

**M E C A**

42 California Avenue, Orinda, California 94563  
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Project # 104101

November 22, 1999

Eva Chu  
Hazardous Materials Specialist  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway  
Alameda, California 94502

Re: Completion Report for Remediation of Soil  
Truck Accident Near Fallon Road and Croak Road, Pleasanton, CA

Dear Ms. Chu,

MECA is submitting the subject report letter to Alameda County Environmental Health Services (ACEH) on behalf of the property owners: Jennifer Lin, Frederic Lin, and Kevin Lin, c/o Charter Properties located at 6601 Owens Drive, Suite 100, Pleasanton, California, 94588. This report describes the remediation effort implemented to achieve closure for the Site.

On December 28, 1998, a truck traveled off of Fallon Road and into a field. Investigation of soil in the area disturbed by the truck contained concentrations of TPHd above 100 mg/kg. Remediation of the area disturbed by the truck has been performed by excavating soil affected with TPHd above 100 mg/kg. Following excavation, samples of soil remaining at the Site did not reveal concentrations of TPHd, BTEX, or MTBE above their respective detection limits. Based on these data, the remediation performed at the Site has been successful. Therefore, we recommend that no further action is warranted at this Site.

Please forward your written comments and approval to MECA and to Mr. Martin Inderbitzen located at 5510 Sunol Boulevard, Suite A, Pleasanton, California 94566. Should you have any questions or concerns, please call me at (925) 258-9200.

Sincerely,



Steven I. Michelson, R.G.  
Environmental Consultant

SIM

cc: Martin Inderbitzen

99 NOV 24 PM 2:54  
ENVIRONMENTAL  
PROTECTION

**COMPLETION REPORT**  
**TRUCK ACCIDENT AT FALLON ROAD**  
**Fallon Road and Croak Road, Pleasanton, California**

**November 22, 1999**

Prepared for:

**Martin Inderbitzen**  
5510 Sunol Blvd., Suite A  
Pleasanton, CA 94566

Prepared by:

**M E C A**  
42 California Avenue  
Orinda, California 94563  
(925) 258-9200



Steven Michelson  
California Registered Geologist (5165)

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## 1. INTRODUCTION

This Completion Report (Report) is submitted by MECA on behalf of Mr. Martin Inderbitzen to the Alameda County Environmental Health Services (ACEHS) for the truck accident at Fallon Road Pleasanton, California (Site), see Figure 1. On December 28, 1998, a truck traveled off of Fallon Road and into a field. Subsequent to the accident, petroleum hydrocarbon odors were observed in the area disturbed by the truck. This report presents the methods and results of the remediation implemented at the Site on October 22, 1999.

The *Site Assessment Work Plan* (Work Plan, MECA, May 21, 1999) was designed to characterize the area disturbed by the truck. ACEHS approved the Work Plan and requested that a boring be extended to collect a groundwater sample (ACEHS, July 12, 1999). The Work Plan was implemented on August 12, 1999 and the results were documented in the *Site Assessment Report*, which also recommended an approach for remediation of the Site (MECA, September 30, 1999). ACEHS approved the remediation approach in their letter dated October 12, 1999.

## 2. SITE DESCRIPTION AND PREVIOUS INVESTIGATIONS

### 2.1 SITE DESCRIPTION

The Site is located northwest of the intersection of Fallon Road and Croak Road near Pleasanton, California (Figure 1). The Site is situated in the southeast corner of a large field used primarily for grazing cattle. The field is bounded on the south by the westbound onramp to Highway 580 and on the east by Fallon Road. South of Highway 580, Fallon Road becomes El Charro, which is the name of the exit off of Highway 580. Except for a drainage ditch and chain link fence, the Site appears to be undeveloped.

### 2.2 GEOLOGY AND HYDROGEOLOGY

The topography of the Site is generally flat with a very gentle upslope toward the hills to the north. The native geologic materials in the upper 12 to 18 inches observed in the disturbed area consist of dark grayish brown fine sandy silt to silty clay with loam and organic materials. The geologic materials that were observed in the hand augered soil borings advanced at the Site on August 12, 1999 generally consisted of silty clay to a depth of 16 feet below ground surface (bgs).

Based on the topography and the orientation of the valley, the inferred groundwater gradient is toward the west. The ground surface elevation of the Site is approximately 350 feet above mean sea level (msl). Groundwater elevation is reported in this area to be between 320 to 330 feet

above mean sea (ACEHS, July 1999). Based on this information, the depth to the groundwater potentiometric surface is in the range of 20 to 30 feet below ground surface. Groundwater was not encountered in boring B5, which was advanced to 16 feet bgs.

## **2.3 PREVIOUS INVESTIGATIONS**

### **2.3.1 Site Reconnaissance**

On December 28, 1998, a truck pulling an end-dump loaded with fill material reportedly traveled north off of Fallon and Croak Roads and into the Site. The related California Highway Patrol Traffic Collision Report is number 12-178. Following the accident, petroleum odors were sensed in the area disturbed by the truck. Site reconnaissance performed on January 15, 1999 confirmed that petroleum-like odors were present in the shallow disturbed soil north of the drainage ditch.

The area disturbed by the truck was roughly 40 feet long and about 15 feet wide. Since the truck that reportedly used diesel fuel, the odors were assumed to be related to diesel fuel spilled during the truck accident. In addition to the area disturbed by the truck, a small pile of soil northeast of the tire tracks near the fence also revealed petroleum odors. The source of the soil pile was assumed to be related to the truck accident.

### **2.3.2 Site Investigation**

A soil and groundwater investigation was performed at the Site on August 12, 1999. Eight hand augered borings were advanced and 19 soil samples were collected between ground surface and about 10 feet below ground surface (bgs) at the locations shown in Figure 1. The soil samples were analyzed for total petroleum hydrocarbons as diesel (TPHd) using EPA Method 8015 and the composite soil sample was also analyzed for benzene, toluene, ethyl benzene, and xylenes (BTEX) using EPA Method 8020 and for total organic carbon (TOC). Table 1 summarizes the locations, depths, and analytical results of the soil samples collected at the Site. A groundwater sample was not collected because the deepest boring advanced at the Site, to a depth of 16 feet bgs, did not encounter groundwater.

Based on the *Leaking Underground Fuel Tank Field Manual* (LUFT, SWRCB, 1989), the remedial goal proposed for TPHd in soil at this Site was calculated as 100 mg/kg. Concentrations of TPHd above the proposed remedial goal of 100 mg/kg were limited to soil samples collected from borings B3 and B4 advanced within the disturbed area and from boring P1 advanced within the soil pile. The analytical data limited the vertical extent of TPHd above 100 mg/kg between ground surface and approximately 3 feet bgs.

### 3. SITE REMEDIATION

The recommended remediation of the Site consisted of excavating soil with TPHd concentrations above 100 mg/kg and transporting and disposing the soil at an appropriate offsite landfill. Remediation of the Site was implemented on October 22, 1999. Field work was performed under the direction of a California Registered Geologist. All chemical analyses were performed by Chromalab of Pleasanton, California, which is a California certified analytical laboratory.

#### 3.1 SOIL EXCAVATION AND DISPOSAL

Approximately 28 tons of soil were excavated using a backhoe at the approximate location shown on Figure 2. The excavation extended to approximately 4.5 feet bgs in the disturbed area, and 2.5 feet bgs at the soil pile. The lateral and vertical extent of the soil excavation was determined using olfactory and visual observations. All excavated soil was loaded into an end-dump. Following completion of the remediation, the excavation was partially backfill using nearby native soil.

The excavated soil was transported to the Altamont Landfill for disposal. Appendix B contains a copy of the landfill certificate for the receipt of 86,940 pounds, or 27.78 tons, of soil. Based on the analytical results from the Site investigation, the landfill considered the soil suitable for use as Class II cover material.

#### 3.2 COLLECTION AND ANALYSIS OF SOIL SAMPLES

Soil sampling was performed to assess the effectiveness of the remediation performed at the Site. Three soil samples (C1, C2, CP1) were collected from the base of the excavation at the locations shown on Figure 2. The soil samples were collected by pushing a brass tube into soil contained in the backhoe bucket. The ends of the brass tubes were sealed with plastic caps and then the sample tube was labeled and placed in an ice chest containing ice. The samples were transported to the analytical laboratory under chain-of-custody protocols.

The three soil samples were analyzed for TPHd using EPA Method 8015, and MTBE and BTEX using EPA Method 8020. The analysis of BTEX and MTBE were performed in accordance with the request from ACEHS in their letter dated October 12, 1999.

The soil samples did not reveal concentrations of TPHd, BTEX, or MTBE above the detection limit of 1.0 mg/kg, 0.0050 mg/kg, or 0.0050 mg/kg, respectively. Table 1 summarizes the analytical results of the soil samples collected at the Site.

#### 4. CONCLUSIONS AND RECOMMENDATIONS

In December 1998, a truck accidentally traveled into the Site. Soil in the area disturbed by the truck contained concentrations of TPHd above 100 mg/kg. Remediation of the area disturbed by the truck was performed by excavating soil affected with TPHd above 100 mg/kg. Following excavation, samples of soil remaining at the Site did not reveal concentrations of TPHd, BTEX, or MTBE above their respective detection limits. Based on these data, the remediation performed at the Site has been successful. Therefore, no further action is warranted at this Site.

## REFERENCES

- Alameda County Environmental Health Services, *Site Assessment at Fallow Road and Croak Road*. Letter to MECA. July 12, 1999.
- Alameda County Environmental Health Services, *Workplan Approval for Fallow and Croak Roads*. Letter to MECA. October 22, 1999.
- ASTM. *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites, E 1739-95*. November, 1995r.
- Graymer, R.W., Jones, D.L., Brabb, E.E., *Preliminary Geologic Map Emphasizing Bedrock Formations in Alameda County, California: Derived from the Digital Database Open-File Report 96-252*, United States Geological Survey, 1996.
- Helley, E.J., and Graymer, R.W., *Quaternary Geology of Alameda County, and Surrounding Areas: Derived from the Digital Database Open-File Report 97-97*, United States Geological Survey, 1997.
- Lawrence Livermore National Laboratory, *Recommendations to Improve the Cleanup Processes for California's Leaking Underground Fuel Tanks*. October 16, 1995.
- MECA, *Site Investigation Work Plan*, May 21, 1999.
- MECA, *Site Investigation Report*, September 30, 1999.
- Regional Water Quality Control Board - San Francisco Bay Region, *Memorandum - Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Fuel Sites*, January 5, 1996.
- Regional Water Quality Control Board - San Francisco Bay Region, *San Francisco Basin - Water Quality Control Plan*, June 21, 1995.



**TABLES**

TABLE 1:

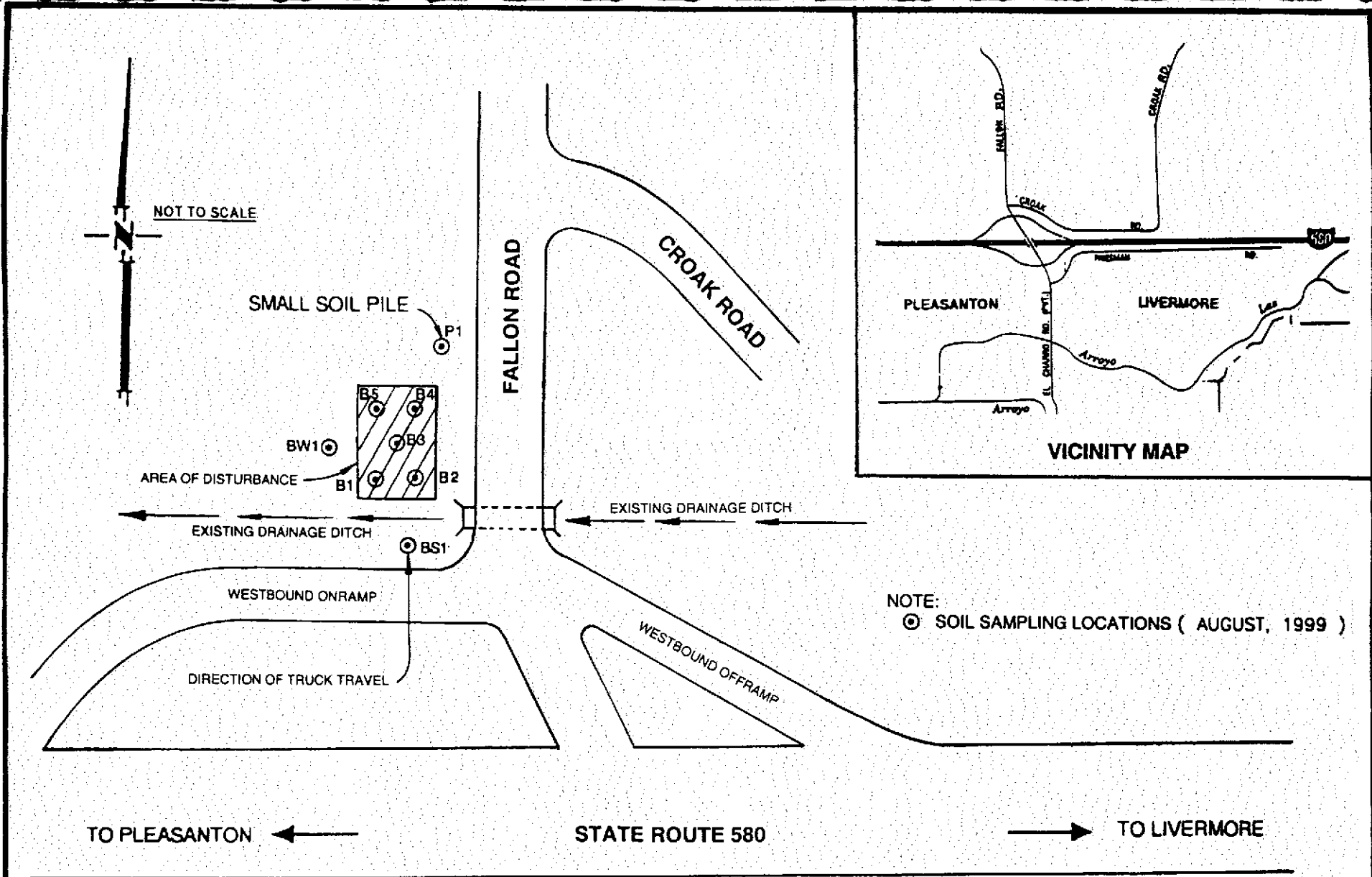
**Summary of Investigation and Remediation Soil Sample Results**  
**Truck Accident at Fallon Road and Croak Road, Pleasanton, California**

Sample Identity	Date Collected	Depth (ft)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TOC (percent)
<b>Investigation Soil Samples</b>									
B1	12-Aug-99	0.5	5.2 *	--	--	--	--	--	--
		1.5	9.2 *	--	--	--	--	--	--
B2	12-Aug-99	0.5	11 *	--	--	--	--	--	--
		1.5	12 *	--	--	--	--	--	--
B3	12-Aug-99	0.5	2,400	--	--	--	--	--	--
		1.5	1,700	--	--	--	--	--	--
		3.0	1,100	--	--	--	--	--	--
		5.0	16	--	--	--	--	--	--
B4	12-Aug-99	0.5	300	--	--	--	--	--	--
		1.5	13 *	--	--	--	--	--	--
B5	12-Aug-99	0.5	60	--	--	--	--	--	--
		1.5	2.0	--	--	--	--	--	--
BS1	12-Aug-99	0.5	3.4 *	--	--	--	--	--	--
BW1	12-Aug-99	0.5	7.0 *	--	--	--	--	--	--
P1	12-Aug-99	0.5	2,100	--	--	--	--	--	--
		1.5	360	--	--	--	--	--	--
		3.0	4.2	--	--	--	--	--	--
B-1,2,3,4,5/P-1	12-Aug-99	1.0	310	<0.0050	<0.0050	<0.0050	<0.0050	--	0.88
<b>Remediation Soil Samples</b>									
C1	22-Oct-99	4.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--
C2	22-Oct-99	4.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--
CP1	22-Oct-99	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--

**NOTES:**

- TPHd: Total petroleum hydrocarbons as diesel  
 TOC: Total organic carbon  
 MTBE: Methyl tertiary butyl ether  
 --: not analyzed  
 \* non diesel pattern (Chromalab)

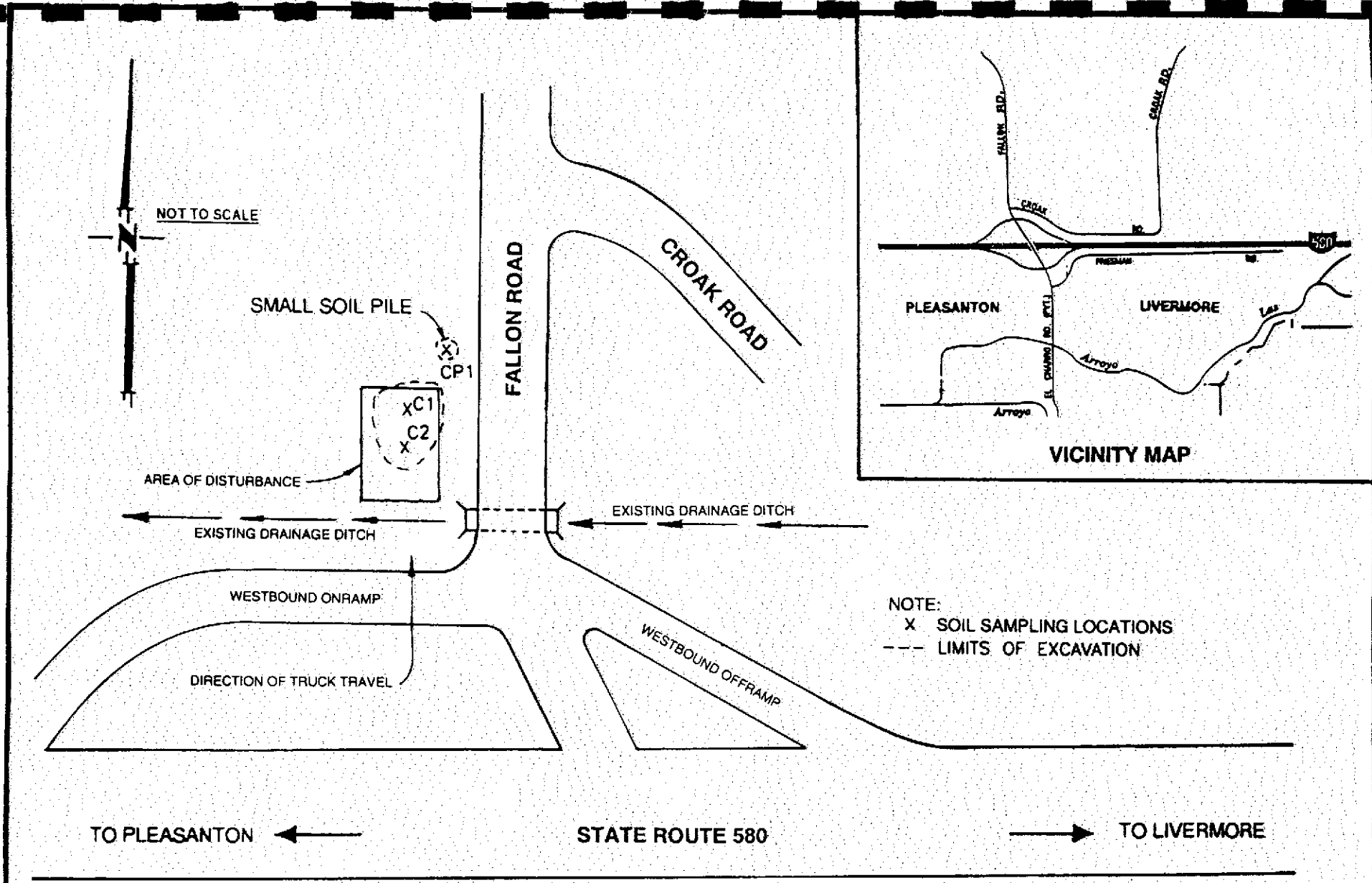
**FIGURES**



**FIGURE 1: SITE MAP AND INVESTIGATION SAMPLE LOCATIONS**

INCIDENT AT FALLON ROAD AND CROAK ROAD, LIVERMORE, CALIFORNIA

NOT TO SCALE



**FIGURE 2: SITE MAP AND REMEDIATION SAMPLE LOCATIONS**

INCIDENT AT FALLON ROAD AND CROAK ROAD, LIVERMORE, CALIFORNIA

NOT TO SCALE

**APPENDIX A**  
**LABORATORY ANALYTICAL REPORTS**

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

Diesel

**MECA**✉ 42 California Avenue  
Orinda, CA 94563

Attn: Steve Michelson

Phone: (925) 258-9200 Fax: (925) 258-9867

Project #:

Project:

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
C1-4*	Soil	10/22/1999 10:15	1
C2-3*	Soil	10/22/1999 10:20	2
CP-1-4*	Soil	10/22/1999 10:30	3

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

Date: November 1, 1999

**MECA**42 California Avenue  
Orinda, CA 94563

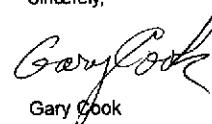
Attn.: Mr. Steve Michelson

Dear Steve,

Attached is our report for your samples received on Friday October 22, 1999.  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after November 21, 1999  
unless you have requested otherwise. We appreciate the opportunity to be of service to you.  
If you have any questions, please call me at (925) 484-1919.

Sincerely,

  
Gary Cook

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

To: **MECA**  
Attn.: Steve MichelsonTest Method: 8015m  
Prep Method: 3550/8015M**Batch QC Report**  
Diesel

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 1999/10/27-02.10</b>
MB: 1999/10/27-02.10-001		Date Extracted: 10/27/1999 09:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	10/28/1999 02:56	
<b>Surrogate(s)</b> o-Terphenyl	102.0	60-130	%	10/28/1999 02:56	

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

To: **MECA**  
Attn.: Steve MichelsonTest Method: 8015m  
Prep Method: 3550/8015M

## Diesel

Sample ID: <b>CP-1-4'</b>	Lab Sample ID: <b>1999-10-0395-003</b>
Project:	Received: 10/22/1999 13:00
	Extracted: 10/27/1999 09:00
Sampled: 10/22/1999 10:30	QC-Batch: 1999/10/27-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	10/28/1999 20:06	
<b>Surrogate(s)</b> o-Terphenyl	97.7	60-130	%	1.00	10/28/1999 20:06	



**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

To: **MECA**  
Attn.: Steve MichelsonTest Method: 8015m  
Prep Method: 3550/8015M

Diesel

Sample ID: <b>C2-3</b>	Lab Sample ID: <b>1999-10-0395-002</b>
Project:	Received: 10/22/1999 13:00
	Extracted: 10/27/1999 09:00
Sampled: 10/22/1999 10:20	QC-Batch: 1999/10/27-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	10/28/1999 19:19	
<i>Surrogate(s)</i> o-Terphenyl	93.4	60-130	%	1.00	10/28/1999 19:19	

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

To: **MECA**  
Attn.: Steve MichelsonTest Method: 8015m  
Prep Method: 3550/8015M

Diesel

Sample ID: <b>C1-4</b>	Lab Sample ID: <b>1999-10-0395-001</b>
Project:	Received: 10/22/1999 13:00
	Extracted: 10/27/1999 09:00
Sampled: 10/22/1999 10:15	QC-Batch: 1999/10/27-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	10/28/1999 18:32	
<i>Surrogate(s)</i> o-Terphenyl	89.7	60-130	%	1.00	10/28/1999 18:32	

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

Volatile Hydrocarbons by 8015/8020

<b>MECA</b>	✉ 42 California Avenue Orinda, CA 94563
Attn: Steve Michelson	Phone: (925) 258-9200 Fax: (925) 258-9867
Project #:	Project:

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
C1-4'	Soil	10/22/1999 10:15	1
C2-3'	Soil	10/22/1999 10:20	2
CP-1-4'	Soil	10/22/1999 10:30	3

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

To: **MECA**  
Attn: Steve Michelson

Test Method: 8015m  
Prep Method: 3550/8015M

**Batch QC Report**

Diesel

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 1999/10/27-02.10	
LCS: 1999/10/27-02.10-002	Extracted: 10/17/1999 09:00	Analyzed: 10/27/1999 22:12			
LCSD: 1999/10/27-02.10-003	Extracted: 10/27/1999 09:00	Analyzed: 10/27/1999 22:56			

Compound	Conc. [ mg/Kg ]		Exp. Conc. [ mg/Kg ]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	29.3	32.5	41.7	41.7	70.3	77.9	10.3	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	20.8	20.3	20.0	20.0	104.0	101.5		60-130			

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

To: **MECA**  
Attn.: Steve MichelsonTest Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: C2-3	Lab Sample ID: 1999-10-0395-002
Project:	Received: 10/22/1999 13:00
	Extracted: 10/29/1999 19:48
Sampled: 10/22/1999 10:20	QC-Batch: 1999/10/29-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	10/29/1999 19:48	
Toluene	ND	0.0050	mg/Kg	1.00	10/29/1999 19:48	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/29/1999 19:48	
Xylene(s)	ND	0.0050	mg/Kg	1.00	10/29/1999 19:48	
MTBE	ND	0.0050	mg/Kg	1.00	10/29/1999 19:48	
<i>Surrogate(s)</i> Trifluorotoluene	48.4	53-125	%	.00	10/29/1999 19:48	sl

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

To: **MECA**  
Attn.: Steve MichelsonTest Method: 8020  
Prep Method: 5030

Volatile Hydrocarbons by 8015/8020

Sample ID: C1-4	Lab Sample ID: 1999-10-0395-001
Project:	Received: 10/22/1999 13:00
	Extracted: 10/29/1999 10:57
Sampled: 10/22/1999 10:15	QC-Batch: 1999/10/29-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	10/29/1999 10:57	
Toluene	ND	0.0050	mg/Kg	1.00	10/29/1999 10:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/29/1999 10:57	
Xylene(s)	ND	0.0050	mg/Kg	1.00	10/29/1999 10:57	
MTBE	ND	0.0050	mg/Kg	1.00	10/29/1999 10:57	
<i>Surrogate(s)</i> Trifluorotoluene	33.4	53-125	%	.00	10/29/1999 10:57	sl

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

To: **MECA**  
Attn.: Steve MichelsonTest Method: 8020  
Prep Method: 5030**Batch QC Report**  
Volatile Hydrocarbons by 8015/8020

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 1999/10/29-01.01</b>
MB: 1999/10/29-01.01-001		Date Extracted: 10/29/1999 07:08

Compound	Result	Rep. Limit	Units	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	10/29/1999 07:08	
Toluene	ND	0.0050	mg/Kg	10/29/1999 07:08	
Ethyl benzene	ND	0.0050	mg/Kg	10/29/1999 07:08	
Xylene(s)	ND	0.0050	mg/Kg	10/29/1999 07:08	
MTBE	ND	0.0050	mg/Kg	10/29/1999 07:08	
<b>Surrogate(s)</b> Trifluorotoluene	78.0	53-125	%	10/29/1999 07:08	

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 1999-10-0395

To: **MECA**  
Attn.: Steve MichelsonTest Method: 8020  
Prep Method: 5030

## Volatile Hydrocarbons by 8015/8020

Sample ID: CP-1-4	Lab Sample ID: 1999-10-0395-003
Project:	Received: 10/22/1999 13:00
	Extracted: 10/29/1999 14:25
Sampled: 10/22/1999 10:30	QC-Batch: 1999/10/29-01.01
Matrix: Soil	

Compound	Result	Rep. Limit	Units	Dilution	Analyzed	Flag
Benzene	ND	0.0050	mg/Kg	1.00	10/29/1999 14:25	
Toluene	ND	0.0050	mg/Kg	1.00	10/29/1999 14:25	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/29/1999 14:25	
Xylene(s)	ND	0.0050	mg/Kg	1.00	10/29/1999 14:25	
MTBE	ND	0.0050	mg/Kg	1.00	10/29/1999 14:25	
<b>Surrogate(s)</b> Trifluorotoluene	57.4	53-125	%	.00	10/29/1999 14:25	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0395

To: MECA  
Attn: Steve Michelson

Test Method: 8020  
Prep Method: 5030

## Batch QC Report

Volatile Hydrocarbons by 8015/8020

<b>Matrix Spike (MS / MSD)</b>	<b>Soil</b>	<b>QC Batch # 1999/10/29-01.01</b>
Sample ID: C1-4		Lab Sample ID: 1999-10-0395-001
MS: 1999/10/29-01.01-004	Extracted: 10/29/1999 12:20	Analyzed: 10/29/1999 12:20 Dilution: 1.0
MSD: 1999/10/29-01.01-005	Extracted: 10/29/1999 11:52	Analyzed: 10/29/1999 11:52 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Benzene	0.0334	0.0355	ND	0.1000	0.0971	33.4	36.6	9.1	65-135	35	mso	mso
Toluene	0.0332	0.0353	ND	0.1000	0.0971	33.2	36.4	9.2	65-135	35	mso	mso
Ethyl benzene	0.0308	0.0329	ND	0.1000	0.0971	30.8	33.9	9.6	65-135	35	mso	mso
Xylene(s)	0.0917	0.0970	ND	0.300	0.291	30.6	33.3	8.5	65-135	35	mso	mso
<b>Surrogate(s)</b>												
Trifluorotoluene	196	228		500	500	39.2	45.6		53-125		sl	sl

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0395

To: MECA  
Attn: Steve Michelson

Test Method: 8020  
Prep Method: 5030

## Batch QC Report

Volatile Hydrocarbons by 8015/8020

<b>Laboratory Control Spike (LCS/LCSD)</b>	<b>Soil</b>	<b>QC Batch # 1999/10/29-01.01</b>
LCS: 1999/10/29-01.01-002	Extracted: 10/29/1999 05:19	Analyzed: 10/29/1999 05:19
LCSD: 1999/10/29-01.01-003	Extracted: 10/29/1999 05:46	Analyzed: 10/29/1999 05:46

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	0.103	0.109	0.1000	0.1000	103.0	109.0	5.7	77-123	35		
Toluene	0.107	0.103	0.1000	0.1000	107.0	103.0	3.8	78-122	35		
Ethyl benzene	0.106	0.0988	0.1000	0.1000	106.0	98.8	7.0	70-130	35		
Xylene(s)	0.315	0.295	0.300	0.300	105.0	98.3	8.6	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	501	511	500	500	100.2	102.2		53-125			

# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

99-10-0395  
 1220 Quarry Lane • Pleasanton, California 94566-4756  
 (925) 484-1919 • Fax (925) 484-1096

Reference #: 48671

## Chain of Custody

DATE 10/22/99 PAGE 1 OF 1

NOJ MGR				ANALYSIS REPORT															NUMBER OF CONTAINERS													
COMPANY				TPH (EPA 8015, 8020)	PURGEABLE AROMATICS	BTEX (EPA 8020)	TPH-Diesel (EPA 8015/801)	TEPH (EPA 8013M)	PURGEABLE HALO-CARBONS	SVOCs (EPA 8010)	VOLATILE ORGANICS	IVOCs (EPA 8280)	SEMI-VOLATILES	TOTAL OIL AND GREASE	SEM 5520 B+F, E+F)	PESTICIDES (EPA 8080)	PCE & TCE (EPA 8060)	PNA % by		Spec. Cond.	TSS	TDS	LUFT METALS:	CEL. Cr., Pb., Ni., Zn	CAM 17 METALS	EPA 8010/7420/7471)	TOTAL LEAD	W.E.T. (STLC)	TCLP	Equivalent Chromium	HR (24 hr hold time for LD)	
1-4'	10/22/99	1015	Soil No	X			X																									1
2-3'		1020																														1
P-1-4'		1030																														1

PROJECT INFORMATION		SAMPLE RECEIPT		RELINQUISHED BY		RELINQUISHED BY		RELINQUISHED BY	
PROJECT NAME	TOTAL NO OF CONTAINERS	SIGNATURE	DATE	SIGNATURE	DATE	SIGNATURE	DATE	SIGNATURE	DATE
PROJECT NUMBER	HEAD SPACE	Ben Wells 1300	10/22/99						
I, #	TEMPERATURE 5.8°C	Ben Wells 10/22/99							
CONFIRMS TO RECORD	STANDARD 5-DAY	ERB/MECA							
24	48	72	OTHER	RECEIVED BY		RECEIVED BY		RECEIVED BY (LABORATORY)	
SPECIAL INSTRUCTIONS/COMMENTS:				SIGNATURE	DATE	SIGNATURE	DATE	SIGNATURE	DATE
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> Electronic Report				PRINTED NAME	DATE	PRINTED NAME	DATE	Debbie Harrington	1300
				COMPANY	COMPANY	COMPANY	DATE	D. Harrington	10/22/99
								Chromalab	LAB

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0395

To: MECA  
 Attn: Steve Michelson

Test Method: 8020  
 Prep Method: 5030

### Legend & Notes

Volatile Hydrocarbons by 8015/8020

### QC Compound Flags

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

### Analyte Flags

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

**APPENDIX B**

**CERTIFICATE OF SOIL DISPOSAL**

# ALTAMONT LANDFILL WASTE ACCEPTANCE FORM

CUSTOMER: ENVIRONMENTAL RESOURCE GROUP.

CUSTOMER # 1175

GENERATOR: CHARTER PROPERTIES

PROFILE # 54831800

LIST WASTE SOURCE: (County/City Location) PLEASANTON

MATERIAL DESCRIPTION: CLASS II COVER

FLAG COLOR: YELLOW

The information listed above is necessary for acceptance of special waste at the Altamont Landfill.

- A copy of this form must be presented with each load to the Altamont Landfill scale house collector.
- This form is for Altamont Landfill waste tracking use and is not intended to serve as a customer shipping document.
- Drivers will receive a weight ticket for confirmation of disposal.
- An alternative shipping record may be used in lieu of this form if it includes the above information.
- If shipping form is a multiple part form, please notify landfill of which copies to return with the driver, if not otherwise noted on the form.

## FOR ALTAMONT LANDFILL COLLECTOR USE ONLY:

FILL IN TAG# ASSOCIATED WITH LOAD (USE OUTBOUND# FOR UNTARED LOADS)

SCALE HOUSE TAG # - \_\_\_\_\_

DATE \_\_\_\_\_

TRUCK # \_\_\_\_\_



YELLOW CLASS 2 COVER  
QUAN OF JOB: 0.00 T QUAL:

ALTAMONT LANDFILL & RRF  
18840 ALTAMONT PASS ROAD  
IVERMORE, CA 94550-9745

DATE: 10/28/1999 TICK: 156002 - 1  
TIME IN: 12:19 I/O: )  
TIME OUT: 12:19  
STAGE TICKET: 160154

CARRIER: CRO CROSS TRUCKING  
TRUCK#: 2005 END DUMP TRAILER#: 2005  
CUSTOMER: CRO CROSS CUSTOMERS ALTAMONT LANDFILL  
GENERATOR: CHARTERED SERVICES  
ORIGIN: PLASTER BEACH, CA PROFILE #4831800

MANIFEST WASTE DESCRIPTION QUAN. PER  
C2C CLASS II COVER 501 27.76 T

GROSS: 86940 POUNDS CUSTOMER: WashOut: 0  
TARE: 31420 POUNDS OFFLOAD: 0  
NET: 55520 LBS TONS: 27.76 WEIGHMASTER: Services: 0  
Services: 0

WEIGH IN CLERK: ROBELIO, ROJAS WEIGH OUT CLERK: ROBELIO, ROJAS

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED,  
MEASURED, OR COUNTED BY A WEIGHMASTER WHOSE SIGNATURE IS ON THIS  
CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY  
CHAPTER 7 COMMENCING WITH SECTION 127001 OF DIVISION 5 OF THE CALIFORNIA  
BUSINESS AND PROFESSIONS CODE ADMINISTERED BY THE DIVISION OF MEASUREMENT  
STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.