



Environmental Protection Agency  
and Marketing Inc.

10 Universal City Place  
Oakland, CA 94612

April 15, 1993

Ms. Susan Hugo  
Alameda County Environmental  
Health Department  
80 Swan Way, Room 200  
Oakland, CA 94621

SUBJECT: **500 GRAND AVENUE**  
Oakland, CA

Dear Ms. Hugo:

Thank you for returning my call. As I stated in our telephone conversation, this letter is a partial response to your letter of April 1, 1993, on the status of groundwater/soil remediation at the above former service station facility. Any questions not addressed in this letter will be discussed at our 8:30 AM meeting on April 30, 1993.

Texaco's lease on the property will expire on May 31, 1993. For this reason, I feel it is extremely important that we establish future monitoring requirements for this site. The property owner has plans for major improvements on his property, and Texaco would like to return the property to him with a clear understanding as to what environmental conditions must be met.

A review of reports listed in your letter, indicates the Underground Tank Removal Report dated June 8, 1992, copy attached, was not included. The report answers some of the questions raised in your letter.

Listed below are answers to some of the questions raised, numbers noted refer to those numbers listed in your letter:

- 1) **Status of the proposed groundwater interceptor trench -**  
Because of the uncertainty of the retailer's length-of-stay on the property, the trench was never installed. With the anticipation of the retailer's departure, Texaco felt that excavation and removal of the heavy soils would be a much more affective and practical control of offsite migration. Although the retailer did leave before his lease expired, he did not leave as early as anticipated.
- 2) **Two monitoring wells were abandoned (MW-8A & MW-8E); Submit workplan for installation of replacement wells -**  
In addition to removing these wells, Texaco obtained the required permits to remove the two remaining on-site wells (MW-8B & MW-8C) noted in your letter. The reasons the wells were removed were:

Ms. Susan L. Hugo  
500 Grand Avenue, Oakland, CA  
April 15, 1993

- A. Monitoring wells 8A and 8E were located along the southwest portion of the property. All contaminated soils in this area were removed and the work documented in the 1992 second quarter report. The report also clearly indicates that all soil samples taken from the remaining underlying soils in this area were ND. The only remaining contaminated samples were taken from the vertical edge of the excavation which also happens to be the south property line. For this reason it is felt that existing offsite wells are in the proper position to monitor this area.
- B. Monitoring wells 8B and 8C were also located in areas where all contaminated soil was removed. Except for some residual soil contamination noted on soil samples SS1, 2, 4, 5, and 6, which were taken from the bottom of the tank hole, all onsite soil samples were <1.0 ppm tph. Because there are currently two offsite and down gradient wells (MW 8J & MW 8G) now being used to monitor water migration from this portion of the property, Texaco feels that no additional onsite well in this area is necessary.
- 3) **Disposal records** - See Tank Report dated 6/8/92 and tank manifests attached.
- 4) **Clarify if sump and hoists removed** - All property improvements were removed including these items. The semi hydraulic hoists were to remain as contractor's salvage. Two soil samples were taken and documented in the second quarter, 1992, report.
- 5) **Residual soil contamination** - Soils referred to are on the most southerly portion of the property, at the property line. Any further removal of soils will have to be done in the street right-of-way and at great expense.
- 6) **Incorrect north arrow** - This will be corrected in future reports.
- 7) **Chain-of-custody** - Copy enclosed.
- 8) To be answered.

Report Prepared for

Texaco Refining and Marketing Inc.  
10 Universal City Plaza  
Universal City, California 91608

*I*

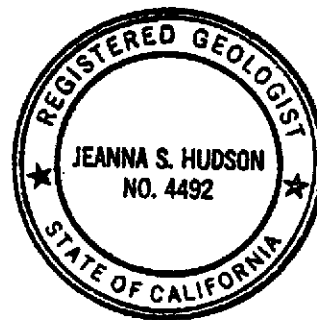
**UNDERGROUND STORAGE TANK REMOVAL  
500 GRAND AVENUE  
OAKLAND, CALIFORNIA**

HLA Job No. 10281-223

by

*Marlene K. Watson*  
Marlene K. Watson  
Project Engineer

*Jeanna S. Hudson*  
Jeanna S. Hudson  
Registered Geologist



Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, California 94520  
510/687-9660

June 8, 1992

INTRODUCTION

This report presents the results of soil sampling and analysis conducted by Harding Lawson Associates (HLA) during operations to remove three underground storage tanks (USTs) at the former service station site at 500 Grand Avenue in Oakland, California (Plate 1). The station was operated by Exxon Company, U.S.A. (Exxon) from 1988 until 1991. Prior to 1988, the station was operated by Texaco Refining and Marketing Inc. (Texaco). Since December 1991, the station has been nonoperational.

In April 1992, Texaco Marketing Division contracted Zaccor, Inc. (Zaccor) to demolish structures at the site and to remove three underground storage tanks (USTs), dispenser islands, and associated piping. HLA was retained by Texaco Environmental Services (TES) to observe demolition of on site structures, observe tank removal operations, document the soil conditions encountered, collect confirmation samples, and arrange disposal of tank backfill material. Our services were provided on a time and materials basis in accordance with the Master Service Agreement signed in May 1992, under Texaco Authorization Number 103RR. At the request of TES, HLA will submit a separate report documenting excavation of additional contaminated soil at the site, when that phase of work has been completed.

## BACKGROUND

Texaco retained HLA to conduct a sensitive receptor survey at the service station in May 1988. In June 1988, Texaco requested that HLA proceed with a subsurface investigation to evaluate whether hydrocarbons had affected shallow soil or groundwater. During the site investigation, HLA conducted a soil-gas survey, installed 10 groundwater monitoring wells, drilled 15 soil borings, performed slug tests, and analyzed soil and groundwater samples for benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total petroleum hydrocarbons (TPH) as gasoline and as diesel fuel. Soil boring and monitoring well locations are shown on Plate 2. HLA submitted an Environmental Assessment Report, dated September 22, 1989, to Texaco; issued an Interim Remedial Plan, dated December 7, 1990; and submitted Quarterly Technical Reports summarizing work performed at the site.

Exxon removed the waste oil tank in September 1990. Waste oil and water were pumped from the tank backfill and disposed of by Exxon. Tank backfill material and affected soil were also excavated and disposed of by Exxon. On behalf of TES, during the first quarter of 1991 HLA supervised the excavation of clay sewer pipes and contaminated soil from an abandoned utility trench near the former waste oil tank location (Plate 3).

## UST REMOVAL

Texaco Marketing Division obtained a contract with Zaccor for demolition of on-site structures and tank removal. On April 13 through 15, 1992, Zaccor demolished structures, removed three USTs, stockpiled pea gravel used as backfill around the tanks, and removed the dispenser islands and associated piping. Mr. Fred Long of Texaco and a representative from HLA were on site to observe the activities. Photographs of the operations are in Appendix A.

During UST removal operations, an HLA field geologist screened excavated soils with a photoionization detector (PID) and an organic vapor analyzer (OVA). The PID and OVA measure relative air-borne concentrations of volatile organic compounds (VOCs) found in gasoline. Air in the breathing zone around the site was also monitored by HLA personnel during excavation operations.

Prior to removal, the product lines were flushed with water which was contained in the turbine catch basin. The USTs were 10,000-gallon capacity fiberglass tanks which previously held unleaded gasoline and leaded gasoline. The tanks and tank backfill were covered by a concrete slab. The tanks were strapped to a concrete anchor to counteract buoyancy due to groundwater in the tank backfill material.

Tank removal was conducted on April 14, 1992. A trench was excavated around Tank #3 in an effort to expose the tank. The strap connecting the tank to the concrete anchor apparently

failed, allowing the tank to "float" to the top of the excavation and list to one side (photos in Appendix A). The tie-down straps and anchor were disconnected from the tank. A representative from the Oakland Fire Department (OFD) was not on site, but Zaccor personnel obtained verbal permission from the OFD to remove the tank from the excavation. After the tank was out of the excavation, Zaccor removed the vents and placed dry ice inside the tank.

After removal of Tank #3, the straps securing Tank #2 broke and the tank began floating towards Tank #1. Zaccor removed Tank #2 from the excavation to avoid damage to either tank. Pea gravel was removed from around Tank #1 and the tie-down straps were cut. Dry ice was placed in Tank #1 through holes created when the vents were removed, and the tank was pulled from the excavation (photos in Appendix A). No pre-existing cracks or holes were observed in any of the tanks.

Christine Meyers of the OFD arrived on site April 14, to observe the removal of the tanks from the site. Ms. Susan Hugo, Senior Hazardous Materials Specialist for the Alameda County Health Agency (ACHA), arrived on site as the third tank was being hauled away. Ms. Hugo directed sampling of soil in the bottom and along the sidewalls of the tank excavation on April 14. The following day, she returned to direct sampling around the pump islands and product lines. Sample locations and collection procedures are described in the following section of this report.

Groundwater at the site is semi-confined with a relatively steep gradient towards Lake Merritt. The bottom of the tank excavation intercepted the water-bearing zone, resulting in the presence of groundwater within the tank backfill material. During tank removal operations, Zaccor arranged pumping of approximately 25,000 gallons of hydrocarbon-bearing water from the excavation in an attempt to minimize tank buoyancy and to rid the backfill material of water. Zaccor subcontracted for Allied Oil and Pumping and Oscar E. Erickson, Inc. to pump the water from the tank backfill and remove it from the site. The water, which was treated as hazardous material, was taken to Gibson Oil and Refining Co. Inc., in Redwood City, California.

The final excavation was approximately 10 feet deep and approximately 1800 square feet in plan area (Plate 3). The pea gravel removed from the UST excavation was stockpiled and sampled for subsequent removal from the site. The stockpile was covered with Visqueen. On April 15, 1992, Zaccor returned the previously excavated pea gravel to the UST excavation to help stabilize the excavation walls. The pea gravel was subsequently removed from the excavation and disposed of, as discussed in a subsequent section of this report entitled: "Disposal of Pea Gravel".



## SOIL SAMPLING

Excavation Soil Samples

On April 14, HLA collected nine soil samples from the bottom and sidewalls of the excavation, as directed by Ms. Susan Hugo of ACHA. Sample depths varied from approximately 5 to 10 feet below the ground surface. Sampling locations are shown on Plate 3.

Samples were collected by driving 2-1/2 inch-diameter stainless steel tubes into the excavation walls and bottom. Soil samples were sealed in the stainless steel tubes by covering the ends with aluminum foil, plastic end caps, and Teflon tape. The samples were stored in a cooled ice chest and delivered under chain-of-custody procedures to Sequoia Analytical, a state-certified laboratory in Concord, California.

All soil samples were analyzed for TPH as gasoline, and for BTEX, in accordance with EPA Test Methods 8015-modified and 8020, respectively. Results of chemical analyses are presented in Table 1. Copies of laboratory reports and chain-of-custody documents are presented in Appendix B.

Soil Samples from Pump Islands and Fuel Line

On April 15, HLA collected three soil samples from below dispenser islands and one from the piping trench, as directed by Ms. Susan Hugo of ACHA. The samples were taken at depths of five to six feet (locations are shown on Plate 3). Samples were collected by either driving sample tubes into soil contained in the backhoe bucket, or by recovering soil collected in a hollow-

stem hand auger. Samples were analyzed for BTEX, TPH as gasoline (EPA Test Method 5030/8015/8020), and total oil and grease (Test Method SM 5520 E & F gravimetric). Sample PI-2A was requested by Ms. Susan Hugo because she noticed evidence of free product seepage in the area of the former dispensers. She requested that Texaco file an unauthorized leak report because of the free product observed at that location.

#### Stockpiled Soil

On April 15, HLA collected 10 samples of pea gravel, approximately one sample for each 50 cubic yards (cy) of stockpiled tank backfill material. Samples were analyzed for BTEX and TPH as gasoline (EPA Test Methods 5030/8015/8020). In order to classify the soil for disposal, the sample with the highest TPH as gasoline concentration was also analyzed for the following:

- Soluble BTEX by the Toxicity Characteristics Leaching Procedure (TCLP);
- Soluble Threshold Limit Concentration (STLC) of lead; and
- Reactivity, Corrosivity, and Ignitability (RCI).

Laboratory analytical results are presented in Appendix B and are summarized in Table 1.

## RESULTS OF CHEMICAL ANALYSES

Excavation Soil Samples

Soil samples from the UST excavation contained less than 100 ppm of TPH as gasoline in all but one sample, which contained 130 ppm TPH (Table 1). That sample, SS4, was collected at approximately 10 feet below grade in the bottom of the excavation (Plate 3). Benzene was detected in five of the samples in concentrations up to 0.20 ppm. Concentrations of individual BTEX components were generally less than 1.4 ppm.

Pump Island and Fuel Line Soil Samples

Soil samples obtained from excavations around the pump islands and fuel lines indicated high concentrations of TPH as gasoline and total oil and grease, up to 2100 ppm and 6900 ppm, respectively (Table 1). Benzene concentrations were as high as 11 ppm and concentrations of individual BTEX components were up to 180 ppm.

Stockpiled Pea Gravel

Relatively low levels of petroleum products were detected in the samples obtained from the stockpiled pea gravel (Table 1). Maximum concentration of TPH as gasoline in one sample was 160 parts per million (ppm) with TPH as gasoline generally less than 7 ppm. Benzene was detected in three of the samples in concentrations up to 0.83 ppm; however, individual BTEX components were approximately 1 ppm or less. Additional analyses

were conducted on pea gravel sample #3, which contained the highest concentration of TPH as gasoline. Leachable concentrations were 710 parts per billion (ppb) of TPH as gasoline, 8.3 ppb benzene, and 11 ppb xylenes. Toluene and ethylbenzene concentrations were below analytical detection limits. The result of the STLC analysis for lead was 0.18 ppm. Results are summarized in Table 1 and laboratory reports are presented in Appendix B.

#### DISPOSAL OF PEA GRAVEL

On behalf of Texaco, HLA arranged for disposal of hydrocarbon-bearing pea gravel removed from the tank backfill. On May 4, 1992, approximately 540 cy\*\* of pea gravel was taken by Dillard Trucking of Byron, California, to Browning Ferris Industries (BFI) Waste Systems, a Class III landfill in Livermore, California. Transport manifests are presented in Appendix C. Following removal of the pea gravel from the site, Zaccor arranged for the excavation to be backfilled and compacted using clean, imported fill.

#### CONCLUSIONS

Plate 3 shows the locations of samples obtained from the limits of the UST excavation, and the TPH concentrations detected

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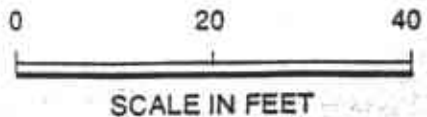
\*\* Based on transport manifest count for trucks with 18-cy capacity.

in those samples. Samples obtained from the walls of the excavation (SS3, SS7, SS8, and SS9) all contained less than 1.0 ppm TPH as gasoline. Samples collected in the bottom of the excavation contained from 2.3 to 130 ppm TPH as gasoline. Only one sample, SS4, contained TPH concentrations in excess of 100 ppm. In general, the samples collected at the northern end of the excavation, closest to the former building site, contained higher concentrations of TPH.

Samples collected from the areas of the former dispenser islands and fuel lines contained from 7.8 to 2100 ppm TPH as gasoline (Plate 3). In three of the four samples, TPH concentrations were in excess of 100 ppm. Concentrations of oil and grease, ranging from 30 to 6900 ppm, were also detected in these samples. The highest concentration of total oil and grease was detected in the sample collected at a depth of 6 feet, in the location of a former dispenser island.



REFERENCE: U.S.G.S. 7.5 minute  
 Topographic Map, Oakland West,  
 California, photo revised, 1980.



**Harding Lawson Associates**  
 Engineering and  
 Environmental Services

**Regional Map**  
 Former Service Station  
 500 Grand Avenue  
 Oakland, California

PLATE







**1**

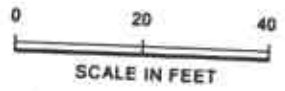
DRAWN PROJECT NUMBER  
 RHC 10281.223

APPROVED  
 JSF

DATE  
 06/09/92

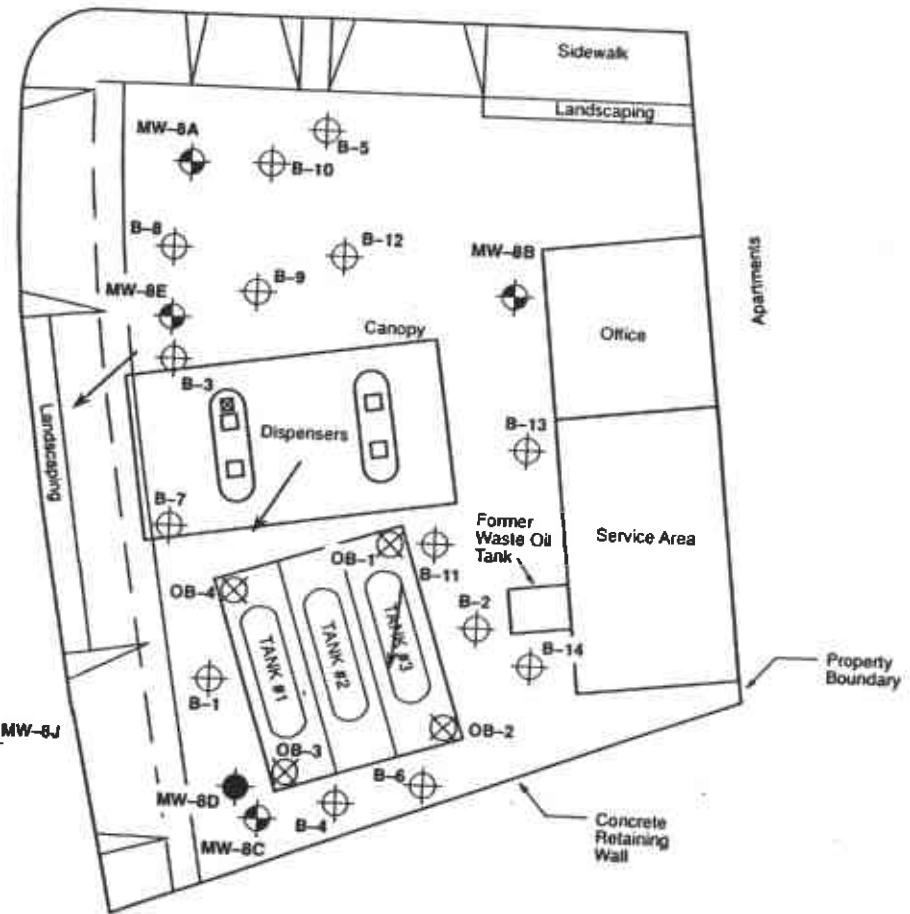
REVISED DATE


- EXPLANATION**
-  Monitoring well
  -  Observation well
  -  Soil boring
  -  Decommissioned monitoring well
  -  Groundwater flow direction
  -  Bench mark  
(HLA arbitrary datum  $e.l. = 100$  feet)



GRAND AVENUE

EUCLID AVENUE

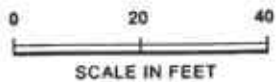


	<b>Harding Lawson Associates</b> Engineering and Environmental Services		<b>Site Plan</b> Former Service Station 500 Grand Avenue Oakland, California		PLATE <b>2</b>
	DRAWN RHC	PROJECT NUMBER 10281 223	APPROVED JSH	DATE 06/09/92	REVISED DATE

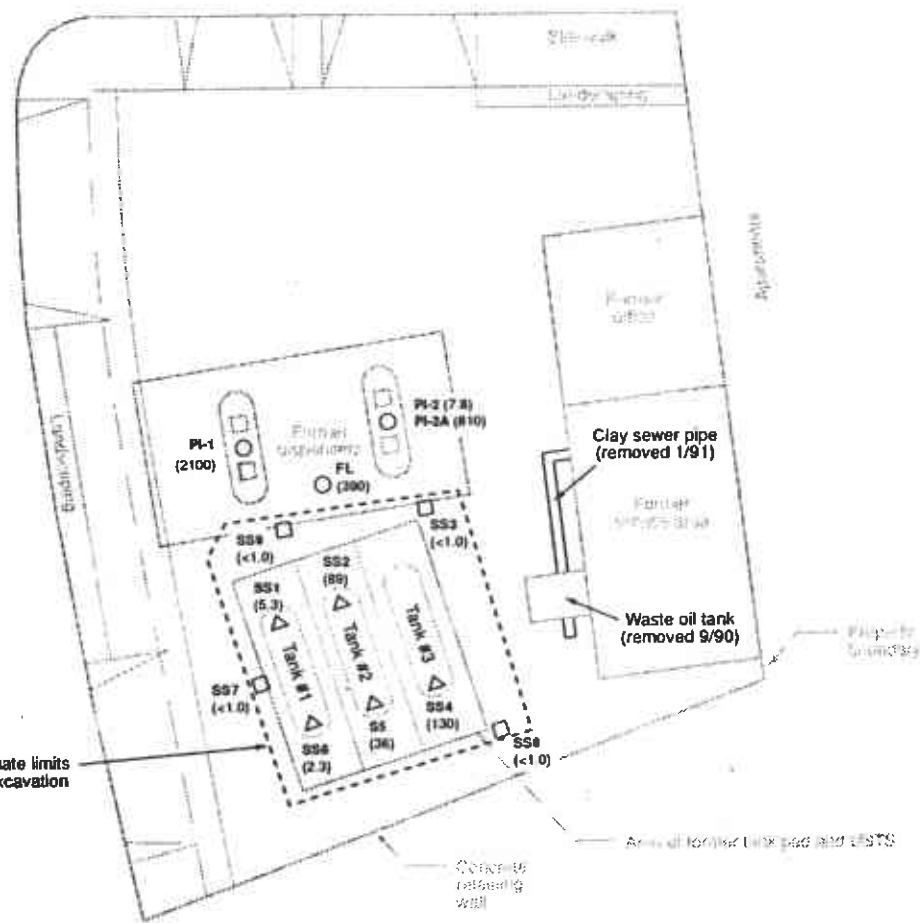
GRAND AVENUE

**EXPLANATION**

- △ Soil sample from bottom of tank excavation (approximately 10 feet below grade)
- Soil sample from wall of tank excavation (5 to 10 feet below grade)
- Soil sample from pump island (PI) or fuel line (FL); sample depths 5-6 feet below grade
- (2.3) Total petroleum hydrocarbons as gasoline, in mg/kg (ppm)



Approximate limits of tank excavation



	Harding Lawson Associates Engineering and Environmental Services	Locations Sampled During UST Removal Operations Former Service Station 500 Grand Avenue Oakland, California	PLATE <b>3</b>
	DRAWN RHC	PROJECT NUMBER 10281.223	APPROVED JSH
		DATE 06/09/92	REVISED DATE



LIST OF ILLUSTRATIONS

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Plate	3	Locations Sampled During UST Removal Operations

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Table	1	Results of Chemical Analyses on Soil Samples
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Appendix A	Photographs of Site Demolition and Tank Removal Operations
Appendix B	Laboratory Reports
Appendix C	Soil Disposal Transport Manifests

TABLES

Table 1. Results of Chemical Analyses on Soil Samples  
Former Service Station  
500 Grand Avenue  
Oakland, California

Sample I.D. <sup>1</sup>	Date	Benzene	Toluene	Ethyl benzene	Xylenes	TPH as gasoline	Other	
Results Presented in mg/kg (ppm)								
Excavation	SS1/10-B	04/14/92	<0.005	0.038	0.016	0.12	5.3	--
	SS2/10-B	04/14/92	0.049	0.38	0.15	1.4	89	--
	SS3/ 5-W	04/14/92	<0.005	<0.005	<0.005	0.011	<1.0	--
	SS4/10-B	04/14/92	0.14	0.21	0.17	1.1	130	--
	SS5/10-B	04/14/92	0.20	0.028	0.040	0.15	36	--
	SS6/10-B	04/14/92	0.0057	<0.005	<0.005	0.017	2.3	--
	SS7/ 5-W	04/14/92	<0.005	<0.005	<0.005	<0.005	<1.0	--
	SS8/ 5-W	04/14/92	<0.005	<0.005	<0.005	<0.005	<1.0	--
	SS9/ 5-W	04/14/92	0.0069	<0.005	<0.005	<0.005	<1.0	--
Pump Islands and Fuel Line	PI-1/5	04/15/92	11	60	32	180	2,100	190*
	PI-2/5	04/15/92	0.019	0.013	0.035	0.077	7.8	30*
	PI-2A/6	04/15/92	1.3	1.1	2.0	11	810	6,900*
	Fuel Line/5	04/15/92	0.92	2.9	3.6	21	390	36*
Stockpile	Pea gravel-1A	04/14/92	0.031	0.054	0.023	0.12	5.4	--
	Pea gravel-1	04/14/92	0.012	0.018	<0.005	0.041	6.8	--
	Pea gravel-2	04/14/92	<0.005	<0.005	<0.005	<0.005	1.2	--
	Pea gravel-3	04/14/92	0.83	0.56	1.1	0.78	160	--
	Pea gravel-4	04/14/92	<0.005	<0.005	<0.005	0.010	<1.0	--
	Pea gravel-5	04/14/92	<0.005	<0.005	<0.005	<0.005	2.9	--
	Pea gravel-6	04/14/92	<0.005	<0.005	<0.005	0.0054	2.0	--
	Pea gravel-7	04/14/92	<0.005	0.011	<0.005	0.024	6.2	--
	Pea gravel-8	04/14/92	<0.005	<0.005	<0.005	<0.005	<1.0	--
	Pea gravel-9	04/14/92	<0.005	<0.005	<0.005	<0.005	2.4	--
TCLP Soil Extract, Results Presented in µg/l (ppb)								
Pea gravel-3	04/14/92	8.3	<6.0	<6.0	11	710	0.18**	

<sup>1</sup> Sample I.D. contains the following components: SS1 = sample name  
10 = depth of sample in feet  
B = bottom of excavation  
W = sidewall of excavation

\* Total oil and grease  
\*\* SILC lead

ILLUSTRATIONS

APPENDIX A  
PHOTOGRAPHS OF SITE DEMOLITION  
AND TANK REMOVAL OPERATIONS

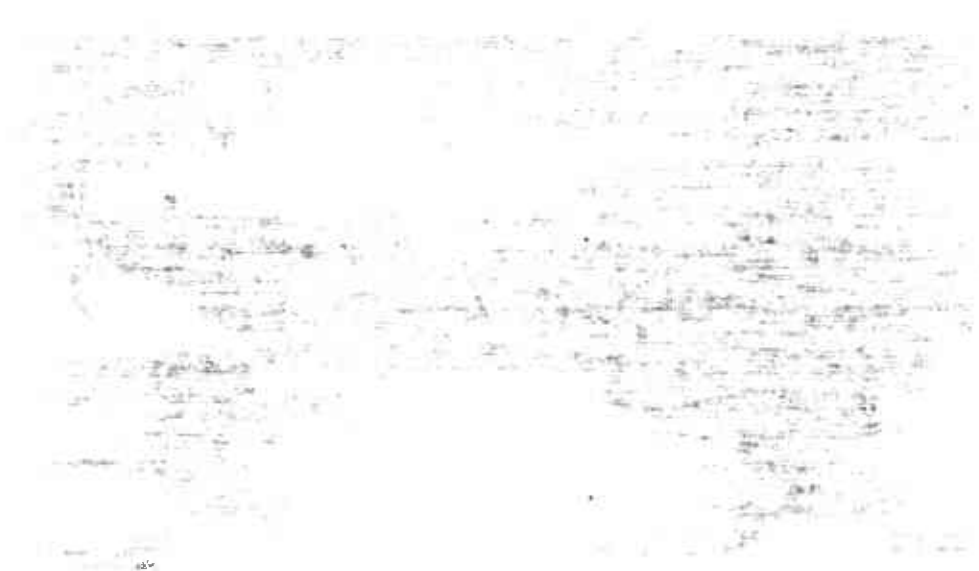




Photo 1: Debris resulting from demolition of building.



Photo 2: UST backfill material after removal of concrete slab.  
Pumping water from observation well in tank backfill.



Photo 3: Removal of backfill material from tank excavation.



Photo 4: Trench adjacent to Tank #3.



Photo 5: Tank #3 rising to surface because of buoyancy.



Photo 6: Tank #3 after floating to surface and dislodging concrete anchor.





Photo 7: Tank #2 floating in excavation.



Photo 8: Tanks #2 and #3 after removal from excavation.



Photo 9: Adding dry ice to Tank #1.



Photo 10: Excavating Tank #1.



Photo 11: Removing Tank #1 from excavation.



Photo 12: Loading UST onto flatbed truck for removal from site.



Photo 13: Excavating concrete at dispenser island.

APPENDIX B  
LABORATORY REPORTS



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

JSH  
APR 30 1992

Harding Lawson Associates	Client Project ID: 2251, 223. 03	Sampled: Apr 14, 1992
1355 Willow Way, Suite 109	Matrix Descript: Soil	Received: Apr 14, 1992
Concord, CA 94520	Analysis Method: EPA 5030/8015/8020	Analyzed: Apr 20, 1992
Attention: Jeanna S. Hudson	First Sample #: 204-0538	Reported: Apr 27, 1992

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons			Ethyl	
		mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
204-0538	SS 1	5.3	N.D.	0.038	0.016	0.12
204-0540	SS3	N.D.	N.D.	N.D.	N.D.	0.011
204-0543	SS 6	2.3	0.0057	N.D.	N.D.	0.017
204-0544	SS 7	N.D.	N.D.	N.D.	N.D.	N.D.
204-0545	SS 8	N.D.	N.D.	N.D.	N.D.	N.D.
204-0546	SS 9	N.D.	0.0069	N.D.	N.D.	N.D.

<b>Detection Limits:</b>	<b>1.0</b>	<b>0.0050</b>	<b>0.0050</b>	<b>0.0050</b>	<b>0.0050</b>
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

  
Scott A. Chieffo  
Project Manager



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

Harding Lawson Associates	Client Project ID: 2251, 223. 03	Sampled: Apr 14, 1992
1355 Willow Way, Suite 109	Matrix Descript: Soil	Received: Apr 14, 1992
Concord, CA 94520	Analysis Method: EPA 5030/8015/8020	Analyzed: Apr 20, 1992
Attention: Jeanna S. Hudson	First Sample #: 204-0539	Reported: Apr 27, 1992

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Ethyl			
		Hydrocarbons	Benzene	Toluene	Benzene	Xylenes
		mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)
204-0539	SS 2	89	0.049	0.38	0.15	1.4

Detection Limits:

2.0

0.010

0.010

0.010

0.010

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Scott A. Chieffo  
Project Manager

2040538.HLA <2>



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

Harding Lawson Associates 1355 Willow Way, Suite 109 Concord, CA 94520 Attention: Jeanna S. Hudson	Client Project ID: 2251, 223. 03 Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 204-0541	Sampled: Apr 14, 1992 Received: Apr 14, 1992 Analyzed: Apr 20, 1992 Reported: Apr 27, 1992
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## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Ethyl			
		Hydrocarbons	Benzene	Toluene	Benzene	Xylenes
		mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)
204-0541	SS 4	130	0.14	0.21	0.17	1.1

<b>Detection Limits:</b>	20	0.10	0.10	0.10	0.10
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Scott A. Chieffo  
Project Manager

2040538.HLA <3>





# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
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Harding Lawson Associates	Client Project ID: 2251, 223. 03	Sampled: Apr 14, 1992
1355 Willow Way, Suite 109	Matrix Descript: Soil	Received: Apr 14, 1992
Concord, CA 94520	Analysis Method: EPA 5030/8015/8020	Analyzed: Apr 20, 1992
Attention: Jeanna S. Hudson	First Sample #: 204-0542	Reported: Apr 27, 1992

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Ethyl			
		Hydrocarbons	Benzene	Toluene	Benzene	Xylenes
		mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)
204-0542	SS 5	36	0.20	0.028	0.040	0.15

Detection Limits:	5.0	0.025	0.025	0.025	0.025
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Scott A. Chieffo  
Project Manager



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, CA 94520

Client Project ID: 2251, 223. 03

Attention: Jeanna S. Hudson

QC Sample Group: 2040538-0546

Reported: Apr 27, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
	Method:	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020
Analyst:	K.E.	K.E.	K.E.	K.E.
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Apr 20, 1992	Apr 20, 1992	Apr 20, 1992	Apr 20, 1992
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.40	0.40	0.40	1.2
Conc. Matrix Spike:	0.33	0.38	0.42	1.3
Matrix Spike % Recovery:	83	95	105	108
Conc. Matrix Spike Dup.:	0.33	0.39	0.42	1.3
Matrix Spike Duplicate % Recovery:	83	98	105	108
Relative % Difference:	0.0	2.6	0.0	0.0

SEQUOIA ANALYTICAL

*Scott A. Chieffo*  
Scott A. Chieffo  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$





# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

Harding Lawson Associates (Concord) 1355 Willow Way, Suite 109 Concord, CA 94520 Attention: Jeanna Hudson	Client Project ID: #2251,223.03, Texaco, 500 Grand Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 204-0605	Sampled: Apr 15, 1992 Received: Apr 15, 1992 Analyzed: 4/15-16/92 Reported: Apr 17, 1992
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## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
204-0605	PI-1	2,100	1.1	60	32	180
204-0606	PI-2A	810	1.3	1.1	2.0	11

Detection Limits:

100

0.50

0.50

0.50

0.50

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

*B. Vega*  
Belinda C. Vega  
Laboratory Director

2040605.HLA <1>



# SEQUOIA ANALYTICAL

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Harding Lawson Associates (Concord) 1355 Willow Way, Suite 109 Concord, CA 94520 Attention: Jeanna Hudson	Client Project ID: #2251,223.03, Texaco, 500 Grand Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 204-0606	Sampled: Apr 15, 1992 Received: Apr 15, 1992 Analyzed: 4/15-16/92 Reported: Apr 17, 1992
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## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene		Ethyl	Xylenes
		Hydrocarbons mg/kg (ppm)	mg/kg (ppm)	Toluene mg/kg (ppm)	Benzene mg/kg (ppm)	mg/kg (ppm)
204-0606	Pl-2	7.8	0.019	0.013	0.035	0.077

<b>Detection Limits:</b>	1.0	0.0050	0.0050	0.0050	0.0050
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

  
Belinda C. Vega  
Laboratory Director

2040605.HLA <2>



# SEQUOIA ANALYTICAL

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Harding Lawson Associates (Conc	Client Project ID: #2251,223.03, Texaco, 500 Grand	Sampled: Apr 15, 1992
1355 Willow Way, Suite 109	Matrix Descript: Soil	Received: Apr 15, 1992
Concord, CA 94520	Analysis Method: EPA 5030/8015/8020	Analyzed: 4/15-16/92
Attention: Jeanna Hudson	First Sample #: 204-0608	Reported: Apr 17, 1992

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Ethyl			
		Hydrocarbons	Benzene	Toluene	Benzene	Xylenes
		mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)
204-0608	Fuel Line	390	0.92	2.9	3.6	21

<b>Detection Limits:</b>	<b>50</b>	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

*Belinda C. Vega*  
Belinda C. Vega  
Laboratory Director



# SEQUOIA ANALYTICAL

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Harding Lawson Associates (Concord)  
1355 Willow Way, Suite 109  
Concord, CA 94520  
Attention: Jeanna Hudson

Client Project ID: #2251,223.03, Texaco, 500 Grand  
Matrix Descript: Soil  
Analysis Method: SM 5520 E&F (Gravimetric)  
First Sample #: 204-0605

Sampled: Apr 15, 1992  
Received: Apr 15, 1992  
Extracted: Apr 16, 1992  
Analyzed: Apr 17, 1992  
Reported: Apr 17, 1992

## TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
204-0605	PI-1	190
204-0606	PI-2	30
204-0607	PI-2A	6,900
204-0608	Fuel Line	36

Detection Limits:

30

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega  
Laboratory Director

2040605.HLA < 4 >



# SEQUOIA ANALYTICAL

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Harding Lawson Associates (Concord)  
1355 Willow Way, Suite 109  
Concord, CA 94520  
Attention: Jeanna Hudson

Client Project ID: #2251,223.03, Texaco, 500 Grand

QC Sample Group: 204-0605

Reported: Apr 17, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Oil and Grease
	EPA 8015/8020 K.N./K.E./J.F. mg/Kg Apr 16, 1992 Matrix Blank	EPA 8015/8020 K.N./K.E./J.F. mg/Kg Apr 16, 1992 Matrix Blank	EPA 8015/8020 K.N./K.E./J.F. mg/Kg Apr 16, 1992 Matrix Blank	EPA 8015/8020 K.N./K.E./J.F. mg/Kg Apr 16, 1992 Matrix Blank	SM5520E&F D. Newcomb mg/Kg Apr 16, 1992 Matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.4	0.4	0.4	1.2	5000
Conc. Matrix Spike:	0.37	0.41	0.44	1.4	4900
Matrix Spike % Recovery:	93	103	110	117	98
Conc. Matrix Spike Dup.:	0.37	0.42	0.45	1.4	4900
Matrix Spike Duplicate % Recovery:	93	105	113	117	98
Relative % Difference:	0	2.4	2.2	0	0

SEQUOIA ANALYTICAL

*Belinda C. Vega*  
Belinda C. Vega  
Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$





# SEQUOIA ANALYTICAL

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Harding Lawson Associates (Concord)

Client Project ID: #2251,223.03, Texaco, 500 Grand

1355 Willow Way, Suite 109

Concord, CA 94520

Attention: Jeanna Hudson

QC Sample Group: 2040605-8

Reported: Apr 17, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
		EPA	EPA	EPA
Method:	8015/8020	8015/8020	8015/8020	8015/8020
Analyst:	K.N./K.E./J.F.	K.N./K.E./J.F.	K.N./K.E./J.F.	K.N./K.E./J.F.
Reporting Units:	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Date Analyzed:	Apr 15, 1992	Apr 15, 1992	Apr 15, 1992	Apr 15, 1992
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
<b>Sample Conc.:</b>	N.D.	N.D.	N.D.	N.D.
<b>Spike Conc. Added:</b>	0.4	0.4	0.4	1.2
<b>Conc. Matrix Spike:</b>	0.44	0.44	0.43	1.3
<b>Matrix Spike % Recovery:</b>	110	110	108	108
<b>Conc. Matrix Spike Dup.:</b>	0.45	0.43	0.43	1.3
<b>Matrix Spike Duplicate % Recovery:</b>	113	108	108	108
<b>Relative % Difference:</b>	2.2	2.3	0	0

SEQUOIA ANALYTICAL

*Belinda C. Vega*  
Belinda C. Vega  
Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$





# SEQUOIA ANALYTICAL

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HARDING ASSOC.  
JSH  
APR 21 1992

Harding Lawson Associates 1355 Willow Way, Suite 109 Concord, CA 94520 Attention: Jeanna Hudson	Client Project ID: 2251,223.03 Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 204-0534	Sampled: Apr 14, 1992 Received: Apr 14, 1992 Analyzed: Apr 15, 1992 Reported: Apr 15, 1992
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## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl Benzene	Xylenes
		Hydrocarbons mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)
204-0534	Composite pea gravel-1	6.8	0.012	0.018	N.D.	0.041
204-0535	pea gravel-2	1.2	N.D.	N.D.	N.D.	N.D.
204-0537	pea gravel-4	N.D.	N.D.	N.D.	N.D.	0.010
204-0547	#1A pea gravel	5.4	0.031	0.054	0.023	0.12

<b>Detection Limits:</b>	<b>1.0</b>	<b>0.0050</b>	<b>0.0050</b>	<b>0.0050</b>	<b>0.0050</b>
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

*Scott A. Chieffo*  
Scott A. Chieffo  
Project Manager



# SEQUOIA ANALYTICAL

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Harding Lawson Associates	Client Project ID: 2251,223.03	Sampled: Apr 14, 1992
1355 Willow Way, Suite 109	Matrix Descript: Soil	Received: Apr 14, 1992
Concord, CA 94520	Analysis Method: EPA 5030/8015/8020	Analyzed: Apr 15, 1992
Attention: Jeanna Hudson	First Sample #: 204-0536	Reported: Apr 15, 1992

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl	Xylenes
		Hydrocarbons			Benzene	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
204-0536	pea gravel-3	160	0.83	0.56	1.1	0.78

Detection Limits:

5.0

0.025

0.025

0.025

0.025

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

  
Scott A. Chieffo  
Project Manager



# SEQUOIA ANALYTICAL

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Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, CA 94520  
Attention: Jeanna Hudson

Client Project ID: 2251,223.03

QC Sample Group: 2040534-0547

Reported: Apr 15, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
	Method:	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020
Analyst:	K.E.	K.E.	K.E.	K.E.
Reporting Units:	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Date Analyzed:	Apr 14, 1992	Apr 14, 1992	Apr 14, 1992	Apr 14, 1992
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.40	0.40	0.40	1.2
Conc. Matrix Spike:	0.38	0.42	0.45	1.4
Matrix Spike % Recovery:	95	105	112	117
Conc. Matrix Spike Dup.:	0.39	0.44	0.47	1.5
Matrix Spike Duplicate % Recovery:	98	110	118	125
Relative % Difference:	2.6	4.6	4.3	6.9

SEQUOIA ANALYTICAL

*Scott A. Chieffo*  
Scott A. Chieffo  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$











CHAIN OF CUSTODY FORM

Lab:

Job Number: 2251, 223, 03  
 Name/Location: Texaco 500 Grand  
 Project Manager: Teanna Hudson

Samplers: Steven Hansen, Teanna Hudson  
 Sumi Smith  
 Recorder: Sumi Smith  
 (Signature Required)

SOURCE CODE	MATRIX				#CONTAINERS & PRESERV.			SAMPLE NUMBER OR LAB NUMBER		DATE				
	Water	Sediment	Soil	Oil	Unpres.	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	Yr	Wk	Seq	Yr	Mo	Dy	Time
49		X			X			9	2	1	9	2	04	14
49		X			1			9	2	0	9	2	04	14
49		X			1			9	2	0	9	2	04	14
49		X			1			9	2	0	9	2	04	14
49		X			1			9	2	0	9	2	04	14
49		X			1			9	2	0	9	2	04	14
49		X			1			9	2	0	9	2	04	14
49		X			1			9	2	0	9	2	04	14
49		X			1			9	2	0	9	2	04	14

STATION DESCRIPTION/NOTES  
 Rapid turn on first  
 4 pea gravel samples  
 Hold all samples for possible additional analyses.  
 HOLD

ANALYSIS REQUESTED											
EPA 601/8010											
EPA 602/8020											
EPA 624/8240											
EPA 625/8270											
ICP METALS											
EPA 8015M/TPH											
BTEX, GRS											

LAB NUMBER			DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
Yr	Wk	Seq				

CHAIN OF CUSTODY RECORD			
RELINQUISHED BY: (Signature) Janice Smith	RECEIVED BY: (Signature) Scott Chief	DATE/TIME 7-14-03 11:20	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME	
DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
METHOD OF SHIPMENT			



**Harding Lawson Associates**  
 1355 Willow Way, Suite 109  
 Concord, California 94520  
 415/687-9660  
 Telecopy: 415/687-9673

# CHAIN OF CUSTODY FORM

Lab: \_\_\_\_\_

Job Number: 2251, 223.03  
 Name/Location: Texaco SOU Grand  
 Project Manager: Teanna Hudson

Samplers: Steve Hansen, Teanna Hudson  
Sunni Smith  
 Recorder: Sunni Smith  
 (Signature Required)

ANALYSIS REQUESTED										
EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	ICP METALS	EPA 8015M/TPH	BTEX 325				

SOURCE CODE	MATRIX				#CONTAINERS & PRESERV.			SAMPLE NUMBER OR LAB NUMBER			DATE			
	Water	Sediment	Soil	Oil	Unpres.	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	Yr	Wk	Seq	Yr	Mo	Dy	Time
17		X			X			72	04	118	72	04	14	
17		X			1			72	04	1-2	72	04	14	
17		X			1			72	04	1-3	72	04	14	
17		X			1			72	04	1-4	72	04	14	
17		X			1			72	04	1-5	72	04	14	
17		X			1			72	04	1-6	72	04	14	
17		X			1			72	04	1-7	72	04	14	
17		X			1			72	04	1-8	72	04	14	

STATION DESCRIPTION/NOTES

Rapid turn on first  
 41 per gravel samples  
 Hold all samples  
 for possible additional  
 analyses ~~HERE~~  
 1/16 req 48 hr  
 turn on TPH  
 BTEX. Req  
 worst sample for  
 72 hr turn

HOLD  
 TCLP/BTEX  
 STLC/LEAD  
 RCI

LAB NUMBER			DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
Yr	Wk	Seq				

CHAIN OF CUSTODY RECORD		
RELINQUISHED BY: (Signature) <i>Teanna Hudson</i>	RECEIVED BY: (Signature) <i>Scott Chiff</i>	DATE/TIME 7-14-78 19:20
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature) DATE/TIME
METHOD OF SHIPMENT		



# SEQUOIA ANALYTICAL

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HARDING ASSOCIATES

APR 20 1992  
APR 20 1992

Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, CA 94520  
Attention: Jeanna Hudson

Client Project ID: 2251, 223.03/ Texaco 500 Grand  
Matrix Descript: Soil  
Analysis Method: EPA 5030/8015/8020  
First Sample #: 204-0670

Sampled: Apr 14, 1992  
Relogged: Apr 16, 1992  
Analyzed: Apr 16, 1992  
Reported: Apr 20, 1992

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Ethyl			
		Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
204-0670	peagravel-5 920414	2.9	N.D.	N.D.	N.D.	N.D.
204-0671	peagravel-6 920414	2.0	N.D.	N.D.	N.D.	0.0054
204-0672	peagravel-7 920414	6.2	N.D.	0.011	N.D.	0.024
204-0673	peagravel-8 920414	N.D.	N.D.	N.D.	N.D.	N.D.
204-0674	peagravel-9 920414	2.4	N.D.	N.D.	N.D.	N.D.

### Detection Limits:

1.0

0.0050

0.0050

0.0050

0.0050

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega  
Laboratory Director

2040670.HLA <1>



# SEQUOIA ANALYTICAL

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(510) 686-9600 • FAX (510) 686-9689

Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, CA 94520  
Attention: Jeanna Hudson

Client Project ID: 2251, 223.03/ Texaco 500 Grand

QC Sample Group: 2040670-674

Reported: Apr 20, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020
Analyst:	K.E.	K.E.	K.E.	K.E.
Reporting Units:	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Date Analyzed:	Apr 16, 1992	Apr 16, 1992	Apr 16, 1992	Apr 16, 1992
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
<b>Sample Conc.:</b>	N.D.	N.D.	N.D.	N.D.
<b>Spike Conc. Added:</b>	0.40	0.40	0.40	1.2
<b>Conc. Matrix Spike:</b>	0.27	0.31	0.36	1.1
<b>Matrix Spike % Recovery:</b>	68	78	90	92
<b>Conc. Matrix Spike Dup.:</b>	0.28	0.32	0.37	1.1
<b>Matrix Spike Duplicate % Recovery:</b>	70	80	93	92
<b>Relative % Difference:</b>	3.6	3.2	2.7	0.0

SEQUOIA ANALYTICAL

Belinda C. Vega  
Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



Job Number: 2251, 223.03  
Name/Location: Texaco 500 Grand  
Project Manager: Jeanna Hudson

Samplers: Steve Hansen; Jeanna Hudson  
Sumi Smith  
Recorder: Sumi Smith  
*(Signature Required)*

Lab: \_\_\_\_\_

ANALYSIS REQUESTED										
EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	ICP METALS	EPA 8015M/TPH					
										STEX, gpc
										2040534
										535
										536
										537
										2040670
										671
										672
										673
										674

CODE	MATRIX				#CONTAINERS & PRESERV.			SAMPLE NUMBER OR LAB NUMBER		DATE				
	Water	Sediment	Soil	Oil	Unpres.	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	Yr.	Wk.	Seq	Yr.	Mo	Dy	Time
	9		X			X			9	2	4	1	4	
9		X			1			9	2	4	1	4		
9		X			1			9	2	4	1	4		
9		X			1			9	2	4	1	4		
9	X	X	X	X	1			9	2	4	1	4		
9	X	X	X	X	1			9	2	4	1	4		
9	X	X	X	X	1			9	2	4	1	4		
9	X	X	X	X	1			9	2	4	1	4		
9	X	X	X	X	1			9	2	4	1	4		

STATION DESCRIPTION/NOTES

Rapid turn on first  
4 pea gravel samples.  
Hold all samples for possible additional analyses.

HOLD

LAB NUMBER		DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
Wk	Seq				

CHAIN OF CUSTODY RECORD		
RELINQUISHED BY: (Signature) <i>James Hank</i>	RECEIVED BY: (Signature) <i>Keith Chiff</i>	DATE/TIME 4-14-04 11:20
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)
METHOD OF SHIPMENT		

Laboratory Copy - Project Office Copy - Field or Office Copy  
White - Yellow - Pink



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

HARDING ASSOC

APP 29 1992

Harding Lawson Associates	Client Project ID: #2251,223.03/ Texaco Grand	Sampled: Apr 14, 1992
1355 Willow Way, Suite 109	Matrix Descript: TCLP Soil Extract	Relogged: Apr 20, 1992
Concord, CA 94520	Analysis Method: EPA 5030/8015/8020	Analyzed: Apr 22, 1992
Attention: Jeanna Hudson	First Sample #: 204-0536	Reported: Apr 23, 1992

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl	Xylenes
		Hydrocarbons			Benzene	
		$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
204-0536	pea gravel - 3	10	8.3	N.D.	N.D.	11

Detection Limits:

600

6.0

6.0

6.0

6.0

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

*for Scott A. Chierfo*  
Project Manager



# SEQUOIA ANALYTICAL

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Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, CA 94520  
Attention: Jeanna Hudson

Client Project ID: #2251,223.03/ Texaco Grand  
Sample Descript: Soil, pea gravel - 3  
Lab Number: 204-0536

Sampled: Apr 14, 1992  
Relogged: Apr 20, 1992  
Analyzed: Apr 20, 1992  
Reported: Apr 23, 1992

## CORROSIVITY, IGNITABILITY, AND REACTIVITY

Analyte	Detection Limit	Sample Results
Corrosivity: pH.....	N.A.	9.2
Ignitability: Flashpoint (Pensky-Martens), °C.....	N.A.	> 100 °C
Reactivity: Sulfide, mg/kg.....	10	N.D.
Cyanide, mg/kg.....	0.50	N.D.
Reaction with water.....	N.A.	Negative

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

  
for Scott A. Chieffo  
Project Manager



# SEQUOIA ANALYTICAL

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Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, CA 94520  
Attention: Jeanna Hudson

Client Project ID: #2251,223.03 / Texaco Grand  
Sample Descript: Soil, pea gravel - 3  
Lab Number: 204-0536

Sampled: Apr 14, 1992  
Relogged: Apr 20, 1992  
Extracted: Apr 21, 1992  
Analyzed: Apr 23, 1992  
Reported: Apr 23, 1992

## LABORATORY ANALYSIS

Analyte

Detection Limit  
mg/kg

Sample Results  
mg/kg


STLC Lead

0.10

0.18

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

  
for Scott A. Chiaffo  
Project Manager

2040536.HLA <3>





# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, CA 94520  
Attention: Jeanna Hudson

Client Project ID: #2251,223.03/ Texaco Grand

QC Sample Group: 204-0536

Reported: Apr 23, 1992

## TCLP EXTRACT

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020
Analyst:	M.N.	M.N.	M.N.	M.N.
Reporting Units:	ug/L	ug/L	ug/L	ug/L
Date Analyzed:	Apr 22, 1992	Apr 22, 1992	Apr 22, 1992	Apr 22, 1992
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	9.2	9.2	9.2	28
Matrix Spike % Recovery:	92	92	92	93
Conc. Matrix Spike Dup.:	91	9.0	9.2	27
Matrix Spike Duplicate % Recovery:	91	90	92	90
Relative % Difference:	1.1	2.2	0.0	3.6

SEQUOIA ANALYTICAL

*Scott A. Chieffo*  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, CA 94520  
Attention: Jeanna Hudson

Client Project ID: #2251,223.03/ Texaco Grand

QC Sample Group: 204-0536

Reported: Apr 23, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	STLC Lead	pH	Sulfide	Cyanide
---------	--------------	----	---------	---------

Method:	EPA 7420	EPA 9040	EPA 9030	EPA 9010
Analyst:	T. Mascarenas	Y.A.	N.Z.	W.C.
Reporting Units:	mg/L	N/A	mg/L	mg/Kg
Date Analyzed:	Apr 23, 1992	Apr 20, 1992	Apr 21, 1992	Apr 14, 1992
QC Sample #:	204-0536	204-3136	204-3126	204-1731

Sample Conc.:	0.18	8.3	N.D.	N.D.
---------------	------	-----	------	------

Spike Conc. Added:	2.0	N/A	10	8.0
--------------------	-----	-----	----	-----

Conc. Matrix Spike:	2.0	N/A	11	7.5
---------------------	-----	-----	----	-----

Matrix Spike % Recovery:	91	N/A	105	94
--------------------------	----	-----	-----	----

Conc. Matrix Spike Dup.:	2.0	8.4	11	6.9
--------------------------	-----	-----	----	-----

Matrix Spike Duplicate % Recovery:	91	N/A	105	86
------------------------------------	----	-----	-----	----

Relative % Difference:	0.0	1.2	0.0	8.3
------------------------	-----	-----	-----	-----

SEQUOIA ANALYTICAL

*Scott A. Chieffo*  
 Scott A. Chieffo  
 Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$





APPENDIX C  
SOIL DISPOSAL TRANSPORT MANIFESTS

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Tenaco Generating Location Tenaco  
 Address 136 Cutting Blvd. Address 709 Grand Ave.  
Richmond, CA 94804 Oakland, CA

Phone No. 510-276-7721 Phone No. 510-464-1111

BFI Waste Code	Description of Waste	Quantity	Units	Containers No.	Containers Type
101	NON-HAZARDOUS SOLID	2	1	1	D

- Type  
 D - Drum  
 C - Carton  
 B - Bag  
 T - Truck  
 P - Pounds  
 Y - Yards  
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON BEHALF OF TENACO  
 Generator Authorized Agent Name [Signature] Signature [Signature] Shipment Date 050492

**TRANSPORTER**

Truck No. 231 Phone No. 310-634-8850  
 Transporter Name Dillard Trucking, Inc. Driver Name (Print) LEAT POTT  
P. O. Box 218 2815  
 Address Byron, California 94544 Vehicle License No./State 3Z88745  
 Vehicle Certification 300806

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 050492 Driver Signature [Signature] Delivery Date 050492

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. 310-447-0492  
4001 North Vasco Rd., Livermore, Ca. 94550  
 Address \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_









**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name \_\_\_\_\_ Generating Location \_\_\_\_\_

Address \_\_\_\_\_ Address 300 Grand Ave.

\_\_\_\_\_ Oakland, CA

Phone No. [ ][ ][ ] - [ ][ ][ ][ ][ ][ ] Phone No. [ ][ ][ ] - [ ][ ][ ][ ][ ][ ]

BFI Waste Code [ ][ ] [ ][ ][ ] [ ][ ][ ][ ] [ ][ ][ ][ ][ ] Description of Waste Quantity Units Containers No. Type

Description of Waste	Quantity					Units	Containers		Type
	1	2	3	4	5		No.	Type	
NON-PAVING SOIL	0	0	0	1	0	Y	0		

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

IN BEHALF OF GENERATOR  
Generator Authorized Agent Name \_\_\_\_\_ Signature \_\_\_\_\_ Shipment Date 05-04-02

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. 310-634-6850

Transporter Name Billard Trucking, Inc. Job # 28 15 Driver Name (Print) RALPH J...

Address P. O. Box 213 Byron, California 94544 Vehicle License No./State 5K1111

Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_ Shipment Date 05-04-02 Driver Signature \_\_\_\_\_ Delivery Date \_\_\_\_\_

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. 310-447-0401

Address 4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_

GENERATOR RETAIN



**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name \_\_\_\_\_ Generating Location \_\_\_\_\_  
 Address 108 Cutting Blvd. Address 500 Grand Ave.  
Richmond, CA 94804 Oakland, CA

Phone No. - Phone No. -  
 BFI Waste Code  Description of Waste  Quantity  Units  No.  Type

Description of Waste	Quantity	Units	No.	Type
NON HAZARDOUS SOIL	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- Type  
 D - Drum  
 C - Carton  
 B - Bag  
 T - Truck  
 P - Pounds  
 Y - Yards  
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name \_\_\_\_\_ Signature [Signature] Shipment Date 05/09/97

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. 510-634-6850  
 Transporter Name Dillard Trucking, Inc. Driver Name (Print) [Signature]  
Job # 28715  
 Address P. O. Box 218 Vehicle License No./State 282200  
Byron, California 94544 Vehicle Certification 204255

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Carrier Signature [Signature] Shipment Date 050497 Driver Signature \_\_\_\_\_ Delivery Date \_\_\_\_\_

**DESTINATION**

Site Name 3.F.I. Vasco Road Landfill Phone No. 510-1470431  
4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Texaco Generating Location Texaco  
 Address 170 Cutting Blvd. Address 300 Grand Ave.  
Richmond, CA 94304 Oakland, CA

Phone No. 714-270-7111 Phone No. 415-741-1111  
 BFI Waste Code 1 2 3 4 5 6 7 8 9 0

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
NON HAZARDOUS SOIL	0 0 0 1 0	0	0	0	D - Drum
					C - Carton
					B - Bag
					T - Truck
					P - Pounds
					Y - Yards
					O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON-BEHALF OF TEXACO  
[Signature] [Signature]  
 Generator Authorized Agent Name Signature Shipment Date 05 24 92

**TRANSPORTER**

Truck No. 7 Phone No. 510-634-6850  
 Transporter Name Dillard Trucking, Inc. Driver Name (Print) [Print Name]  
Job # 28/13  
 Address P. O. Box 218 Vehicle License No./State [License]  
Byron, California 94344 Vehicle Certification [Certification]

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] [Signature]  
 Driver Signature Shipment Date 05 24 92 Driver Signature Delivery Date [Date]

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. 510-447-0191  
 Address 4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

[Signature] [Signature]  
 Name of Authorized Agent Signature Receipt Date [Date]

PASS CODE \_\_\_\_\_



**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Texaco Generating Location Texaco  
 Address 108 Cutting Blvd. Address 500 Grand Ave.  
Richmond, CA 94804 Oakland, CA

Phone No. 510-237-3711 Phone No.                     

BFI Waste Code	Description of Waste	Quantity	Units	Containers		Type
				No.	Type	
<u>04</u>	<u>NON HAZARDOUS SOIL</u>	<u>00010</u>	<u>Y</u>	<u>0</u>	<u>0</u>	<u>7</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON BEHALF OF TEXACO  
 Generator Authorized Agent Name [Signature] Signature [Signature] Shipment Date 050492

**TRANSPORTER**

Truck No.                      Phone No. 510-634-6830  
 Transporter Name Dillard Trucking, Inc. Driver Name (Print) [Signature]  
Job # 25.15  
 Address P. O. Box 218 Vehicle License No./State                       
Byron, California 94544 Vehicle Certification                     

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 050492 Driver Signature                      Delivery Date                     

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. 510-447-0101  
4001 North Vasco Rd., Livermore, Ca. 94530

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent                      Signature                      Receipt Date                     

PASS CODE

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Texasco Generating Location Texasco  
 Address 100 Parsons Blvd. Address 300 Grand Ave.  
Richmond, CA 94804 Oakland, CA

Phone No. 707-478-7711 Phone No. 415-764-1111

BFI Waste Code	Description of Waste	Quantity	Units	Containers No.	Containers Type
01	NON HAZARDOUS SOIL	00013	7	0	

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name ON BEHALF OF TEXASCO Signature [Signature] Shipment Date 050492

**TRANSPORTER**

Truck No. 231 Phone No. 510-634-6250  
 Transporter Name Dillard Trucking, Inc. Driver Name (Print) [Signature]  
Job # 28715  
 Address P. O. Box 218 Vehicle License No./State 22 59 705  
Byron, California 94544 Vehicle Certification 300506

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Carrier Signature [Signature] Shipment Date 050492 Driver Signature [Signature] Delivery Date 050492

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. 510-447-0401  
 Address 4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_







**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name TEXACO Generating Location \_\_\_\_\_  
 Address 108 Cutting Blvd. Address \_\_\_\_\_  
Richmond, CA 94804

Phone No. 510-232-7000 Phone No. \_\_\_\_\_  
 BFI Waste Code 5A 103 012120 0094 Containers \_\_\_\_\_

Description of Waste	Quantity	Units	Containers	
			No.	Type
NON HAZARDOUS SOIL	0094			

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name ON BEHALF OF TEXACO Signature [Signature] Shipment Date 05-01-92

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. 510-634-3850  
 Transporter Name Dillard Trucking, Inc. Driver Name (Print) \_\_\_\_\_  
P. O. Box 218 2815  
Byron, California 94544 Vehicle License No./State \_\_\_\_\_  
 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Generator Signature \_\_\_\_\_ Shipment Date 05-01-92 Driver Signature \_\_\_\_\_ Delivery Date \_\_\_\_\_

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. \_\_\_\_\_  
4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Texaco Generating Location Texaco

Address 100 Sutting Blvd. Address 500 Grand Ave.  
Richmond, CA 94304 Oakland, CA

Phone No. 714-273-7111 Phone No. 510-462-1111

BFI Waste Code 04403042402 33010 Containers

Description of Waste	Quantity	Units	No.	Type
NON HAZARDOUS SOIL	00413	0	07	7

- Type  
 D - Drum  
 C - Carton  
 B - Bag  
 T - Truck  
 P - Pounds  
 Y - Yards  
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON BEHALF OF TEXACO  
Generator Authorized Agent Name Signature 050492  
 Shipment Date

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. 310-634-6850

Transporter Name Dillard Trucking, Inc. Driver Name (Print) Dickinson  
Job # 28715

Address P. O. Box 218 Vehicle License No./State 9K17107  
Byron, California 94544 Vehicle Certification 300212

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature Shipment Date Driver Signature Delivery Date

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. 510-4470491  
4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent Signature Receipt Date

PASS CODE \_\_\_\_\_

# NON-HAZARDOUS SPECIAL WASTE MANIFEST

## GENERATOR

Generator Name Texas Generating Location Texas  
 Address 100 Dorringer Blvd. Address 300 Grand Ave.  
Richmond, CA 94804 Oakland, CA

Phone No. 214-237-9712 Phone No. 415-341-0

BFI Waste Code	Description of Waste	Quantity	Units	Containers No.	Containers Type
03042102	NON HAZARDOUS SOIL	00000		2	

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON BEHALF OF TEXACO  
 Generator Authorized Agent Name [Signature] Signature [Signature] Shipment Date 050492

## TRANSPORTER

Truck No. 70 Phone No. 310-634-6830  
 Transporter Name Dillard Trucking, Inc. Driver Name (Print) JEFF WHEELER  
Job # 2815  
 Address P. O. Box 218 Vehicle License No./State 1C80154  
Byron, California 94544 Vehicle Certification 106810

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 050492 Driver Signature [Signature] Delivery Date [Signature]

## DESTINATION

Site Name B.F.I. Vasco Road Landfill Phone No. 510-447-0431  
4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent [Signature] Signature [Signature] Receipt Date [Signature]

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Texaco Generating Location Texas  
 Address 100 Gullwing Blvd. Address 500 Grand Ave.  
Richmond, CA 94804 Oakland, CA

Phone No. 714 234-9711 Phone No. 415 549-2111

BFI Waste Code 0A 103 042492 03049 Containers 3 / 1  
 Description of Waste NON-HAZARDOUS SOIL Quantity 3 Units 1 Type D  
 Type: D - Drum, C - Carton, B - Bag, T - Truck, P - Pounds, Y - Yards, O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON BEHALF OF TEXACO  
 Generator Authorized Agent Name [Signature] Signature [Signature] Shipment Date 050492

**TRANSPORTER**

Truck No. 01 Phone No. 310-634-6850  
 Transporter Name Dillard Trucking, Inc. Driver Name (Print) KEVIN DUARTE  
Job # 2815  
 Address P. O. Box 218 Vehicle License No./State 3X11065 CA  
Syron, California 94544 Vehicle Certification 200924

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.  
 Driver Signature [Signature] Shipment Date 050412 Driver Signature [Signature] Delivery Date [Signature]

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. 310-447-0131  
4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.  
 Name of Authorized Agent [Signature] Signature [Signature] Receipt Date [Signature]

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Texaco Generating Location Texas  
 Address 108 Cutting Blvd. Address 300 Grand Ave.  
Richmond, CA 94804 Oakland, CA

Tone No. 5 1 5 - 2 0 2 7 5 7 1 Phone No.      -     

BFI Waste Code 04 107 042402 00015 Containers 

Type	Quantity	Units	No.	Type
D - Drum	<u>0</u> <u>0</u> <u>0</u> <u>1</u> <u>0</u>	<u>0</u>	<u>0</u> <u>7</u>	<u>0</u>
C - Carton	<u>    </u> <u>    </u> <u>    </u> <u>    </u> <u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u>
B - Bag	<u>    </u> <u>    </u> <u>    </u> <u>    </u> <u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u>
T - Truck	<u>    </u> <u>    </u> <u>    </u> <u>    </u> <u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u>
P - Pounds	<u>    </u> <u>    </u> <u>    </u> <u>    </u> <u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u>
Y - Yards	<u>    </u> <u>    </u> <u>    </u> <u>    </u> <u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u>
O - Other	<u>    </u> <u>    </u> <u>    </u> <u>    </u> <u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u>

Description of Waste  
NON HAZARDOUS SOLID

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON BEHALF OF TEXACO  
 Generator Authorized Agent Name [Signature] Signature [Signature] Shipment Date 050692

**TRANSPORTER**

Truck No. 3 Phone No. 510-634-6850  
 Transporter Name Dillard Trucking, Inc. Driver Name (Print) LARRY MCGUIRE  
28715 Vehicle License No./State 2Y61736  
 Address P. O. Box 218 Byron, California 94544 Vehicle Certification 3/1/81

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 050492 Driver Signature      Delivery Date     

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. 3 1 0 - 4 4 7 0 4 9 1  
4001 North Vasco Rd., Livermore, Ca. 94550  
 Address     

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent      Signature      Receipt Date     

PASS CODE

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name \_\_\_\_\_ Generating Location Pennington

Address 1011 Pennington Blvd. Address 500 Grand Ave.  
Pennington, CA 94304 Oakland, CA

Phone No.                       Phone No.                      

BFI Waste Code	Description of Waste	Quantity	Units	Containers		Type
				No.	Type	
<u>          </u>	<u>NON-HAZARDOUS SOIL</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name \_\_\_\_\_ Signature \_\_\_\_\_ Shipment Date           

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. 510-431-6030

Transporter Name Dillard Trucking, Inc. Driver Name (Print) \_\_\_\_\_  
P.O. Box 213  
Syracuse, California 94544

Vehicle License No./State \_\_\_\_\_  
Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_ Shipment Date            Driver Signature \_\_\_\_\_ Delivery Date           

**DESTINATION**

Site Name C.F. W. Vasco Road Landfill Phone No.             
4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date           

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name \_\_\_\_\_ Generating Location \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_  
 Richmond, CA 94804

Phone No. [ ][ ][ ]-[ ][ ][ ][ ][ ][ ][ ][ ] Phone No. [ ][ ][ ]-[ ][ ][ ][ ][ ][ ][ ][ ]

BFI Waste Code	Description of Waste	Quantity	Units	Containers		Type
				No.	Type	
[ ][ ]	NON HAZARDOUS SOIL	[ ][ ][ ][ ]	[ ]	[ ][ ]	[ ]	D - Drum
		[ ][ ][ ][ ]	[ ]	[ ][ ]	[ ]	C - Carton
		[ ][ ][ ][ ]	[ ]	[ ][ ]	[ ]	B - Bag
						T - Truck
						P - Pounds
						Y - Yards
						O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON BEHALF OF TENACO

Generator Authorized Agent Name Joe Dea Beste Signature \_\_\_\_\_ Shipment Date [ ][ ][ ]-[ ][ ][ ]

**TRANSPORTER**

Truck No. 3 Phone No. \_\_\_\_\_  
 Transporter Name Dillard Trucking, Inc. Job # \_\_\_\_\_ Driver Name (Print) \_\_\_\_\_  
P. O. Box 218 28 15  
 Address Byron, California 94544 Vehicle License No./State \_\_\_\_\_  
 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_ Shipment Date [ ][ ][ ]-[ ][ ][ ] Driver Signature \_\_\_\_\_ Delivery Date [ ][ ][ ]-[ ][ ][ ]

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. [ ][ ][ ]-[ ][ ][ ][ ][ ][ ][ ]  
1001 North Vasco Rd., Livermore, Ca. 94550  
 Address \_\_\_\_\_

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date [ ][ ][ ]-[ ][ ][ ]

PASS CODE \_\_\_\_\_







**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name \_\_\_\_\_ Generating Location \_\_\_\_\_

Address \_\_\_\_\_ Address \_\_\_\_\_

Phone No. [ ][ ]-[ ][ ][ ][ ][ ][ ][ ][ ][ ]

Phone No. [ ][ ][ ][ ]-[ ][ ][ ][ ][ ][ ][ ][ ][ ]

BFI Waste Code [ ][ ] [ ][ ][ ][ ][ ][ ][ ][ ][ ]

[ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

Description of Waste

Quantity

Units

Containers

Type

- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

NON HAZARDOUS SOIL

Quantity	Units	No.	Type
[ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]	[ ][ ]	[ ][ ]	[ ][ ]
[ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]	[ ][ ]	[ ][ ]	[ ][ ]
[ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]	[ ][ ]	[ ][ ]	[ ][ ]

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON BEHALF OF TEXACO

Generator Authorized Agent Name \_\_\_\_\_

Signature \_\_\_\_\_

Shipment Date [ ][ ][ ][ ][ ][ ][ ][ ][ ]

**TRANSPORTER**

Truck No. 5 Phone No. 310-634-6850

Transporter Name Dillard Trucking, Inc. Driver Name (Print) Tasha L. [unclear]

Address P. O. Box 218 Vehicle License No./State WINDLEAS

Byron, California 94544 Vehicle Certification 2003 [unclear]

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_

Shipment Date [ ][ ][ ][ ][ ][ ][ ][ ][ ]

Driver Signature \_\_\_\_\_

Delivery Date [ ][ ][ ][ ][ ][ ][ ][ ][ ]

**DESTINATION**

Site Name B.F.I. Vasco Road Landfill Phone No. 310-447-0401

Address 4001 North Vasco Rd., Livermore, Ca. 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_

Signature \_\_\_\_\_

Receipt Date [ ][ ][ ][ ][ ][ ][ ][ ][ ]

PASS CODE \_\_\_\_\_



# NON-HAZARDOUS SPECIAL WASTE MANIFEST

## GENERATOR

Generator Name \_\_\_\_\_ Generating Location \_\_\_\_\_

Address 2700 Mission Blvd. Address \_\_\_\_\_  
San Ramon, CA 94504

Phone No. 925-270-7700 Phone No. \_\_\_\_\_

BFI Waste Code	Description of Waste	Quantity	Units	Containers		Type
				No.	Type	
<u>01</u>	<u>NON-HAZARDOUS SOLID</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>D - Drum</u>
						<u>C - Carton</u>
						<u>B - Bag</u>
						<u>T - Truck</u>
						<u>P - Pounds</u>
						<u>Y - Yards</u>
						<u>O - Other</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

ON BEHALF OF TEXACO  
[Signature] Generator Authorized Agent Name \_\_\_\_\_ Signature \_\_\_\_\_  
 \_\_\_\_\_ Shipment Date \_\_\_\_\_

## TRANSPORTER

Truck No. \_\_\_\_\_ Phone No. \_\_\_\_\_

Transporter Name Dillard Trucking, Inc. Driver Name (Print) \_\_\_\_\_  
2815

Address P. O. Box 218 Vehicle License No./State \_\_\_\_\_  
Byron, California 94544

Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_  
 \_\_\_\_\_ Driver Signature \_\_\_\_\_ Delivery Date \_\_\_\_\_

## DESTINATION

Site Name B.F.I. Tisco Road Landfill Phone No. 925-270-7700

Address 4001 North Tisco Rd., Livermore, CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

\_\_\_\_\_  
 Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_















DISTRIBUTION

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QUALITY CONTROL REVIEWER



Edward R. Close  
Principal Geologist