sample ID:	Sample Amount	Duplicate	RPD	
Blank Duplicate 11/4	<1.0	<1.0	NA	

Sincerely:

Trees

Andy Freeman Semi Volatiles Supervisor

4901 Hawkins NE Suite A, Albuquerque, NM 87109 Ph (505) 345-3975, Fax (505) 345-4107



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 Client:
 ECD Environmental

 Project:
 Turner/Rodriguez

 Project Manager:
 Greg Bybee

 Project Number:

Date Collected: Date Received: Sample Matrix:

10/28/98 10/30/98 Aqueous

Inorganic Compounds

HEAL LAB		Fluoride	Chloride	Bromide	Nitrate/Nitrite	Sulfate	o-Phosphate-P
Q		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
9810128-5	Background	1.6	44	0.4	2.8	78	QN
9810128-5	Background Dup	1.6	45	0.4	2.8	ı	QN
Detection		0.1	0.1	0.1	0.1	0.5	0.5
Method		300.0	300.0	300.0	300.0	300.0	300.0
Date Analyzed		10/29/98	10/29/98	10/29/98	10/29/98	11/9/98	10/29/98



Analysis Laboratory Hall Environmental

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Project Manager: Project Number: Project: Client:

ECD Environmental Turner/Rodriguez Greg Bybee

10/28/98 10/30/98 Aqueous Date Collected: Date Received: Sample Matrix:

Inorganic Compounds

		Sodium	Potassium	Magnesium	Calcium
HEAL LAB IU	Sample ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)
9810128-5	Background	36	2.7	20	70
9810128-5	Background Dup	37		21	72
Detection		0.1	0.1	0.1	0.1
Limits					
Method		300.0	300.0	300.0	300.0
Date Analvzed		11/11/98	11/11/98	11/11/98	11/11/98

11/11/98

Date Analyzed



Hall Environmental Analysis Laboratory 4901 Hawkins NE Suite A Albuquerque, NM 87109 11/12/98

ECD Environmental P. O. Box 9328 Albuquerque, NM 87119

Dear Mr. Greg Bybee,

Enclosed are the results for the analyses that were requested. These were done according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely:

Andy Freemán Assistant Lab Manager

Project: 9810128 - Turner/Rodriguez

4901 Hawkins NE, Suite A, Albuquerque, NM 87109 Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

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> Client: ECD | Project: Turne Project Manager: Greg Project Number:

ECD Environmental Turner/Rodriguez Greg Bybee

Date Collected:10/Date Received:10Sample Matrix:AqDate Extracted:NA

10/28/98 10/30/98 Aqueous NA

EPA Method - 8021 Units: PPB(ug/L)

HEAL LAB	Cl olamo	MTDF	Donzono	Toluono	Ethyl-	Total	1 2 E TMD	DAT LC L	BFB %	Dilution	Date
<u>0</u>			Delizeile		benzene	Xylenes		1,2,4-1 110	Recovery	Factor	Analyzed
9810128-1	TH Well #11st Purge	QN	QN	QN	QN	QN	QN	QN	98	1	11/2/98
9810128-2	TH Well #1	QN	QN	1.8	QN	QN	QN	QN	101	-	11/2/98
9810128-3 F	RH Well #11st Purge	QN	QN	QN	QN	QN	QN	QN	92	-	11/2/98
9810128-4	RH Well #1	QN	QN	1.6	QN	QN	QN	QN	95	-	11/2/98
9810128-6	Trip Blank	QN	QN	0.5	QN	QN	QN	QN	67	-	11/2/98
	Reagent Blank	QN	QN	QN	QN	QN	QN	QN	100		11/2/98

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Client: Project: Project Manager: Project Number: ECD Environmental Turner/Rodriguez Greg Bybee Date Collected:10/28/98Date Received:10/30/98Sample Matrix:AqueousExtraction Date:11/4/98

EPA Method - 418.1

HEAL ID	Client ID	Dilution	TPH (mg/L)	Analysis Date
9810128-2	Turner House Well #1	1	19	11/5/98
9810128-4	Rodriguez House Well	1	2.6	11/5/98
Extraction Blank	*	1	ND	11/5/98

		MRL	1.0]
<u>QA/QC</u> <u>Sample ID:</u> Blank Spike 11/4	Sample Amount <1.0	<u>Spike</u> 5.0	<u>Recovery</u> 3.9	<u>% Recovery</u> 78
<u>Sample ID:</u> Blank Dup. 11/4	Sample Amount <1.0	Duplicate <1.0	<u>RPD</u> NA	

Sincerely:

Andy Freeman Semi Volatiles Supervisor

Hall Environmental Analysis Laboratory

 Client:
 ECD Environmental
 Date

 Project:
 Turmer/Rodriguez
 Date

 Project Manager:
 Greg Bybee
 Sam

 Project Number:
 Greg Bybee
 Sam

Date Collected: Date Received: Sample Matrix:

10/28/98 10/30/98 Aqueous

Inorganic Compounds

HEAL LAB	Sample ID	Fluoride	Chloride	Bromide	Nitrate/Nitrite	Sulfate	o-Phosphate-P
ID		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
9810128-2	TH Well #1	1.0	94	0.9	3.6	88	O Q
9810128-4	RH Well	0.8	27/0	2.4	3.4	130	N

Detection	0.1	0.1	0.1	0.1	0.5	0.5
Method	300.0	300.0	300.0	300.0	300.0	300.0
Date Analyzed	10/29/98	10/29/98	10/29/98	10/29/98	11/9/98	10/29/98

Hall

Hall Environmental Analysis Laboratory

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Client: Project: Project Manager: Project Number:

ECD Environmental Turner/Rodriguez Greg Bybee

Date Collected: Date Received: Sample Matrix:

10/28/98 10/30/98 Aqueous

Inorganic Compounds

HEAL LAB ID	Sample ID	Sodium (mg/L)	Potassium (mg/L)	Magnesium (mg/L)	Calcium (mg/L)
<u>9810128-2</u>	TH Well #1	48	2.5	21	87
9810128-4	RH Well	64	3.3	40	150

Detection	0.1	0.1	0.1	0.1
Limits				
Method	300.0	300.0	300.0	300.0
Date Analyzed	11/11/98	11/11/98	11/11/98	11/11/98

4901 Hawkins NE, Suite A, Albuquerque, NM 87109 Ph (505) 345-3975, Fax 345-4107

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	Date Collected:	10/28/98
Project:	Turner/Rodriguez	Date Received:	10/30/98
Project Manager:	Greg Bybee	Sample Matrix:	Aqueous
Project Number:		Date Extracted:	NA

CHE HERE'S

STRATES IN THE PARTY OF

8021 QC: 9810128-3 MS/MSD 11/2/98

Compound	Sample Amount (ug/L)	<u>Spike</u>	Recovery % Rec	Dup	<u>% Dup</u>	<u>RPD</u>
MTBE	<2.5	40.0	40.0 94	40.4	101	1
Benzene	<0.5	20.0	20.1 102	20.1	101	0
Toluene	<0.5	20.0	19.8 99	20.0	100	1
Ethylbenzene	<0.5	20.0	20.0 100	20.1	101	0
Total Xylenes	<0.5	60.0	60.7 101	60.8	101	0
1,3,5-TMB	<0.5	20.0	20.8 104	21.0	105	1
1,2,4 - TMB	<0.5	20.0	20.9 105	20.7	104	1

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Price, Wayne

From:	Price, Wayne
Sent:	Tuesday, February 02, 1999 2:48 PM
То:	Williams, Donna
Cc:	'Chris Williams'
Subject:	Texaco Fergason Draft

Donna! This is in word!





205 E. Bender Blvd. Hobbs NM 88240 505 393 7191

October 1, 1998

Chris Williams District 1 Supervisor Oil Conservation Division Hobbs, New Mexico

Re: D.F. Fergason Work plan

Dear Mr. Williams:

In response to your letter of August 25, 1998, Texaco Exploration and Production Inc. (TEPI) requested Highlander Environmental Corp. to prepare a work plan to investigate the pit closure on the D.F. Fergason lease. Attached is the work plan for the site as developed by Highlander.

TEPI is submitting this work plan in the spirit of cooperation with the Oil Conservation Division (OCD) and will continue to cooperate with the OCD to gather data regarding the pit closure. However, by submitting this work plan, TEPI does not admit responsibility for any remedial action.

Should you desire to discuss this work plan please advise. If you approve of the plan we are prepared to start with the assessment as soon as we make arrangements with the landowner for access.

Holwey Dailey

Rodney Bailey EHS Professional Hobbs Operating Unit

Wayke, Dhave reviewed this and an upitting For your response. Thanks



Highlander Environmental Corp.

Midland, Texas

September 28, 1998

Mr. Chris Williams District 1 Supervisor Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department P. O. Box 1980 Hobbs, New Mexico 88241

Re: Scope of Work for Pit Closure Investigation, Texaco Exploration and Production, Inc., D. F. Fergason Lease, Northeast Quarter, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico

Dear Mr. Williams:

Texaco Exploration and Production, Inc. (Texaco) has requested Highlander Environmental Corp. (Highlander) to prepare a scope of work to investigate a former emergency overflow pit (Site) at the D. F. Fergason Lease, located approximately two mile east of Hobbs, New Mexico. The Site is located in the northeast quarter (NE/4), Section 30, Township 18 South, Range 39 East, Lea County, New Mexico. Figure 1 presents a Site location and topographic map.

1.0 Background

On August 25, 1998, the New Mexico Oil Conservation Division (OCD) requested that Texaco submit a work plan to investigate closure of the pit. Appendix A presents correspondence from the OCD. On July 7, 1998 and July 16, 1998, Texaco had submitted correspondence to the OCD regarding its operation of the Site. Prior to about 1969, Texaco operated the Site for temporary containment of oil and gas waste (i.e., oil, produced water, etc.) during upset conditions or unscheduled shutdown of its tank battery. Texaco sold its interest at the D. F. Fergason Lease in 1969, and aerial photographs indicate that the Site may have been closed at that time. The Site is mainly covered by caliche and measures approximately 200 x 300 feet.

2.0 Scope of Work

The purpose of the investigation is to assess the presence and extent of oil and gas wastes at the Site, and to determine the potential for impact to subsurface soil and groundwater. The investigation will include installation of rotary drilled borings and collection of soil samples for laboratory tests. Monitoring wells may be installed for collection of groundwater samples if the investigation suggests that oil and gas wastes, if present, have affected groundwater. Mr. Chris Williams September 28, 1998 Page 2

Three (3) to five (5) soil borings may be installed at the Site to determine the presence of oil and gas wastes and to evaluate the potential for impacts to groundwater. The borings will be drilled using a truck-mounted air rotary drilling rig and soil samples will be collected approximately every ten (10) feet for field and possible laboratory analysis. The soil samples may be collected using a split-spoon sampler, if possible. However, if soil conditions prohibit use of the split-spoon sampler, or equivalent devise, the samples will be collected as drill cuttings exit the borehole. The soil samples will be placed in clean glass sample containers, and a portion of the sample will be retained in a clean sample bag for soil headspace gas analysis. Should the concentration of petroleum hydrocarbons observed from the soil headspace analysis decrease below measurable levels prior to encountering groundwater, drilling will cease, and the soil boring will be plugged. If plugged, the boring(s) will be filled to ground surface with cement and bentonite grout. However, if soil headspace analysis suggest that oil and gas wastes have migrated to groundwater, monitoring wells may be installed. Texaco will work with the OCD to select monitoring well locations. Soil cuttings from drilling will be placed on plastic adjacent to the borings and covered until disposal is arranged.

The soil samples will be field screened for petroleum hydrocarbons using the Ambient Temperature Headspace (ATH) method. The ATH method consists of collecting a discrete or composite soil sample and placing the sample in a clean plastic sample bag, leaving a vacant headspace in the top of the bag. The bag is sealed and after approximately fifteen minutes at ambient temperature storage, the concentration of organic vapors in the sample bag headspace is measured using a photoionization detector (PID). A Thermo Environmental Instruments, Model 580B, Organic Vapor Meter, calibrated to a 75 parts per million (ppm) isobutylene standard, will be used to measure the headspace. The PID has a detection limit of 0.1 ppm. The soil headspace gas analysis will be used to evaluate soil samples for possible laboratory tests.

According to OCD guidelines (Guidelines for Unlined Surface Impoundment Closure, February 1993), a soil headspace gas measurement of 100 ppm may be substituted for laboratory analysis of benzene and total BTEX (sum of benzene, toluene, ethylbenzene and xylene). However, a headspace gas analysis cannot be substituted for total petroleum hydrocarbon (TPH) analysis. The soil sample exhibiting the highest headspace gas reading and the lower most sample collected from the borings will be selected for laboratory analysis. If the soil samples exhibit headspace gas readings above 100 ppm, the samples will be analyzed for benzene, total BTEX and TPH. However, if the samples exhibit headspace gas readings below 100 ppm, then the samples will only be tested for TPH.

If soil sample field screening strongly suggests that groundwater has been affected from oil and gas waste, and it is determined that one or more groundwater monitoring wells may be required, the monitoring wells will be installed in accordance with procedures presented in Appendix B. All down-hole equipment (i.e., drilling rods, bit, etc.) will be thoroughly decontaminated between each use with a high-pressure hot water wash and rinse. All soil sampling equipment (i.e., split-spoon sampler, samples trowels, etc.) will be thoroughly washed between events with potable water and Mr. Chris Williams September 28, 1998 Page 3

laboratory-grade detergent and rinsed with distilled water.

Upon receipt of analytical data from the laboratory, Highlander will review all data and prepare a report for submittal to Texaco and the OCD summarizing the investigation results. Please call if you have questions.

Respectfully yours, Highlander Environmental Corp.

Mark J. Larson Senior Project Manager

Encl.

cc: Mr. Rodney Bailey, Texaco Mr. Larry Hall, Texaco



FIGURES



APPENDIX A

OCD CORRESPONDENCE

Highlander Environmental Corp.

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT 0157RIGT / HOBSA DISTRICT / HOBSA PO BOX 1950, HOBSA, NM 18241 (505) 333-6161 FAX (505) 383-6720

Jonnifer A. Salisbury CABINET SECRETART

August 25, 1998

Mr. L.R. Hall -Texaco North America Production (TNAP) P.O. Box 3109 Midland, Tx 79702

Re: D.F. Fergason Lease NE/4 Sec 30-Ts18s-R39e

Dear Mr. Hall:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your correspondence dated July 7 and July 16, 1998 concerning the above referenced site. It appears that TNAP closed the pit located on the above location.

In order to ensure protection of public health, fresh water and the environment, NMOCD is requiring TNAP to submit within 30 days of receipt of this letter a pit closure investigation and work plan for NMOCD approval. The NMOCD will review the plan and approve as is or with conditions. Please note the NMOCD can allow additional time for a good cause shown.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

his Williams

Chris Williams-NMOCD District I Supervisor

file: wp98/ferpit

cc: Gallagher, Lewis & Downey-Houston, Tx

OIL CONSERVATION DIVISION . DISTRICT | Hobbi - P.O. Box 1980 - Hobba, NM 88241-1980 - (505) 393-6161 FAX (505) 393-0720

APPENDIX B

Procedures

for Monitoring Well Installation, Development and Groundwater Sample Collection

Highlander Environmental Corp.

Midland, Texas

Procedures

for

Monitoring Well Installation, Development and Groundwater Sample Collection

Groundwater monitoring wells may be installed at the Site to evaluate groundwater quality. Records of the New Mexico State Engineer's office indicate that groundwater occurs in the vicinity of the Site, and varies from about 70 to 80 feet below ground surface (BGS). If installed, the monitoring wells will be drilled approximately 15 feet into the upper groundwater zone. The wells will be constructed using two (2) inch diameter schedule 40 PVC threaded casing and factory slotted screen. The well screen, approximately twenty (20) feet in length, will be installed in the drilled boring with about five (5) feet of screen above the groundwater and about fifteen (15) feet into the groundwater. The well screen will be surrounded with a graded silica sand to a depth approximately 2 feet above the screen. A layer of bentonite pellets, approximately 2 feet thick, will be placed in the annulus above the sand and hydrated with potable water. The remainder of the annulus will be filled with cement and bentonite grout to about one foot below ground. The well will be scured with a locking cap and steel protector anchored in a concrete pad measuring approximately 3 feet by 3 feet.

The wells will be developed following installation to remove fine-grained sediment disturbed during drilling, and prior to collection of groundwater samples. The well will be developed by bailing or pumping with a submersible pump. Water removed from the wells will be placed in an appropriate container (i.e., 55-gallon drums, portable tank, etc.) and stored at the Site until disposal is arranged. After well development, groundwater samples will be collected and analyzed for BTEX, major cations and anions, total dissolved solids (TDS), dissolved metals (RCRA 8) and polynuclear aromatic hydrocarbons (PAH). Samples for metals will be filtered in the field prior to submittal to the laboratory. The well will be inspected for the presence of phase-separated hydrocarbons (PSH) and, if present, a sample will be collected and analyzed by gas chromatography (GC) to determine composition and possible source. If PSH is detected in a monitor well groundwater samples will not be collected from the well. All samples will be delivered to the laboratory via overnight delivery and under chain-of-custody control. Quality Assurance/Quality Control (QA/QC) samples (i.e., duplicate, trip blank, field blank, etc.) will be collected during the investigation for data validation.

All groundwater sampling equipment (i.e., water level indicator, interface probe, submersible pump, etc.) will be thoroughly washed between events with potable water and laboratory-grade detergent and rinsed with distilled water.





205 E. Bender Blvd. Hobbs NM 88240 505 393 7191

September 21, 1998

Mr. Chris Williams NMOCD **District I Supervisor**

Re: D.F. Fergason Lease NE/4 Sec 30-T 18S-R 39E

Dear Mr. Williams

In response to your letter dated August 25, 1998, Texaco is in receipt of a draft copy of a work plan for investigating the pit closure on the D.F. Fergason lease. This plan is being developed by Highlander Environmental Corp. Texaco is currently reviewing the draft copy. It is apparent we can not meet the September 25, 1998 deadline. Texaco would like to ask for a 10-day extension to complete the review and final copy printing.

Thank you for your understanding and assistance in this matter. If you have any questions please call me at 505-397-0422.

Rodney Bailey EHS Professional Hobbs Operating Unit

OK-Chris Williams



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION DISTRICT I HOBBS PO BOX 1980, Hobbs, NM 88241 (505) 393-6161 FAX (505) 393-0720

Jennifer A. Salisbury CABINET SECRETARY

August 25, 1998

Mr. L.R. Hall Texaco North America Production (TNAP) P.O. Box 3109 Midland, Tx 79702

Re: D.F. Fergason Lease NE/4 Sec 30-Ts18s-R39e

Dear Mr. Hall:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your correspondence dated July 7 and July 16, 1998 concerning the above referenced site. It appears that TNAP closed the pit located on the above location.

In order to ensure protection of public health, fresh water and the environment, NMOCD is requiring TNAP to submit within 30 days of receipt of this letter a pit closure investigation and work plan for NMOCD approval. The NMOCD will review the plan and approve as is or with conditions. Please note the NMOCD can allow additional time for a good cause shown.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Chris Williams

Chris Williams-NMOCD District I Supervisor

file: wp98/ferpit

cc: Gallagher, Lewis & Downey-Houston, Tx

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

June 11, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-235-437-288

Mr. Bill Robins III Gallagher, Lewis & Downey 40th Floor, Nations Bank Center 700 Louisiana Houston, Texas 77002

RE: FORMER UNLINED PIT AND SPILL AREA TEXACO FERGASON TANK BATTERY/ARCO PIPELINE SPILL

Dear Mr. Robins:

The New Mexico Oil Conservation Division (OCD) has reviewed Gallagher, Lewis & Downey's January 29, 1998 correspondence which states that the water wells of Mr. J.C. Turner and Ms. Idolina Rodriguez have been sampled and found to be contaminated as a result of a former Texaco unlined pit at the D.F. Fergason Tank Battery and a former Arco Pipeline spill located in Unit H, Sec. 30, T18N, R39E, NMPM, Lea County, New Mexico.

In order to initiate a ground water assessment and to be able to assess potential health impacts from contaminants in these water wells, the OCD requests that you provide a copy of the laboratory analytical data sheets of all water quality samples taken from the Turner and Rodriguez water wells.

If you have any questions, please call me at (505) 827-7152 or Bill Olson of my staff at (505) 827-7154.

Sincerely,

Roger C. Anderson Environmental Bureau Chief

xc: Wayne Price, OCD Hobbs District Office
Z 235 437 288

US Postal Service **Receipt for Certified Mail** No Insurance Coverage Provided. Do not use for International Mail (See reverse) Sent to

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Dear Roger,

Please note I am dropping in the US Mail today a copy of a letter and my response to a law firm making an inquiry concerning an old Texaco Pit and groundwater contamination out in the East Hobbs Pool Water Study Area.

This area is located just east of Hobbs, NM and adjacent to the NM-Texas State line.



NEW MEXICO ENERGY, MINERALS & NATURAL RESCURCES DEPARTMENT

Jennifer A. Salisbury CABINET BECRETARY

February 11, 1998

Bill Robins III Gallagher, Lewis & Downey NationsBank Center 40th Floor 700 Louisiana Houston, Texas 77002

Re: D.F. Fergason Oil Battery located in Unit H, Sec 30-T18s-R39e

Dear Mr. Robins III:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your letter dated January 29, 1998 concerning groundwater and oilfield contamination at and/or near the above referenced site.

Please note groundwater contamination cases are normally handled by the NMOCD Environmental Bureau located at 2040 S. Pacheco, Santa Fe, NM 87505. The NMOCD District I office in Hobbs, NM is forwarding your letter to the NMOCD Environmental Bureau Chief, Mr. Roger Anderson. Mr. Anderson can be contacted by telephone at 505-827-7152.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Varrel in

Wayne Price-Environmental Engineer

cc: Chris Williams-NMOCD District I Supervisor Roger Anderson-Environmental Bureau Chief, Santa Fe, NM Rand Carroll-NMOCD Legal Counsel File- East Hobbs Pool Water Study

GALLAGHER, LEWIS & DOWNEY

ATTORNEYS AT LAW

40th Floor NationsBank Center 700 Louisiana Houston, Texas 77002 Telephone 713/222-8080 Telecopy 713/222-0066

Bill Robins III Board Certified-Personal Injury Trial Law Texas Board of Legal Specialization

January 29, 1998



Direct Line 713/238-7880

Mr. Wayne Price Environmental State of New Mexico Oil Conservation Division P.O. Box 1980 Hobbs, New Mexico 88240

Re: D.F. Fergason Oil Battery located in Unit H, Sect. 30, T. 18, R. 39 E.

Dear Mr. Price:

Our law firm represents J.C. Turner and his wife, Donna Turner, as well as Idolina Rodriguez. Mr. and Mrs. Turner own a property located at 4601 East Seminole Highway, Hobbs, New Mexico 88240. Mr. and Mrs. Turner have been living at this address since 1987. During the last approximately ten years, Mr. Turner has been attempting to grow crops on his land. However, on an approximately five acre portion of his property, Mr. Turner was unable to successfully grow any crops or vegetation, despite extensive efforts at discing, tilling, plowing, and also, by adding many kinds of fertilizer. In fact, despite his efforts, the land appeared to be sterile.

This sterile area actually was a large pit associated with the D.F. Fergason Oil Battery located in Unit H, Section 30, T. 18, R. 39 E. This property was drilled and operated by Texaco for many years. It was subsequently operated by Martindale Petroleum Corporation, Hillin-Simon Oil Company, Marshall R. Young Oil Company, and Fredonia Resources, Inc., as well as possibly others.

Recently, Mr. Turner learned the old pit posed a serious health hazard to him and his family. In December, 1996, Mr. Turner filed a complaint about the pit area with the State of New Mexico -Oil Conservation Division. In addition, Mr. Turner also notified the above-listed operators by letter dated January 27, 1997. Water wells on Mr. and Mrs. Turner's property were sampled and have been impacted by contaminants. In addition, the water well of Ms. Rodriguez, who lives adjacent to the old pit area, has also been impacted. Mr. Wayne Price Environmental State of New Mexico OCD January 29, 1998 Page 2



In April, 1997, Texaco's environmental person, Rodney Bailey, came to the property with consultants from Highlander Environmental and did sampling of the soil. Eddie Seay, with Eddie Seay Consulting, also met with Rodney Bailey about the environmental report and analysis. Mr. Bailey admitted there was a problem but told Mr. Seay that Texaco was not going to do anything about the problem. In fact, Mr. Bailey told Mr. Seay that if the Turners and Ms. Rodriguez wanted anything from Texaco, they had no choice but to get a lawyer.

In addition, Arco Pipeline Company has a pipeline that runs across the Turner property in the vicinity of the old pit. Arco recently had a substantial spill in this area. Arco began efforts to attempt to clean up its spill, but when it encountered the remnants of the old pit, refused to do any further remediation. As a result, Mr. and Mrs. Turner's property has also been significantly impacted by Arco's operations.

The purpose of this letter is to request that your department take whatever action is necessary to compel Texaco, Arco, and any and all other responsible parties to clean up the environmental damage that has taken place on Mr. Turner's property and which is impacting the health, safety, and welfare of the Turners and their neighbor, Ms. Rodriguez. We would certainly appreciate any cooperation that you could provide to us in this regard.

We look forward to working with you. If you have any questions, or need any additional information, please do not hesitate to contact me.

Very truly yours,

A.i M-m

Bill Robins III

BRR:vjw 126916/97-26444

cc: Mr. and Mrs. J.C. Turner 4601 East Seminole Highway Hobbs, New Mexico 88240

> Ms. Idolina Rodriguez c/o Mr. and Mrs. J.C. Turner 4601 East Seminole Highway Hobbs, New Mexico 88240



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GALLAGHER, LEWIS & DOWNEY JUL | 6 1998

ATTORNEYS AT LAW 40TH FLOOR NATIONSBANK CENTER 700 LOUISIANA HOUSTON, TEXAS 77002 Telephone: 713/222-8080 Telecopy: 713/222-0066

DIRECT LINE 713/238-7880

BILL ROBINS III Board Certified-Personal Injury Trial Law Texas Board of Legal Specialization

July 9, 1998

Mr. Roger Anderson Environmental Bureau Chief Oil Conservation Division State of New Mexico 2040 South Pacheco Santa Fe, New Mexico 87505

CERTIFIED MAIL:RRR #P 436 345 757

Re: Former Unlined Pit in Spill Area at Texaco Ferguson Battery/ARCO Pipeline Spill

Dear Mr. Anderson:

Thank you for your letter dated June 11, 1998 regarding the complaint made by my clients, J.C. Turner and Ms. Idolina Rodriguez. Pursuant to your request, enclosed please find copies of the analytical results for Ms. Rodriguez' water well, and for J.C. Turner's water wells. The samples for Mr. Turner's water wells were taken by Eddie Seay Consulting on January 5, 1997, and the sample for Ms. Rodriguez' water well was taken on June 11, 1997. We would anticipate that additional sampling will be necessary.

Thank you very much for your attention to this matter. If you need any additional information, or if I can be of any further assistance to you, please do not hesitate to contact me.

Very truly yours,

N.i. M-n

Bill Robins III

BRR:vjw Enclosure 134074/97-26444



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7324 25262) 20 7 9 7 2 7



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88240 FAX TO:

Receiving Date: 01/06/97 Reporting Date: 01/09/97 Project Number: NOT GIVEN Project Name: J.C. TURNER Project Location: EAST HOBBS Sampling Date: 01/05/97 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: GP/BC

LAB NUMBER SAMPLE ID		P-Alkalinity (mg/L)	T-Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)	Sulfates (mg/L)	рН (s u.)
ANALYSIS	DATE	1/7/97	1/7/97	1/7/97	1/7/97	1/7/97	1/7/97
H2751-2	DEEP WATER WELL	0	144	360	160	108	7,57
Quality Cont			ND	ND	496	00.5	7.00
True Value (NR	NR	NR	500	100	7.00
% Accuracy		NR	NR	NR	99.2	99.5	100
Relative Percent Difference		NR	NR	NR	0.0	0.5	0 1
METHODS:	EPA 600/4-79-020,	-	-	130.2	325.3	375.4	150.1
	Standard Method	2320 B	2320 B	-	-		-

LAB NUMBER SAMPLE ID		Hydroxides (mg/L)	Carbonates (mg/L)	Bicarbonates (mg/L)	Conductivity (umhos/cm)	TDS (mg/L)
ANALYSIS	DATE	1/7/97	1/7/97	1/7/97	1/7/97	1/8/97
H2751-2	DEEP WATER	0	0	176	875	640
	WELL					
Quality Control		NR	NR	NR	1413	NR
True Value	QC	NR	NR	NR	1413	NR
% Accuracy	/	NR	NR	NR	100	NR
Relative Percent Difference		NR	NR	NR	0.0	6.8

METHODS:	EPA 600/4-79-020,	-	-	-	120.1	160.1
	Standard Method	2320 B	2320 B	2320 B	-	-

Chemis

<u>01/09/</u> Date

PLEASE NOTE: Ltability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. Att claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service the ToEve2, XLIS ardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client to subsidiaries at linkates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated masons or informate



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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Sampling Date: 01/05/97 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: BC

> CI (mg/L)

LAB NUMBER	SAMPLE ID
------------	-----------

TPH (mg/L)

,	
/97	1/7/97
<1	160

ANALYSISI	JATE:	1/9/97	1///97
H2751-1	SHALLOW WATER	<1	160
	WELL		
			······································
Quality Cont	trol	214	496
True Value (20	200	500
% Accuracy		107	99.2
Relative Percent Difference		1.3	0
METHODS:	EPA 600/4-79-02	418.1	325.3

in eto/fa Code

9/4

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for unalyses PLEASE NOTE: Liability and Dankages. Carolina is adding and clients declared values (initial and and in writing and received by Carolinal writin him (30) days after completion of the applicable service P 2no writing and received by Carolinal writin him (30) days after completion of the applicable service P 2no writing and received by Carolinal writin him (30) days after completion of the applicable service P 2no writing and received by Carolinal writin him (30) days after completion of the applicable service P 2no writing and received by Carolinal writin him (30) days after completion of the applicable service P 2no writing and received by Carolinal writin him (30) days after completion of the applicable service P 2no writing and received by Carolina writin him (30) days after completion of the applicable service P 2no writing and received by Carolina writin him (30) days after completion of the applicable service P 2no writing and received by Carolina writin him (30) days after completion of the applicable service P 2no writing and received by Carolina writin him (30) days after completion of the applicable service P 2no writing and received by Carolina writin him (30) days after completion of the applicable service P 2no writing and received by Carolina writin him (30) days after completion of the applicable service P 2no writing and received by Carolina writing and the service P 2no writing athleates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88240 FAX TO:

Receiving Date: 06/11/97 Reporting Date: 06/12/97 Project Number: NOT GIVEN Project Name: RODRIQUEZ WATER WELL Project Location: 2012 WAYLON DR. Sampling Date: 06/11/97 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH/BC

		TPH (mg/L)	Cl (ma/L)
		((1119:0)
ANALYSIS [DATE:	6/11/97	6/11/97
H2987-1	#1 WATER WELL	<10	260)
Quality Cont	rol	204	500
True Value (20	200	500
% Recovery		102	100
Relative Per	Relative Percent Difference		0
METHODS:	EPA 600/4-79-02	418.1	325.3

ay h ARea Chemist

06/12/97

Price, Wa	yne	EER 7 1998
From: Sent: To: Cc: Subject:	Price, Wayne Wednesday, February 11, 1998 2:18 PM Roger Anderson; Carroll, Rand Chris Williams; Bill Olson Law firm inquiry concerning Groundwater contamination	OIL CONSERVATION DIVISION

Dear Roger,

Please note I am dropping in the US Mail today a copy of a letter and my response to a law firm making an inquiry concerning an old Texaco Pit and groundwater contamination out in the East Hobbs Pool Water Study Area.

This area is located just east of Hobbs, NM and adjacent to the NM-Texas State line.



NEW MEXICO ENERGY, MINERALS & NATURAL RESCURCES DEPARTMENT

OPFICE OF THE SECRETAR 2040 South Pachaco Street Santa Fe, Now Moxico 8750 (808) 827-8980

Jennifer A. Salisbury GABINET SECRETARY

February 11, 1998

Bill Robins III Gallagher, Lewis & Downey NationsBank Center 40th Floor 700 Louisiana Houston, Texas 77002

Re: D.F. Fergason Oil Battery located in Unit H, Sec 30-T18s-R39e

Dear Mr. Robins III:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your letter dated January 29, 1998 concerning groundwater and oilfield contamination at and/or near the above referenced site.

Please note groundwater contamination cases are normally handled by the NMOCD Environmental Bureau located at 2040 S. Pacheco, Santa Fe, NM 87505. The NMOCD District I office in Hobbs, NM is forwarding your letter to the NMOCD Environmental Bureau Chief, Mr. Roger Anderson. Mr. Anderson can be contacted by telephone at 505-827-7152.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Varrel in

Wayne Price-Environmental Engineer

cc: Chris Williams-NMOCD District I Supervisor Roger Anderson-Environmental Bureau Chief, Santa Fe, NM Rand Carroll-NMOCD Legal Counsel File- East Hobbs Pool Water Study

GALLAGHER, LEWIS & DOWNEY ATTORNEYS AT LAW

40th Floor NationsBank Center 700 Louisiana Houston, Texas 77002 Telephone 713/222-8080 Telecopy 713/222-0066

Bill Robins III Board Certified-Personal Injury Trial Law Texas Board of Legal Specialization

January 29, 1998



Direct Line 713/238-7880

Mr. Wayne Price Environmental State of New Mexico Oil Conservation Division P.O. Box 1980 Hobbs, New Mexico 88240

Re: D.F. Fergason Oil Battery located in Unit H, Sect. 30, T. 18, R. 39 E.

Dear Mr. Price:

Our law firm represents J.C. Turner and his wife, Donna Turner, as well as Idolina Rodriguez. Mr. and Mrs. Turner own a property located at 4601 East Seminole Highway, Hobbs, New Mexico 88240. Mr. and Mrs. Turner have been living at this address since 1987. During the last approximately ten years, Mr. Turner has been attempting to grow crops on his land. However, on an approximately five acre portion of his property, Mr. Turner was unable to successfully grow any crops or vegetation, despite extensive efforts at discing, tilling, plowing, and also, by adding many kinds of fertilizer. In fact, despite his efforts, the land appeared to be sterile.

This sterile area actually was a large pit associated with the D.F. Fergason Oil Battery located in Unit H, Section 30, T. 18, R. 39 E. This property was drilled and operated by Texaco for many years. It was subsequently operated by Martindale Petroleum Corporation, Hillin-Simon Oil Company, Marshall R. Young Oil Company, and Fredonia Resources, Inc., as well as possibly others.

Recently, Mr. Turner learned the old pit posed a serious health hazard to him and his family. In December, 1996, Mr. Turner filed a complaint about the pit area with the State of New Mexico -Oil Conservation Division. In addition, Mr. Turner also notified the above-listed operators by letter dated January 27, 1997. Water wells on Mr. and Mrs. Turner's property were sampled and have been impacted by contaminants. In addition, the water well of Ms. Rodriguez, who lives adjacent to the old pit area, has also been impacted. Mr. Wayne Price Environmental State of New Mexico OCD January 29, 1998 Page 2



In April, 1997, Texaco's environmental person, Rodney Bailey, came to the property with consultants from Highlander Environmental and did sampling of the soil. Eddie Seay, with Eddie Seay Consulting, also met with Rodney Bailey about the environmental report and analysis. Mr. Bailey admitted there was a problem but told Mr. Seay that Texaco was not going to do anything about the problem. In fact, Mr. Bailey told Mr. Seay that if the Turners and Ms. Rodriguez wanted anything from Texaco, they had no choice but to get a lawyer.

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The purpose of this letter is to request that your department take whatever action is necessary to compel Texaco, Arco, and any and all other responsible parties to clean up the environmental damage that has taken place on Mr. Turner's property and which is impacting the health, safety, and welfare of the Turners and their neighbor, Ms. Rodriguez. We would certainly appreciate any cooperation that you could provide to us in this regard.

We look forward to working with you. If you have any questions, or need any additional information, please do not hesitate to contact me.

Very truly yours,

A.i M-m

Bill Robins III

BRR:vjw 126916/97-26444

cc: Mr. and Mrs. J.C. Turner 4601 East Seminole Highway Hobbs, New Mexico 88240

> Ms. Idolina Rodriguez c/o Mr. and Mrs. J.C. Turner 4601 East Seminole Highway Hobbs, New Mexico 88240



Texaco North America Production Permian Business Unit 500 North Loraine Midland TX 79701 P O Box 3109 Midland TX 79702

Jun

July 16, 1998

Mr. Chris Williams, District I Supervisor NMOCD Post Office Box 1980 Hobbs, New Mexico 88241

RE: D. F. Fergason Lease NE/4 Sec. 30, T-18-S, R-39-E

Dear Mr. Williams:

In my letter to you dated July 7, 1998, I stated "that according to our information, we sold the lease in August, 1969, and Texaco did not close the pit(s). It is our understanding that it was closed by the current landowner."

Recently obtained aerial photographs (copies attached), show that there was evidence of a pit on Mr. Turner's property in the 1967 survey. In the 1971 survey, it appears that the pit(s) have been closed. This was before Mr. Turner acquired the property. We have not been able to locate any information regarding the closure of the pit(s), but we are continuing with our search.

Should you need additional information please advise.

Sincerely yours,

MA,U

L. R. Hall Operations Support Manager

LRH:cfb

Brian West - Houston Rodney Bailey - Hobbs





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Texaco North America Production Permian Business Unit 500 North Loraine Midland TX 79701 P O Box 3109 Midland TX 79702

July 7, 1998

Mr. Chris Williams, District I Supervisor New Mexico Oil Conservation Division P. O. Box 1980 Hobbs, New Mexico 88241

RE: D. F. Fergason Lease NE/4 Sec. 30, T-18-S, R-39-E



Dear Mr. Williams:

I am in receipt of your letter of June 12, 1998, addressed to Mr. Rodney Bailey, in which you requested Texaco to provide pit closure information on an "Old Pit" on property owned by Mr. J. C. Turner.

This is to advise that according to our information, we sold the lease in August, 1969, and Texaco did not close the pit(s). It is our understanding that it was closed by the current landowner.

Should you need additional information, please advise.

Sincerely yours,

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L. R. Hall Operations Support Manager

LRH:cfb

B. S. West – Legal - Houston R. G. Bailey - Hobbs





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ENERGY IN TRALS AND NATURAL RESOURCE DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

June 12, 1998

POST OFFICE BOX 1980 HOBBS. NEW MEXICO 88241-1980 2005 393-6161

Mr. Rodney Bailey Texaco E & P 205 E. Bender Blvd. Hobbs, NM 88240

Re: D.F. Fergason Lease NE/4 SE/4 Sec 30-Ts18s-R39e.

Dear Mr. Bailey:

New Mexico Oil Conservation Division (NMOCD) is making an inquiry into the "Old Pit" area located on the above referenced lease on property owned by Mr. J.C. Turner. Due to the presence of shallow groundwater in the area which is being used as a source of drinking water the NMOCD is requesting that Texaco provide pit closure information so as NMOCD can evaluate if this pit is a present or future threat to public health, groundwater, and/or the environment.

Please provide this information to the NMOCD District I office within 30 days of receipt of this letter.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Win Williams

Chris Williams-NMOCD District I Supervisor

CW/wp98:texferg

cc: Roger Anderson-Environmental Bureau Chief, Santa Fe, NM Mr. JC Turner-Property Owner

7/16/98 1:251M LAPPY HALL! TEXHCO (fetter of July 7) will amond font TO CN ' It reflect reg-Bate Aufr & air photo's & DATES!

Price, Wayne

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From:	Bill Olson
Sent:	Friday, June 12, 1998 12:13 PM
To:	Price, Wayne
Subject:	Read: DF Fergason Lease Old Texaco Pit

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Your message

To:	Roger Anderson
Cc:	Chris Williams; Bill Olson
Subject:	DF Fergason Lease Old Texaco Pit
Sent:	6/12/98 11:44:02 AM

was read on 6/12/98 12:13:58 PM

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Price, Wayne

From:	Roger Anderson
Sent:	Monday, June 15, 1998 4:20 PM
To:	Price, Wayne
Subject:	Read: DF Fergason Lease Old Texaco Pit

Your message

To:	Roger Anderson
Cc:	Chris Williams; Bill Olson
Subject:	DF Fergason Lease Old Texaco Pit
Sent:	6/12/98 11:44:02 AM

was read on 6/15/98 4:20:56 PM





STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

June 11, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-235-437-288

Mr. Bill Robins III Gallagher, Lewis & Downey 40th Floor, Nations Bank Center 700 Louisiana Houston, Texas 77002

RE: FORMER UNLINED PIT AND SPILL AREA TEXACO FERGASON TANK BATTERY/ARCO PIPELINE SPILL

Dear Mr. Robins:

The New Mexico Oil Conservation Division (OCD) has reviewed Gallagher, Lewis & Downey's January 29, 1998 correspondence which states that the water wells of Mr. J.C. Turner and Ms. Idolina Rodriguez have been sampled and found to be contaminated as a result of a former Texaco unlined pit at the D.F. Fergason Tank Battery and a former Arco Pipeline spill located in Unit H, Sec. 30, T18N, R39E, NMPM, Lea County, New Mexico.

In order to initiate a ground water assessment and to be able to assess potential health impacts from contaminants in these water wells, the OCD requests that you provide a copy of the laboratory analytical data sheets of all water quality samples taken from the Turner and Rodriguez water wells.

If you have any questions, please call me at (505) 827-7152 or Bill Olson of my staff at (505) 827-7154.

Sincerely,

Roger C. Anderson Environmental Bureau Chief

xc: Wayne Price, OCD Hobbs District Office

CC: CHEIS WILLIAMS



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NEW MEXICO ENERGY, MINERALS () & NATURAL RESOURCES DEPARTMENT

OFFICE OF THE SECRETARY 2040 South Pachaco Streat Santa Fe, New Mexico 87505 (805) 827-8980

Jennifer A. Salisbury CABINET BECRETARY

February 11, 1998

Bill Robins III Gallagher, Lewis & Downey NationsBank Center 40th Floor 700 Louisiana Houston, Texas 77002

Re: D.F. Fergason Oil Battery located in Unit H, Sec 30-T18s-R39e

Dear Mr. Robins III:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your letter dated January 29, 1998 concerning groundwater and oilfield contamination at and/or near the above referenced site.

Please note groundwater contamination cases are normally handled by the NMOCD Environmental Bureau located at 2040 S. Pacheco, Santa Fe, NM 87505. The NMOCD District I office in Hobbs, NM is forwarding your letter to the NMOCD Environmental Bureau Chief, Mr. Roger Anderson. Mr. Anderson can be contacted by telephone at 505-827-7152.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Varrel in

Wayne Price-Environmental Engineer

cc: Chris Williams-NMOCD District I Supervisor Roger Anderson-Environmental Bureau Chief, Santa Fe, NM Rand Carroll-NMOCD Legal Counsel File- East Hobbs Pool Water Study

GALLAGHER, LEWIS & DOWNEY ATTORNEYS AT LAW

40th Floor NationsBank Center 700 Louisian Houston, Texa 77002 Telephone 713/222-8080 Telecopy 713/222-0066

Bill Robins III Board Certified-Personal Injury Trial Law Texas Board of Legal Specialization

January 29, 1998



Re: D.F. Fergason Oil Battery located in Unit H, Sect. 30, T. 18, R. 39 E.

Dear Mr. Price:

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Direct Line 713/238-7880

Mr. Wayne Price Environmental State of New Mexico OCD January 29, 1998 Page 2



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We look forward to working with you. If you have any questions, or need any additional information, please do not hesitate to contact me.

Very truly yours,

A. M-m

Bill Robins III

BRR:vjw 126916/97-26444

cc: Mr. and Mrs. J.C. Turner 4601 East Seminole Highway Hobbs, New Mexico 88240

> Ms. Idolina Rodriguez c/o Mr. and Mrs. J.C. Turner 4601 East Seminole Highway Hobbs, New Mexico 88240

Price, Wayne

From:	Price, Wayne
Sent:	Wednesday, February 11, 1998 2:18 PM
To:	Roger Anderson; Carroll, Rand
Cc:	Chris Williams; Bill Olson
Subject:	Law firm inquiry concerning Groundwater contamination

Dear Roger,

Please note I am dropping in the US Mail today a copy of a letter and my response to a law firm making an inquiry concerning an old Texaco Pit and groundwater contamination out in the East Hobbs Pool Water Study Area.

This area is located just east of Hobbs, NM and adjacent to the NM-Texas State line.



NEW MEXICO MERGY, MINERALS & NATURAL RESCURCES DEPARTMENT

OFFICE OF THE SECRETARY 2040 South Pachaca Street Banta Fe, New Moxico 87505 (805) 827-8980

Jennifer A. Salisbury CABINET BECRETARY

February 11, 1998

Bill Robins III Gallagher, Lewis & Downey NationsBank Center 40th Floor 700 Louisiana Houston, Texas 77002

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If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Varrel in

Wayne Price-Environmental Engineer

cc: Chris Williams-NMOCD District I Supervisor Roger Anderson-Environmental Bureau Chief, Santa Fe, NM Rand Carroll-NMOCD Legal Counsel File- East Hobbs Pool Water Study

GALLAGHER, LEWIS & DOWNEY

ATTORNEYS AT LAW

40th Floor NationsBank Center 700 Louisian Houston, Texas 77002 Telephone 713/222-8080 Telecopy 713/222-0066

Bill Robins III Board Certified-Personal Injury Trial Law Texas Board of Legal Specialization

January 29, 1998



Direct Line 713/238-7880

Mr. Wayne Price Environmental State of New Mexico Oil Conservation Division P.O. Box 1980 Hobbs, New Mexico 88240

Re: D.F. Fergason Oil Battery located in Unit H, Sect. 30, T. 18, R. 39 E.

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Our law firm represents J.C. Turner and his wife, Donna Turner, as well as Idolina Rodriguez. Mr. and Mrs. Turner own a property located at 4601 East Seminole Highway, Hobbs, New Mexico 88240. Mr. and Mrs. Turner have been living at this address since 1987. During the last approximately ten years, Mr. Turner has been attempting to grow crops on his land. However, on an approximately five acre portion of his property, Mr. Turner was unable to successfully grow any crops or vegetation, despite extensive efforts at discing, tilling, plowing, and also, by adding many kinds of fertilizer. In fact, despite his efforts, the land appeared to be sterile.

This sterile area actually was a large pit associated with the D.F. Fergason Oil Battery located in Unit H, Section 30, T. 18, R. 39 E. This property was drilled and operated by Texaco for many years. It was subsequently operated by Martindale Petroleum Corporation, Hillin-Simon Oil Company, Marshall R. Young Oil Company, and Fredonia Resources, Inc., as well as possibly others.

Recently, Mr. Turner learned the old pit posed a serious health hazard to him and his family. In December, 1996, Mr. Turner filed a complaint about the pit area with the State of New Mexico -Oil Conservation Division. In addition, Mr. Turner also notified the above-listed operators by letter dated January 27, 1997. Water wells on Mr. and Mrs. Turner's property were sampled and have been impacted by contaminants. In addition, the water well of Ms. Rodriguez, who lives adjacent to the old pit area, has also been impacted. Mr. Wayne Price Environmental State of New Mexico OCD January 29, 1998 Page 2



In April, 1997, Texaco's environmental person, Rodney Bailey, came to the property with consultants from Highlander Environmental and did sampling of the soil. Eddie Seay, with Eddie Seay Consulting, also met with Rodney Bailey about the environmental report and analysis. Mr. Bailey admitted there was a problem but told Mr. Seay that Texaco was not going to do anything about the problem. In fact, Mr. Bailey told Mr. Seay that if the Turners and Ms. Rodriguez wanted anything from Texaco, they had no choice but to get a lawyer.

In addition, Arco Pipeline Company has a pipeline that runs across the Turner property in the vicinity of the old pit. Arco recently had a substantial spill in this area. Arco began efforts to attempt to clean up its spill, but when it encountered the remnants of the old pit, refused to do any further remediation. As a result, Mr. and Mrs. Turner's property has also been significantly impacted by Arco's operations.

The purpose of this letter is to request that your department take whatever action is necessary to compel Texaco, Arco, and any and all other responsible parties to clean up the environmental damage that has taken place on Mr. Turner's property and which is impacting the health, safety, and welfare of the Turners and their neighbor, Ms. Rodriguez. We would certainly appreciate any cooperation that you could provide to us in this regard.

We look forward to working with you. If you have any questions, or need any additional information, please do not hesitate to contact me.

Very truly yours,

A.i M-m

Bill Robins III

BRR:vjw 126916/97-26444

cc: Mr. and Mrs. J.C. Turner 4601 East Seminole Highway Hobbs, New Mexico 88240

> Ms. Idolina Rodriguez c/o Mr. and Mrs. J.C. Turner 4601 East Seminole Highway Hobbs, New Mexico 88240

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