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# TANK REMOVAL REPORT

**THE ESTATE OF JOHN B. HENRY**

1726 Park Street  
Alameda, California

Project No. 489101

January 2, 1991

prepared for

**Melinda Henry-Dare c/o  
John B. Henry Estate  
3312 Central Avenue  
Alameda, California 94501**

prepared by

**TMC Environmental Inc.  
13908 San Pablo Avenue, Suite 101  
San Pablo, California 94806**

**TABLE OF CONTENTS**

for  
**TANK REMOVAL REPORT**  
The Estate of John B. Henry  
Alameda, California

<u>Section</u>	<u>Description</u>	<u>Page</u>
1.0	INTRODUCTION .....	1
2.0	PURPOSE AND SCOPE OF WORK .....	1
3.0	TANK REMOVAL .....	1
4.0	SOIL SAMPLING BENEATH UNDERGROUND TANKS .....	2
5.0	RESULTS OF CHEMICAL ANALYSIS OF TANK SAMPLES .....	2
6.0	BACK FILL OF THE GASOLINE TANK EXCAVATION .....	3
7.0	LIMITATIONS .....	3

Attachments

1. ANALYTICAL RESULTS
2. MANIFEST
3. PERMIT

Plates

1. SITE MAPS

# TANK REMOVAL REPORT

The Estate of John B. Henry

Alameda, California

## 1.0 INTRODUCTION

TMC (TMC Environmental, Inc.) removed one underground, waste oil tank on the property located at 1726 Park Street in Alameda, California, called the site in this report. The tasks completed during the tank removal and soil excavation agree with the guidelines of the local lead agencies, the Alameda County Department of Environmental Health and Alameda Fire Department.

## 2.0 PURPOSE AND SCOPE OF WORK

The purpose of the work was to remove one 500-gallon, underground, waste oil tank.

The scope of the work included: 1) permitting of the tank removal; 2) removal of one 500 gallon gasoline tanks; 3) sampling the soil below the former underground tank; 4) providing for the laboratory analyses of the tank soil samples; 5) backfilling, compacting and resurfacing; and 6) this report explaining the methods and findings of the tank removal.

Documentation and sampling services were provided by TMC. The tank removal contractor was Bay Area Tank Removal of San Francisco, California.

## 3.0 TANK REMOVAL

The subject tank is one 500 gallon steel, waste oil tank. (see plate 1, site map) Prior to the tank removal Waste Oil Recovery Services removed approximately 180 gallons of water and waste oils from the tank. The hazardous waste manifest is attached to this report. On December 5, 1991, the tank and related lines were removed by Bay Area Tank Removal Company personnel. No corrosion holes were observed in the gasoline tank or lines nor was there evidence of soil contamination in the surrounding soils. The tank removal was witnessed by the Alameda Fire Department inspector. The Alameda County Health Department inspector, Mr. Miller was not present at the

site. However, Mr. Miller gave permission to remove the tank without his presence and instructed the Fire Inspector on the locations for soil sampling. When inerted, the tanks were transported by Erickson, Inc. to their transfer, storage and disposal facility in Richmond, California. The hazardous waste manifest and permits are attached to this report.

#### 4.0 SOIL SAMPLING BENEATH UNDERGROUND TANKS

On December 5, 1991, TMC personnel recovered two soil samples as ordered by Mr. Miller (designated SS-1 and SS-2) from the gasoline tank excavation. The soil samples were taken at a depth of 6.5 feet at the bottom and south of the tank. No water was observed in the tank pit. No obvious petroleum contamination was noticed in the excavation. The soil sampling was witnessed by the Fire Inspector. The soil samples were submitted to a State certified Laboratory, Curtis & Tompkins, Ltd. of Berkeley, California for chemical analysis. Samples SS-1 and SS-2 were analyzed for total petroleum hydrocarbons (TPH) as gasoline and diesel, Metals Cd, Cr, Pb, and zn, method 8010, method 8270 and total oil and grease.

#### 5.0 RESULTS OF CHEMICAL ANALYSIS OF TANK SAMPLES

The laboratory analysis of the soil samples recovered from below the removed underground tanks reported the following results:

Soil sample SS-1 contained ND mg/kg TPH as gasoline and diesel, ND ug/kg Volatile hydrocarbons Method 8010, ND mg/kg Oil and Grease, ND ug/kg EPA method 8270, ND mg/kg cadmium, 44 mg/kg chromium, ND mg/kg lead, and 48.5 mg/kg zinc.

Soil sample SS-2 contained ND mg/kg TPH as gasoline and diesel, ND ug/kg volatile hydrocarbons method 8010, ND mg/kg Oil and Grease, ND ug/kg EPA method 8270, ND mg/kg cadmium, 36.6 mg/kg chromium, ND mg/kg lead, and 147 mg/kg zinc.

The certified analytical reports and chain of custody forms are attached to this report.

## **6.0 BACKFILL AND RESURFACE OF THE TANK EXCAVATION**

Upon receipt of the analytical results, Bay Area Tank Removal backfilled the excavation with imported clean sand fill, compacted and resurfaced the excavation.

## **7.0 LIMITATIONS**

The conclusions and professional opinions presented in this report agree with generally accepted practice as outlined in the guidelines of the California Regional Water Quality Control Board for addressing fuel leaks from underground tanks. The chemical analysis results are based on limited data collected at the sampling location only and such conditions may not necessarily apply to the general site as a whole, therefore TMC Environmental Inc. cannot have complete knowledge of the underlying conditions. The information supplied in this report is provided to the client in order that the client may make a more informed decision as to site conditions. The professional opinion and judgement expressed herein is subject to revisions in light of new information. No guarantees or warranties are expressed or implied that the property is or is not free of environmental impairment.



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 12/05/91  
DATE REQUESTED: 12/19/91  
DATE REPORTED: 12/23/91

LABORATORY NUMBER: 106094

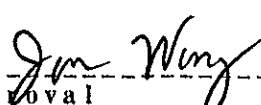
CLIENT: TMC ENVIRONMENTAL

PROJECT ID: 489101

LOCATION: ESTATE OF JOHN B. HENRY

RESULTS: SEE ATTACHED

  
-----  
QA/QC Approval

  
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Final Approval

Berkeley

Wilmington

Los Angeles

## Q C B a t c h R e p o r t

 Client: TMC Environmental, Inc.  
 Project Name: Henry-Dare  
 Project Number: 489101

 Laboratory Login Number: 106094  
 Report Date: 23 December 91

ANALYSIS: Hydrocarbon Oil &amp; Grease (Gravimetric)

QC Batch Number: 3746

## Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	50	mg/Kg	SMWW 17:5520EF	20-DEC-91

## Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	82%	SMWW 17:5520EF	20-DEC-91
BSD	85%	SMWW 17:5520EF	20-DEC-91

		Control Limits
Average Spike Recovery	84%	80% - 120%
Relative Percent Difference	3.0%	< 20%

Client: TMC Environmental, Inc.

Laboratory Login Number: 106094

Project Name: Henry-Dare

Report Date: 23 December 91

Project Number: 489101

ANALYSIS: Hydrocarbon Oil &amp; Grease (Gravimetric)      METHOD: SMWW 17:5520EF

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
106094-001	SS-1 BOTTOM	Soil	05-DEC-91	05-DEC-91	20-DEC-91	ND	mg/Kg	50	TR	3746
106094-002	SS-2 SOUTH	Soil	05-DEC-91	05-DEC-91	20-DEC-91	ND	mg/Kg	50	TR	3746

ND = Not Detected at or above Reporting Limit (RL).



**VERBAL ADDITIONS / CANCELLATIONS TO ANALYSIS REQUEST SHEET**

 CLIENT: TMC DATE: 12/19/91  
 REQUESTED BY: Mark Mangin TIME: \_\_\_\_\_ am \_\_\_\_\_ pm  
 RECORDED BY: NSW

Current Lab ID (Previous Lab ID)	Client ID	Circle matrix	Specify add or cancel	Analysis	Due date
106094 (105959-1, 2)	SS-1 SS-2	soil water other		SS20EF	12/23
( )		soil water other			
( )		soil water other			
( )		soil water other			
( )		soil water other			
( )		soil water other			
( )		soil water other			
( )		soil water other			

Original in job jacket.

Copies to analytical departments.



TMC ENVIRONMENTAL, INC.  
 13908 San Pablo Avenue, Suite 101  
 San Pablo, California 94806  
 (415) 232-8366 / FAX 232-5133

1054

new logo 1060-14

CHAIN OF CUSTODY RECORD  
 ANALYSIS REQUEST FORM

Project No. 489101 Project Name: Estate of John B. Henry Project Contact: Melinda Henry Davis Page 1 of 1  
 Project Address: 1726 Park Street, Alameda, Ca. Turnaround Time: 5 days  
 Sampler: \_\_\_\_\_ Laboratory Name: \_\_\_\_\_ Lab No: \_\_\_\_\_

LAB ID NO.	DATE	TIME	SOIL	WATER	SAMPLE LABEL	TPH-GAS <del>TPH</del>	TPH-DIESEL <del>TPH</del>	ORGANIC LEAD	Metals Cd, Cr, Pb Zn	8010	8270	REMARKS
												ADDITIONAL ANALYSIS
-1	12-5-91	1330	X		SS-1 Bottom	X	X		X	X	X	
-2	12-5-91	1335	X		SS-2 South	X	X		X	X	X	

Relinquished By: (Signature) <u>Thomas Sheehan</u>	Date: <u>12-5-91</u> Time: <u>1335</u>	Received By: (Signature) _____	Date: _____ Time: _____
Relinquished By: (Signature) _____	Date: _____ Time: _____	Received By: (Signature) _____	Date: _____ Time: _____
Relinquished By: (Signature) _____	Date: _____ Time: _____	Received By: (Signature) <u>Glenn Keane</u>	Date: <u>12/5/91</u> Time: <u>3:25pm</u>



TMC ENVIRONMENTAL, INC.  
 13908 San Pablo Avenue, Suite 101  
 San Pablo, California 94806  
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CHAIN OF CUSTODY RECORD  
 ANALYSIS REQUEST FORM

Project No. 489101 Project Name: Estate of John B. Henry Project Contact: Melinda Henry Dore Page 1 of 1  
 Project Address: 1726 Park Street, Alameda, Ca. Turnaround Time: 5 days  
 Sampler: \_\_\_\_\_ Laboratory Name: \_\_\_\_\_ Lab No: \_\_\_\_\_

LAB ID NO.	DATE	TIME	SOIL	WATER	SAMPLE LABEL	TPH-GAS	TPH-DIESEL	ORGANIC LEAD	Metals Cd, Cr, Pb Zn	8010	8270	REMARKS
												ADDITIONAL ANALYSIS
	12-5-91	1330	X		SS-1 Bottom	X	X		X	X	X	
	12-5-91	1335	X		SS-2 South	X	X		X	X	X	

Relinquished By: (Signature) <u>Thomas Sheehan</u>	Date: <u>12-5-91</u> Time: <u>1335</u>	Received By: (Signature) _____	Date: _____ Time: _____
Relinquished By: (Signature) _____	Date: _____ Time: _____	Received By: (Signature) _____	Date: _____ Time: _____
Relinquished By: (Signature) _____	Date: _____ Time: _____	Received By: (Signature) <u>Christine Keane</u>	Date: <u>12/5/91</u> Time: <u>3:35p</u>



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 12/05/91

DATE REPORTED: 12/17/91

LABORATORY NUMBER: 105959

CLIENT: TMC ENVIRONMENTAL

PROJECT ID: 489101

LOCATION: ESTATE OF JOHN B. HENRY

RESULTS: SEE ATTACHED

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Reviewed By

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Reviewed By

LABORATORY NUMBER: 105959-1  
 CLIENT: TMC ENVIRONMENTAL  
 PROJECT ID: 489101  
 LOCATION: ESTATE OF JOHN B. HENRY  
 SAMPLE ID: SS-1 BOTTOM

DATE RECEIVED: 12/05/91  
 DATE ANALYZED: 12/10/91  
 DATE REPORTED: 12/17/91

EPA 8010: Volatile Halocarbons in Soil & Wastes  
 Extraction Method: EPA 5030 - Purge & Trap

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethylene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Dibromochloromethane	ND	5.0
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5.0
Tetrachloroethylene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Chlorobenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

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Surrogate Recovery, %

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113

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LABORATORY NUMBER: 105959-2  
 CLIENT: TMC ENVIRONMENTAL  
 PROJECT ID: 489101  
 LOCATION: ESTATE OF JOHN B. HENRY  
 SAMPLE ID: SS-2 SOUTH

DATE RECEIVED: 12/05/91  
 DATE ANALYZED: 12/10/91  
 DATE REPORTED: 12/17/91

EPA 8010: Volatile Halocarbons in Soil & Wastes  
 Extraction Method: EPA 5030 - Purge & Trap

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethylene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Dibromochloromethane	ND	5.0
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5.0
Tetrachloroethylene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Chlorobenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

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Surrogate Recovery, %

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108

LABORATORY NUMBER: 105959-METHOD BLANK  
 CLIENT: TMC ENVIRONMENTAL  
 PROJECT ID: 489101  
 LOCATION: ESTATE OF JOHN B. HENRY

DATE ANALYZED: 12/10/91  
 DATE REPORTED: 12/17/91

EPA 8010: Volatile Halocarbons in Soil & Wastes  
 Extraction Method: EPA 5030 - Purge & Trap

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethylene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Dibromochloromethane	ND	5.0
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5.0
Tetrachloroethylene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Chlorobenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

Surrogate Recovery, %

107

## MS/MSD SUMMARY SHEET FOR EPA 8010/8020

Operator:	AV	Spike file:	344W/X006
Analysis date:	12/10/91	Spike dup file:	344W/X006
Sample type:	SOIL	Instrument:	GC12
SAMPLE ID:	105959-2	Sequence Name:	DEC 10

## 8010 MS/MSD DATA (spiked at 20 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	19.98	100 %	OK	59 - 172
Trichloroethene	22.43	112 %	OK	62 - 137
Chlorobenzene	22.27	111 %	OK	60 - 133
SPIKE DUP COMPOUNDS				
1,1-Dichloroethene	19.22	96 %	OK	59 - 172
Trichloroethene	19.37	97 %	OK	62 - 137
Chlorobenzene	19.14	96 %	OK	60 - 133
SURROGATES				
BROMOBENZENE (MS)	109.00	109 %	OK	70 - 120
BROMOBENZENE (MSD)	107.00	107 %	OK	70 - 120

## 8020 MS/MSD DATA (spiked at 20 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
Benzene	20.73	104 %	OK	66 - 142
Toluene	20.78	104 %	OK	59 - 139
Chlorobenzene	20.50	103 %	OK	60 - 133
SPIKE DUP COMPOUNDS				
Benzene	20.00	100 %	OK	66 - 142
Toluene	19.57	98 %	OK	59 - 139
Chlorobenzene	19.53	98 %	OK	60 - 133
SURROGATES				
BROMOBENZENE (MS)	99.00	99 %	OK	70 - 120
BROMOBENZENE (MSD)	101.00	101 %	OK	70 - 120

## RPD DATA

8010 COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	19.98	19.22	4 %	OK	< 22
Trichloroethene	22.43	19.37	15 %	OK	< 23
Chlorobenzene	22.27	19.14	15 %	OK	< 21
8020 COMPOUNDS					
Benzene	20.73	20.00	4 %	OK	< 21
Toluene	20.78	19.57	6 %	OK	< 21
Chlorobenzene	20.50	19.53	5 %	OK	< 21



LABORATORY NUMBER: 105959  
 CLIENT: TMC ENVIRONMENTAL  
 PROJECT ID: 489101  
 LOCATION: ESTATE OF JOHN B. HENRY

DATE RECEIVED: 12/05/91  
 DATE EXTRACTED: 12/11/91  
 DATE ANALYZED: 12/12/91  
 DATE REPORTED: 12/17/91

Extractable Petroleum Hydrocarbons in Soils & Wastes  
 California DOHS Method  
 LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg /Kg)	DIESEL RANGE (mg /Kg)	REPORTING LIMIT* (mg /Kg)
105959-1	SS-1 BOTTOM	ND	ND	1.0
105959-2	SS-2 SOUTH	ND	ND	1.0

ND = Not Detected at or above reporting limit.

\*Reporting limit applies to all analytes.

QA/QC SUMMARY

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RPD, %                                     7
RECOVERY, %                               118
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LABORATORY NUMBER: 105959  
 CLIENT: TMC ENVIRONMENTAL  
 PROJECT #: 489101  
 LOCATION: ESTATE OF JOHN B. HENRY

DATE RECEIVED: 12/05/91  
 DATE ANALYZED: 12/13/91  
 DATE REPORTED: 12/17/91

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes  
 California DOHS Method  
 LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg /Kg)	REPORTING LIMIT (mg /Kg)
105959-1	SS-1 BOTTOM	ND	1.0
105959-2	SS-2 SOUTH	ND	1.0

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	5
RECOVERY, %	109

LABORATORY NUMBER: 105959-1  
 CLIENT: TMC ENVIRONMENTAL  
 PROJECT ID: 489101  
 LOCATION: ESTATE OF JOHN B. HENRY  
 SAMPLE ID: SS-1 BOTTOM

DATE RECEIVED: 12/05/91  
 DATE EXTRACTED: 12/09/91  
 DATE ANALYZED: 12/13/91  
 DATE REPORTED: 12/17/91

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes  
 Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/kg	REPORTING LIMIT ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl Alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1,650
2,4-Dimethylphenol	ND	330
Benzoic Acid	ND	1,650
2,4-Dichlorophenol	ND	1,650
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1,650
2,4-Dinitrophenol	ND	1,650
4-Nitrophenol	ND	1,650
4,6-Dinitro-2-methylphenol	ND	1,650
Pentachlorophenol	ND	1,650
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
Bis(2-chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
Bis(2-chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1,650

LABORATORY NUMBER: 105959-1  
 SAMPLE ID: SS-1 BOTTOM

EPA 8270

## BASE/NEUTRAL COMPOUNDS

	RESULT ug/kg	REPORTING LIMIT ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1,650
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1,650
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1,650
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

ND = Not detected at or above reporting limit.

## QA/QC SUMMARY: % SURROGATE RECOVERIES

2-Fluorophenol	66	Nitrobenzene-d5	55
Phenol-d6	67	2-Fluorobiphenyl	64
2,4,6-Tribromophenol	56	Terphenyl-d14	56

LABORATORY NUMBER: 105959-2  
 CLIENT: TMC ENVIRONMENTAL  
 PROJECT ID: 489101  
 LOCATION: ESTATE OF JOHN B. HENRY  
 SAMPLE ID: SS-2 SOUTH

DATE RECEIVED: 12/05/91  
 DATE EXTRACTED: 12/09/91  
 DATE ANALYZED: 12/13/91  
 DATE REPORTED: 12/17/91

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes  
 Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/kg	REPORTING LIMIT ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
Benzyl Alcohol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	1,650
2,4-Dimethylphenol	ND	330
Benzoic Acid	ND	1,650
2,4-Dichlorophenol	ND	1,650
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1,650
2,4-Dinitrophenol	ND	1,650
4-Nitrophenol	ND	1,650
4,6-Dinitro-2-methylphenol	ND	1,650
Pentachlorophenol	ND	1,650
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	330
Aniline	ND	330
Bis(2-chloroethyl)ether	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
Bis(2-chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1,650

LABORATORY NUMBER: 105959-2  
 SAMPLE ID: SS-2 SOUTH

EPA 8270

## BASE/NEUTRAL COMPOUNDS

	RESULT ug/kg	REPORTING LIMIT ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	1,650
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1,650
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Benzidine	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	1,650
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

ND = Not detected at or above reporting limit.

## QA/QC SUMMARY: % SURROGATE RECOVERIES

2-Fluorophenol	58	Nitrobenzene-d5	43
Phenol-d6	61	2-Fluorobiphenyl	52
2,4,6-Tribromophenol	53	Terphenyl-d14	47

LABORATORY NUMBER: 105959-1  
 CLIENT: TMC ENVIRONMENTAL  
 PROJECT ID: 489101  
 LOCATION: ESTATE OF JOHN B. HENRY  
 SAMPLE ID: SS-1 BOTTOM

DATE RECEIVED: 12/05/91  
 DATE ANALYZED: 12/11/91  
 DATE REPORTED: 12/17/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CADMIUM	ND	mg /Kg	0.25	EPA 6010
CHROMIUM	44.7	mg /Kg	0.50	EPA 6010
LEAD	ND	mg /Kg	3.0	EPA 7420
ZINC	48.5	mg /Kg	1.0	EPA 6010

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

	RPD, %	Recovery, %
CADMIUM	2	81
CHROMIUM	3	98
LEAD	2	85
ZINC	<1	92

LABORATORY NUMBER: 105959-2  
 CLIENT: TMC ENVIRONMENTAL  
 PROJECT ID: 489101  
 LOCATION: ESTATE OF JOHN B. HENRY  
 SAMPLE ID: SS-2 SOUTH

DATE RECEIVED: 12/05/91  
 DATE ANALYZED: 12/11/91  
 DATE REPORTED: 12/17/91

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
CADMIUM	ND	mg / Kg	0.25	EPA 6010
CHROMIUM	36.6	mg / Kg	0.50	EPA 6010
LEAD	ND	mg / Kg	3.0	EPA 7420
ZINC	147	mg / Kg	1.0	EPA 6010

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

	RPD, %	Recovery, %
CADMIUM	2	81
CHROMIUM	3	98
LEAD	2	85
ZINC	<1	92





TMC ENVIRONMENTAL, INC.  
 13908 San Pablo Avenue, Suite 101  
 San Pablo, California 94806  
 (415) 232-8366 / FAX 232-5133

10345-1

CHAIN OF CUSTODY RECORD  
 ANALYSIS REQUEST FORM

Project No. 489101 Project Name: Estate of John B. Henry Project Contact: Melinda Henry Duro Page 1 of 1  
 Project Address: 1726 Park Street, Alameda, Ca. Turnaround Time: 5 days  
 Sampler: \_\_\_\_\_ Laboratory Name: \_\_\_\_\_ Lab No: \_\_\_\_\_

LAB ID NO.	DATE	TIME	SOIL	WATER	SAMPLE LABEL	TPH-GAS <del>PH</del>	TPH-DIESEL <del>PH</del>	ORGANIC LEAD	Metals Cd, Cr, Pb Zn	8010	8270	REMARKS
												ADDITIONAL ANALYSIS
-1	12-5-91	1330	X		SS-1 Bottom	X	X		X	X	X	
-2	12-5-91	1335	X		SS-2 South	X	X		X	X	X	

Relinquished By: (Signature) <u>Thomas Sheehan</u>	Date: <u>12-5-91</u>	Received By: (Signature) _____	Date: _____
Relinquished By: (Signature) _____	Time: <u>1335</u>	Received By: (Signature) _____	Time: _____
Relinquished By: (Signature) _____	Date: _____	Received By: (Signature) _____	Date: _____
Relinquished By: (Signature) _____	Time: _____	Received By: (Signature) <u>Disone Kane</u>	Time: _____
Relinquished By: (Signature) _____	Date: _____	Received By: (Signature) _____	Date: <u>12/5/91</u>
Relinquished By: (Signature) _____	Time: _____	Received By: (Signature) _____	Time: <u>3:25pm</u>

THIS CARD MUST BE POSTED ON THE PREMISES AND  
PLACED SO AS TO BE SEEN FROM THE STREET

**CITY OF ALAMEDA, Building Inspection Office**

DATE 12-3-91 VALUATIONS \$ 4000 BLDG. PERMIT # \_\_\_\_\_ PLMG./MECH PERMIT # 91-6970

FORMS \_\_\_\_\_  
REQUIRED BEFORE POURING CONCRETE

VAULT TOILET \_\_\_\_\_

PRELIMINARY GROUND PLUMBING \_\_\_\_\_

FINAL GROUND PLUMBING \_\_\_\_\_

ROUGH ELECTRIC \_\_\_\_\_

ROUGH PLUMBING \_\_\_\_\_

ROUGH HEATING & VENTILATING \_\_\_\_\_

SUB FLOOR \_\_\_\_\_

FRAME \_\_\_\_\_

INSULATION \_\_\_\_\_

JOB Tank removal

ADDRESS 1726 Park St.

OWNER Melinda Henry-Dene

CONTRACTOR Bay Area Tank Removal

ROBERT L. WARNICK BY John Perry  
BUILDING OFFICIAL

INTERIOR LATH \_\_\_\_\_  
REQUIRED BEFORE PLASTERING OR TAPING

EXTERIOR LATH \_\_\_\_\_  
REQUIRED BEFORE STUCCO

DESIGN REVIEW \_\_\_\_\_

INSULATION CERTIFICATE \_\_\_\_\_

TRACT CONDITIONS \_\_\_\_\_

P.U.D. CONDITIONS \_\_\_\_\_

FINAL ELECTRIC \_\_\_\_\_

FINAL - FIRE DEPT. \_\_\_\_\_

FINAL PLUMBING 12-5-91-DR

FINAL HEATING & VENTILATING \_\_\_\_\_

FINAL BUILDING \_\_\_\_\_

ABOVE APPROVALS REQUIRED BEFORE INTERIOR LATHING OR COVERING

DO NOT CALL FOR FINAL INSPECTION UNTIL OTHER ITEMS HAVE BEEN ISSUED

DO NOT OCCUPY STRUCTURE UNTIL CERTIFICATION OF OCCUPANCY HAS BEEN ISSUED.  
FOR CERTIFICATE OF OCCUPANCY TO BE ISSUED, A COPY OF HARD CARD WITH ALL FINALS  
NEEDS TO BE FILED WITH THE CENTRAL PERMIT OFFICE.

REMARKS \_\_\_\_\_

NOTE: ALL INSPECTION REQUESTS ARE REQUIRED 24 HOURS IN ADVANCE.  
CALL BETWEEN 8:30 AM - 10:00 AM 748-4564 (BUILDING) or 748-4563 (PLUMBING/MECHANICAL).

90386806  
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550  
 GENERATOR  
 TRANSPORTER  
 FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>90386806</i>		Manifest Document No. <i>90386806</i>		2. Page 1 1 of 1		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address <i>EST OF JOHN B HEARY 1726 PARK ST</i>		A. State Manifest Document Number <b>90386806</b>		B. State Generator's ID <i>BE/EX</i>			
4. Generator's Phone <i>(916) 333-1144</i>		6. US EPA ID Number		C. State Transporter's ID <i>70341</i>		D. Transporter's Phone <i>703-412-0711</i>			
5. Transporter 1 Company Name <i>WASTE RECOVERY</i>		7. Transporter 2 Company Name		E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address <i>WASTE RECOVERY</i>		10. US EPA ID Number		G. State Facility's ID		H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity		14. Waste No.	
				No.		Type		Wt/Vol	
a. <i>HAZARDOUS OIL A.C.S. (WASTE OIL)</i>								EPA/Other	
b.								State	
c.								EPA/Other	
d.								State	
								EPA/Other	
J. Additional Descriptions for Materials Listed Above <i>HAZARDOUS WASTE OIL</i>						K. Handling Codes for Wastes Listed Above			
						a. <i>R</i>		b.	
15. Special Handling Instructions and Additional Information <i>EST. JOHN B HEARY (916) 333-1144</i>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name <i>JOHN HEARY</i>				Signature <i>[Signature]</i>				Month Day Year <i>1/20/91</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name <i>[Name]</i>				Signature <i>[Signature]</i>				Month Day Year <i>[Date]</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature				Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name				Signature				Month Day Year	

Please print or type. Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		ESTATE OF JOHN B HENRY 1726 PARK ST ALAMEDA, CA 94501		A. State Manifest Document Number		90796698
4. Generator's Phone ( )		523-1144		B. State Generator's ID		
5. Transporter 1 Company Name		ERICKSON, INC		C. State Transporter's ID		
6. US EPA ID Number		171046392		D. Transporter's Phone		406712
7. Transporter 2 Company Name				E. State Transporter's ID		110 235 1393
8. US EPA ID Number				F. Transporter's Phone		
9. Designated Facility Name and Site Address		Erickson, Inc. 255 Parr Blvd. Richmond, Ca. 94801		G. State Facility's ID		
10. US EPA ID Number		CAD009466		H. Facility's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
a. Waste Empty Storage Tank		No.	Type			
b. NON-RCRA Hazardous Waste Solid.		11	ILW	265	P	State: NONE EPA/Other:
c.						State: EPA/Other:
d.						State: EPA/Other:
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above			
Qty. <sup>NR</sup> 1 Empty Storage Tank (s) #7714. Tank (s) have been inerted with 15 lbs. Dry Ice per 1000 Gal. Capacity.			a.		b.	
			c.		d.	
16. Special Handling Instructions and Additional Information						
Keep away from sources of ignition. Always wear hardhats when working around U.S.T.'s 24 Hr. Contact Name <u>LEE TRACY</u> & Phone <u>415 863 6375</u>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name		Signature		Month Day Year		
<u>LEE TRACY</u>				1/26/87		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
<u>Robert A. Brown</u>				1/26/87		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name		Signature		Month Day Year		

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

90796698

CITY OF ALAMEDA  
 CENTRAL PERMITS OFFICE  
 2263 Santa Clara Ave. Room 204  
 Alameda, CA 94501 748-4530

Permit No: P91-6970  
 Status: APPROVED

Page 1 of 1  
 12/03/91 15:06

JOB ADDRESS : 1726 PARK ST  
 PERMIT TYPE : PLUMBING PERMIT  
 Parcel number : 070 -0192-001-00

Applied : 11/22/91  
 App/Issue : 12/03/91  
 FINAL :  
 To Expire :  
 Class code : 088  
 Valuation: 4,000

Owner : MELINDA HENRY-DARE  
 BELL ROSENBERG ATTY  
 P O BOX 70220 STA D  
 Applicant : OAKLAND CA 94612MOVAL

HOURS OF CONSTRUCTION  
 MONDAY - FRIDAY 7 A.M. TO 7 P.M.  
 SATURDAY & SUNDAY 8 A.M. TO 5 P.M.

863-6375  
 Project Title : REMOVE STORAGE TANK  
 Project Desc. : REMOVE STORAGE TANK

*Thomas Shywitz*  
 Signature

CONTRACTOR : BAY AREA TANK REMOVAL  
 205 13TH. ST., SUITE 3033  
 SAN FRANCISCO, CA. 94124

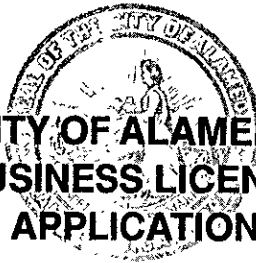
Lic. C 616521 863-6375

Fee description	Units	Fee/Unit	Ext fee	Data
Storage Tanks.....>	1	20.00	20.00	
Fixture Fee			20.00	
Filing Fee			10.00	
S.M.I.P Fee			.50	
Assembly Bill 941			5.00	
Micro-fiche Fee.....>	33.00		33.00	
*** Fees Required ***				*** Fees Collected & Credits ***

Account No.	Receipt No.	Date	Payment
001-300-4220-3360	R001252	12/03/91	20.00
001-300-4240-3745	R001252	12/03/91	10.00
001-220-0000-2239	R001252	12/03/91	.50
001-300-4240-3305	R001252	12/03/91	5.00
001-300-4240-3792	R001252	12/03/91	33.00
Fees: 68.50			
Adjustments: .00			
Total Fees: 68.50	Total Credits: .00		
	Total Payments: 68.50		
	Balance Due: .00		

"NOTICE & AGREEMENT:" THERE IS A 15 DAY APPEAL PERIOD FOR ALL DESIGN REVIEW APPROVALS. I AM REQUESTING THAT THE BUILDING PERMIT BE ISSUED PRIOR TO THE EXPIRATION OF THE APPEAL PERIOD. I UNDERSTAND THAT ANY WORK STARTED BEFORE THE EXPIRATION OF THE APPEAL PERIOD IS DONE AT MY OWN RISK. I AGREE TO MAKE MODIFICATIONS TO THE PROJECT THAT MAY BE REQUIRED AS A RESULT OF THE APPEAL PROCESS.

SIGNATURE \_\_\_\_\_



CITY OF ALAMEDA  
BUSINESS LICENSE  
APPLICATION

FINANCE DEPT.  
ROOM 310  
2263 SANTA CLARA AVE.  
ALAMEDA, CA 94501  
415-748-4561

APPL. NO. **8000**  
NEW   
CHANGE

BUSINESS NAME: TRV Environmental Inc. ACCOUNT # \_\_\_\_\_ LIC. # \_\_\_\_\_

BUSINESS STREET ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_ ZIP: \_\_\_\_\_ BUS. TEL. #: 510-232-886

TYPE OF OWNERSHIP:  SOLE PROPRIETORSHIP  PARTNERSHIP  CORPORATION  
DESCRIPTION OF BUSINESS ACTIVITY: Environmental Consultants

MAILING ADDRESS: \_\_\_\_\_ FED. EMP. ID NO./SS NO. 15-274295  
CONTRACTOR NO. \_\_\_\_\_

PLEASE COMPLETE ALL INFORMATION. IT WILL ASSIST THE POLICE DEPARTMENT IN CONTACTING YOU IN THE EVENT OF EMERGENCY.  
SALES TAX NO. \_\_\_\_\_  
ANNUAL SALES TAX COLLECTION (EST.) \_\_\_\_\_  
ANNUAL GROSS RECEIPTS (EST.) \_\_\_\_\_

BUSINESS OWNER #1: NAME: Tom Edwards  
ADD: STREET 224 E. 14th St.  
CITY Alameda  
ZIP 94501  
TEL. NO. 510-232-886  
DRIVER'S LICENSE # K0305101  
NO. OF EMPLOYEES IN ALAMEDA \_\_\_\_\_  
NO. OF UNITS RENTED OUT \_\_\_\_\_  
NO. OF CABS/MOTORBUS FOR HIRE \_\_\_\_\_

BUSINESS OWNER #2: NAME: \_\_\_\_\_  
ADD: STREET \_\_\_\_\_  
CITY \_\_\_\_\_  
ZIP \_\_\_\_\_  
TEL. NO. \_\_\_\_\_  
DRIVER'S LICENSE # \_\_\_\_\_  
OTHER (COMMERCIAL RENTAL - SQ. FT.) \_\_\_\_\_  
I DECLARE UNDER PENALTY OF PERJURY THAT THE INFORMATION IN THIS APPLICATION IS TRUE AND CORRECT.

MANAGER / OFFICE NAME: \_\_\_\_\_  
ADD: STREET \_\_\_\_\_  
CITY \_\_\_\_\_  
ZIP \_\_\_\_\_  
TEL. NO. \_\_\_\_\_  
DRIVER'S LICENSE # \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_ DATE: 1-2-11

EMERGENCY CONTACT / ALARM COMPANY NAME: \_\_\_\_\_  
ADD: STREET \_\_\_\_\_  
CITY \_\_\_\_\_  
ZIP \_\_\_\_\_  
TEL. NO. \_\_\_\_\_  
FOR OFFICE USE ONLY  
TAX RATE CATEGORY \_\_\_\_\_  
STATE IND. CODE NO. \_\_\_\_\_  
BILLING FREQUENCY: H  
A = ANNUAL  
Q = QUARTERLY  
BUSINESS TYPE \_\_\_\_\_  
AMOUNT PAID \$ 53.4

APPLICANT Tom Edwards

Please print or type. Form designed for use on elite (12-pitch typewriter).

ETMS

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. CA000065140094698 Manifest Document No. 90796698

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
ESTATE OF JOHN B HENRY  
1726 PARK ST  
ALAMEDA, CA 94501

A. State Manifest Document Number  
90796698

4. Generator's Phone  
(510) 523-1144

B. State Generator's ID

5. Transporter 1 Company Name  
ERICKSON INC.

C. State Transporter's ID  
206712

6. US EPA ID Number  
CA00009466392

D. Transporter's Phone  
(510) 235-1393

7. Transporter 2 Company Name

E. State Transporter's ID

8. US EPA ID Number

F. Transporter's Phone

9. Designated Facility Name and Site Address  
Erickson, Inc.  
255 Parr Blvd.  
Richmond, Ca. 94801

G. State Facility's ID  
CA00009466392

H. Facility's Phone  
(510) 235-1393

10. US EPA ID Number  
1040009466392

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  
Waste Empty Storage Tank

12. Containers No. Type  
1 17 LWA

13. Total Quantity  
12100

14. Unit  
P

15. Waste No.  
 State 512  
 EPA/Other

NON-RCRA Hazardous Waste Solid:

b. State NONE  
 EPA/Other

c. State  
 EPA/Other

d. State  
 EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

Qty: 01 Empty Storage Tank (s) # 7214

a. 61

Tank (s) have been inerted with 15 lbs Dry Ice per 1000 Gal. Capacity.

b. c. d.

16. Special Handling Instructions and Additional Information

Keep away from sources of ignition: Always wear hardhats when working around U-S-T's 24 Hr. Contact Name JIM TRACY & Phone 415-863-6275

17. Generator's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name JIM TRACY Signature [Signature] Month Day Year 11/20/91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Robyn E. Prout Signature [Signature] Month Day Year 11/20/91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

18. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 16.

Printed/Typed Name RONALD H. FOSBERG Signature [Signature] Month Day Year 11/20/91

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802, WITHIN CALIFORNIA CALL 1-800-952-7555  
 GENERATOR  
 TRANSPORTER  
 FACILITY

DAY OR NIGHT  
TELEPHONE  
(510) 235-1393

# CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

**NO. 07609**

CUSTOMER
BAY AREA TANK
JOB NO. 77152

FOR: Erickson, Inc. TANK NO. 7714

LOCATION: Richmond DATE: 12/13/91 TIME: 10:55:29

TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT UO

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 250 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%  
LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN  
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS  
WASTE FACILITY."

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

## STANDARD SAFETY DESIGNATION

**SAFE FOR MEN:** Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

**SAFE FOR FIRE:** Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

REPRESENTATIVE

TITLE

INSPECTOR



ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
 DEPARTMENT OF ENVIRONMENTAL HEALTH  
 HAZARDOUS MATERIALS DIVISION  
 80 SWAN WAY, ROOM 200  
 OAKLAND, CA 94621  
 PHONE NO. 415/271-4320

Project Specialist (print) L Miller  
L Miller

ACCEPTED  
 DEPARTMENT OF ENVIRONMENTAL HEALTH  
 470 - 27th Street, Third Floor  
 Oakland, CA 94612  
 Telephone: (415) 376-1337

If these plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans must be accepted by the Department prior to construction. Changes to your plans and Department are to ensure compliance with State and local laws. The project proposed herein is now ready for the issuance of any required building permits for construction. One copy of these accepted plans must be on the site available to all contractors and craftsmen involved in the removal.

Any change or alterations of plans and specifications must be submitted to this Department and approved by Building Inspection Department to determine if the changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:

- \_\_\_\_\_ Removal of Tank and Piping
  - \_\_\_\_\_ Sampling
  - \_\_\_\_\_ Final Inspection
- Issuance of a permit to open to the department on compliance with accepted plans and all applicable laws and regulations.
- THIS IS A FINANCIAL LIABILITY TO NOT OBTAINING THESE INSPECTIONS.

Fire Department must witness removal of all underground tanks, and all State and County Requirements must be met.  
 By Cap Dunning Date 11-27-91

UNDERGROUND TANK CLOSURE PLAN

\* \* \* Complete according to attached instructions \* \* \*

CITY OF ALAMEDA  
 APPROVED FOR ISSUE

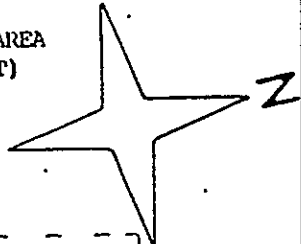
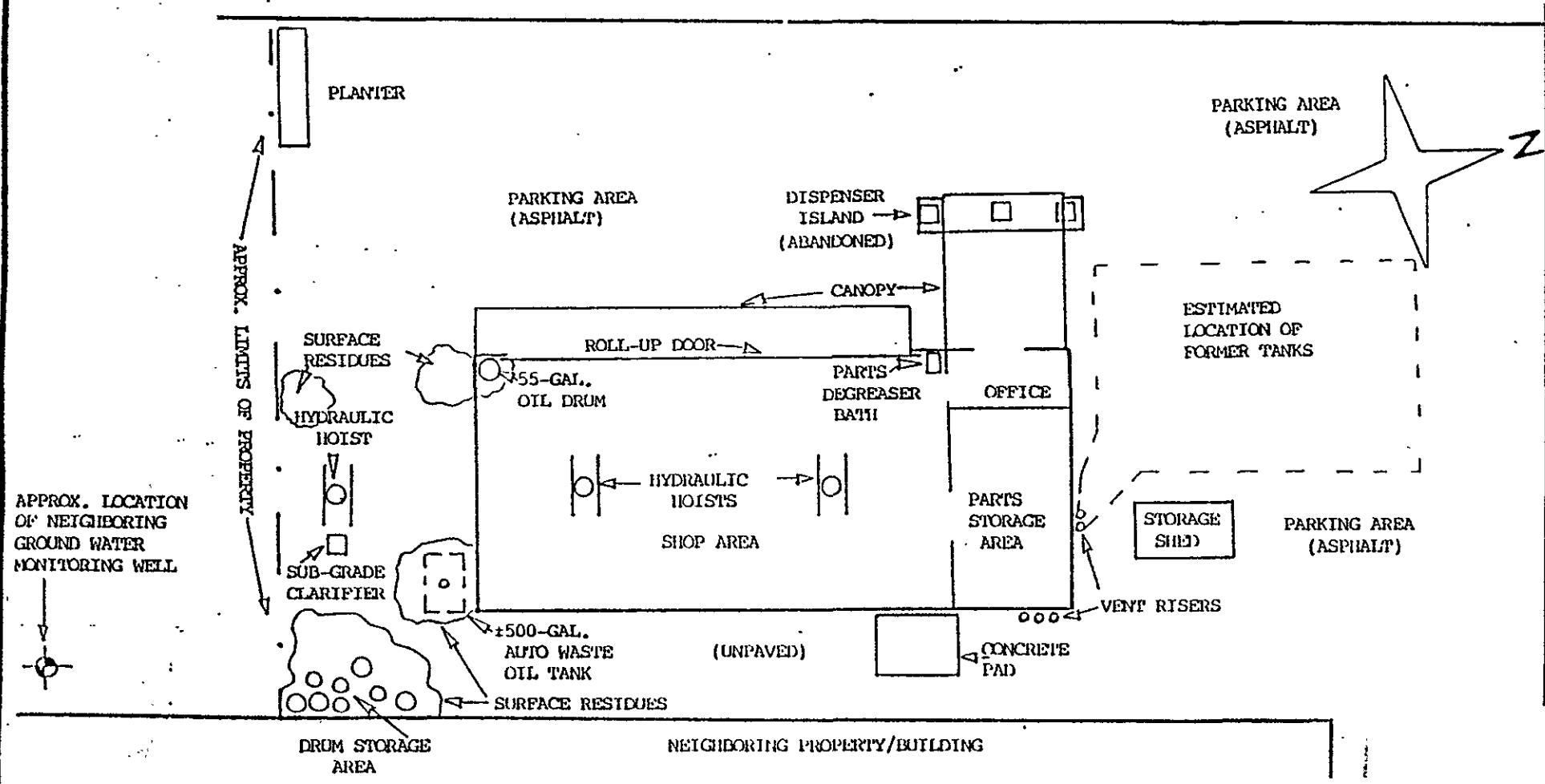
1. Business Name The Estate of John B. Henry  
 Business Owner Ms. Melinda Henry-Dare CO-Administrator  
 DATE 12/3/91 BY [Signature]  
 CENTRAL PERMIT OFFICE
  2. Site Address 1726 Park Street  
 City Alameda Zip 94501 Phone 510-523-1144
  3. Mailing Address 3312 Central Avenue  
 City Alameda Zip 94501 Phone 501-523-1144
  4. Land Owner SAME  
 Address 3312 Central Avenue City, State Alameda, Ca. Zip 94501
  5. Generator name under which tank will be manifested Melinda Henry-Dare
- EPA I.D. No. under which tank will be manifested CAC-000651400

rev 12/90

PLUMBING & MECHANICAL PLANS  
 APPROVED  
 DATE: 12-2-91  
 BY: [Signature]  
 Donald J. Rodriguez  
 Plumber & Mech. Insp.

ALL WORK MUST BE INSPECTED  
 BY THE PLUMBING/MECHANICAL DIVISION.  
 Call 748-4563 8:30 AM to 10:00 AM  
 24 Hours in Advance

PARK AVENUE



<b>TMC ENVIRONMENTAL, INC.</b>		
SCALE: 1" ± 15'	APPROVED BY:	DRAWN BY MAP
DATE: 8-22-91		REVISED
SITE MAP 1726 Park Ave. Alameda, California		
Job: 489101	DRAWING NUMBER Plate 1	

**ATTACHMENT A**  
**WELL FIELD DATA SHEETS**  
**AND**  
**MEASUREMENT LOGS**

# RECORD OF WATER SAMPLE COLLECTION

WELL LABEL: MW-1	DATE COLLECTED: 01-14-93	JOB NUMBER: 10-4891
JOB NAME: THE ESTATE OF JOHN B HENRY		SAMPLERS NAME: MARC EDWARDS
LOCATION: 1720 PARK STREET, ALAMEDA, CALIFORNIA		

**WELL HEAD COND.:**

**TIME MEASURED**

**DEPTH IN FEET  
(Measure to 0.01')**

5.38	5.38				
1250	1307				

## WELL PURGING RECORD

TOTAL DEPTH OF WELL: 19.28	DEPTH TO WATER: 5.38	DIAMETER: 2
----------------------------	----------------------	-------------

PURGE VOLUME = TOTAL DEPTH - WATER DEPTH X VOLUME FACTOR X 3 VOLUMES = 7.0 GALLONS  
 VOLUME FACTOR = 0.17 FOR 2" CASING; 0.65 FOR 4" CASING; 1.47 FOR 6" CASING

PURGE METHOD: HONDA PUMP
OVA-FID VAPOR READING, ppm :

## WELL PURGING PARAMETERS

GALLONS	TIME	TEMPERATURE degrees F	CONDUCTIVITY x 1000	TURBIDITY NTU	pH
0	1311	61.3	0.59	CLEAR	7.70
2	1315	62.8	0.60	SLT CLOUDY	7.54
4	1318	62.0	0.55	SLT CLOUDY	7.47
6	1320	61.9	0.42	CLEAR	7.47
7	1322	62.0	0.36	CLEAR	7.46

SAMPLING METHOD: DISPOSABLE BAILER	TIME COLLECTED: 1340
------------------------------------	----------------------

# RECORD OF WATER SAMPLE COLLECTION

WELL LABEL: MW-2	DATE COLLECTED: 01-14-93	JOB NUMBER: 10-4891
JOB NAME: THE ESTATE OF JOHN B HENRY		SAMPLERS NAME: MARC EDWARDS
LOCATION: 1720 PARK STREET, ALAMEDA, CALIFORNIA		

**WELL HEAD COND.:**

<b>TIME MEASURED</b>	1252	1310	1350			
<b>DEPTH IN FEET (Measure to 0.01')</b>	4.82	4.82	4.82			

## WELL PURGING RECORD

TOTAL DEPTH OF WELL: 19.58	DEPTH TO WATER: 4.82	DIAMETER: 2
----------------------------	----------------------	-------------

**PURGE VOLUME = TOTAL DEPTH - WATER DEPTH X VOLUME FACTOR X 3 VOLUMES = 7.5 GALLONS**  
**VOLUME FACTOR = 0.17 FOR 2" CASING; 0.65 FOR 4" CASING; 1.47 FOR 6" CASING**

PURGE METHOD: DISPOSABLE BAILER
OVA-FID VAPOR READING, ppm :

## WELL PURGING PARAMETERS

GALLONS	TIME	TEMPERATURE degrees F	CONDUCTIVITY x 1000	TURBIDITY NTU	pH
0	1350	58.8	0.35	CLEAR	7.96
2	1353	63.3	0.35	VERY CLOUDY	7.86
4	1355	62.0	0.36	CLOUDY	7.88
6	1357	61.8	0.37	SLT CLOUDY	7.83
7	1359	62.1	0.35	SLT CLOUDY	7.83
8	1401	62.1	0.35	SLT CLOUDY	7.83

SAMPLING METHOD: DISPOSABLE BAILER	TIME COLLECTED: 1440
------------------------------------	----------------------

**ATTACHMENT B**

**GROUNDWATER GRADIENT WORK SHEETS**

**PROPERTY ADDRESS**

1726 PARK STREET  
ALAMEDA, CA.

**SURVEYOR**

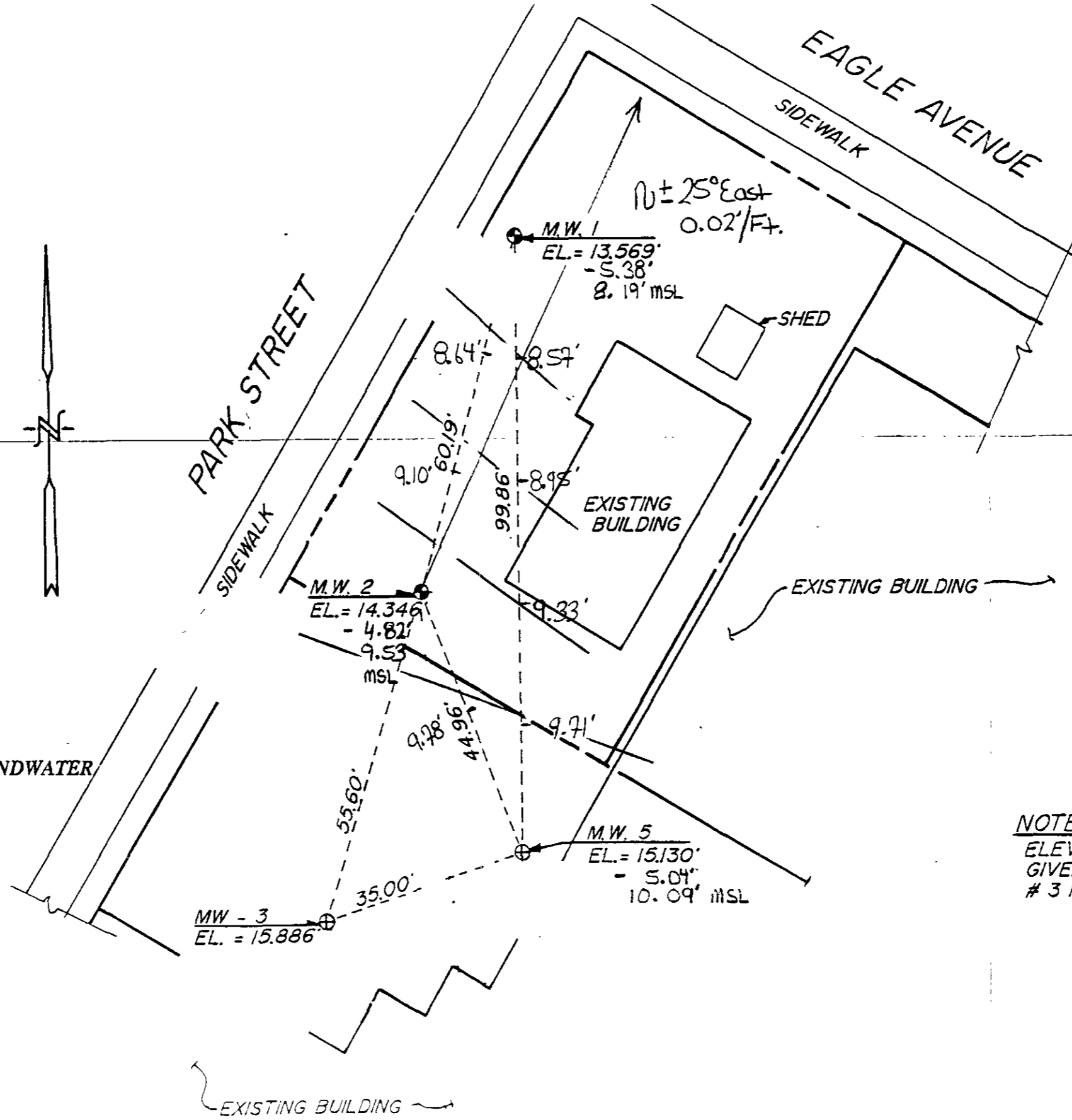
DAVID M. LOGAN L.S. 5003  
803 DORSET WAY  
BENICIA, CA.  
(707) 745-5053

DATE: MAY, 1992

SCALE: 1" = 20'

**LEGEND**

- M.W. ⊕ MONITOR WELL
- PROPERTY LINE
- ⊕ NEIGHBORING GROUNDWATER MONITORING WELL



**NOTE**  
ELEVATIONS ARE BASED ON THE GIVEN ELEVATION OF MONITOR WELL # 3 15.886'.

TMC ENVIRONMENTAL, INC.

JOB: 104891  
2-5-92



**MONITOR WELL LOCATIONS AND ELEVATIONS**

GROUNDWATER GRADIENT  
WORK SHEET 1

**PROPERTY ADDRESS**

1726 PARK STREET  
ALAMEDA, CA.

**SURVEYOR**

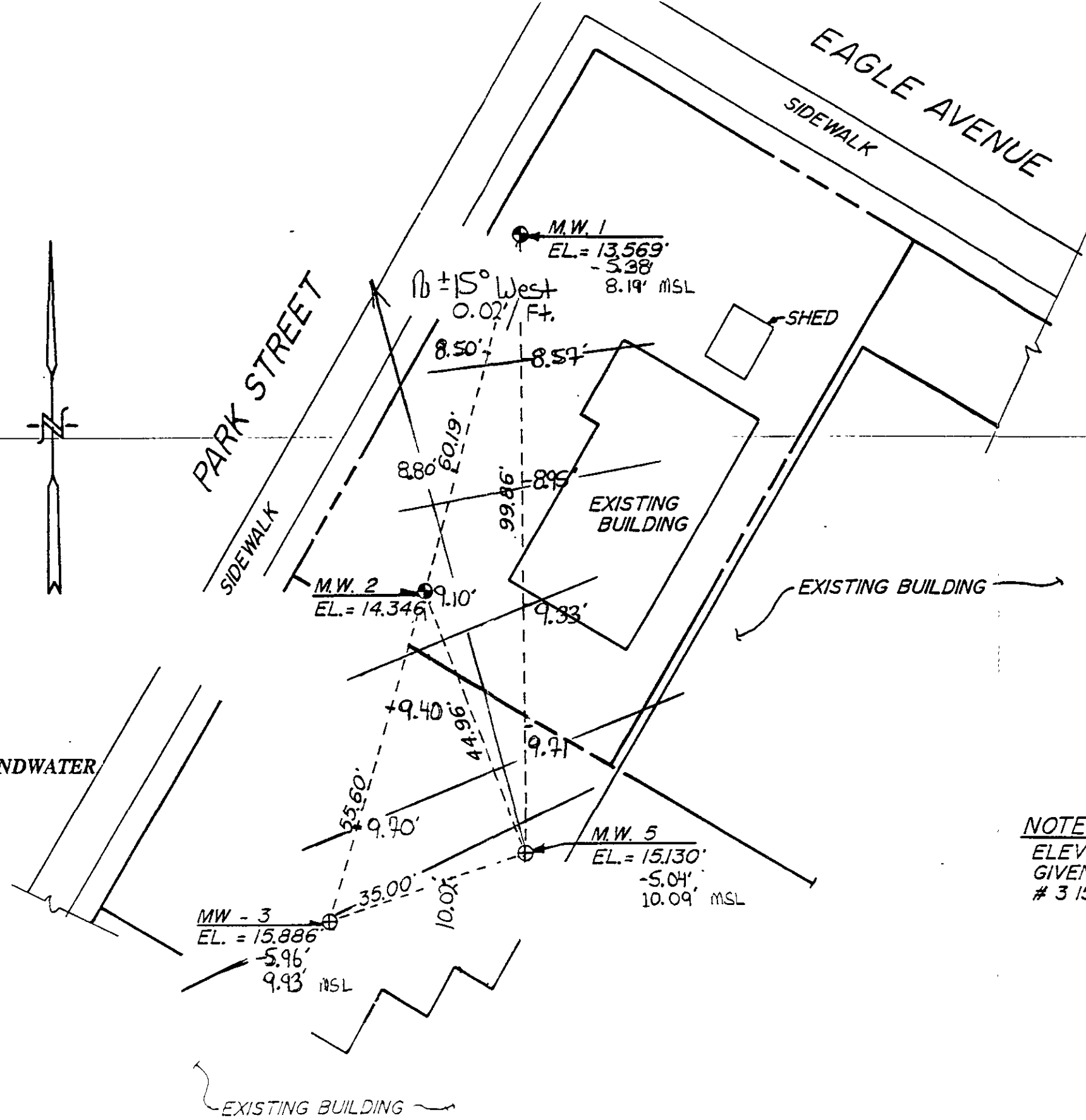
DAVID M. LOGAN L.S. 5003  
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**DATE:** MAY, 1992

**SCALE:** 1" = 20'

**LEGEND**

- M.W. ⊕ MONITOR WELL
- PROPERTY LINE
- ⊕ NEIGHBORING GROUNDWATER MONITORING WELL



**NOTE**  
ELEVATIONS ARE BASED ON THE GIVEN ELEVATION OF MONITOR WELL # 3 15.886'.

TMC ENVIRONMENTAL, INC.

JOB: 104891  
2-16-93



**MONITOR WELL LOCATIONS AND ELEVATIONS**

GROUNDWATER GRADIENT  
WORK SHEET 2



**ATTACHMENT C**

**CERTIFIED ANALYTICAL REPORTS  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST FORMS**



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

DATE RECEIVED: 01/22/93

DATE REPORTED: 01/28/93

LABORATORY NUMBER: 109828

CLIENT: TMC ENVIRONMENTAL, INC.

PROJECT ID: 104891

LOCATION: 1720 PARK STREET, SF

RESULTS: SEE ATTACHED

Teresa K. Morrison  
Reviewed by

[Signature]  
Reviewed by

This report may be reproduced only in its entirety.

LABORATORY NUMBER: 109828  
 CLIENT: TMC ENVIRONMENTAL, INC.  
 PROJECT ID: 104891  
 LOCATION: 1720 PARK STREET, SF

DATE SAMPLED: 01/22/93  
 DATE RECEIVED: 01/22/93  
 DATE EXTRACTED: 01/26/93  
 DATE ANALYZED: 01/28/93  
 DATE REPORTED: 01/28/93

Extractable Petroleum Hydrocarbons in Aqueous Solutions  
 California DOHS Method  
 LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT* (ug/L)
109828-1	MW-1	**	ND	50
109828-3	MW-2	ND	57	50

ND = Not detected at or above reporting limit.

\* Reporting limit applies to all analytes.

\*\* Pattern resembles gasoline.

QA/QC SUMMARY

```

=====
RPD, %                                2
RECOVERY, %                            95
=====
  
```

Client: TMC Environmental, Inc.

Laboratory Login Number: 109828

Project Number: 104891

Report Date: 28 January 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) METHOD: SMWW 17:5520BF

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
109828-003	MW-2	Water	22-JAN-93	22-JAN-93	26-JAN-93	ND	mg/L	5	TR	8114

ND = Not Detected at or above Reporting Limit (RL).

Q C B a t c h R e p o r t

Client: TMC Environmental, Inc.

Laboratory Login Number: 109828

Project Number: 104891

Report Date: 28 January 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric)

QC Batch Number: 8114

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	26-JAN-93

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	88%	SMWW 17:5520BF	26-JAN-93
BSD	84%	SMWW 17:5520BF	26-JAN-93

		Control Limits
Average Spike Recovery	86%	80% - 120%
Relative Percent Difference	4.6%	< 20%

LABORATORY NUMBER: 109828  
 CLIENT: TMC ENVIRONMENTAL, INC.  
 PROJECT ID: 104891  
 LOCATION: 1720 PARK STREET, SF

DATE SAMPLED: 01/22/93  
 DATE RECEIVED: 01/22/93  
 DATE ANALYZED: 01/27/93  
 DATE REPORTED: 01/28/93

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions  
 TVH by California DOHS Method/LUFT Manual October 1989  
 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
109828-1	MW-1	270	ND(0.5)	ND(0.5)	1.1	6.0
109828-3	MW-2	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not detected at or above reporting limit; Reporting limit  
 indicated in parentheses.

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	115

LABORATORY NUMBER: 109828-1  
 CLIENT: TMC ENVIRONMENTAL, INC.  
 PROJECT ID: 104891  
 SAMPLE ID: MW-1

DATE SAMPLED: 01/22/93  
 DATE RECEIVED: 01/22/93  
 DATE ANALYZED: 01/26/93  
 DATE REPORTED: 01/28/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	DETECTED (5)	5
Styrene	ND	5
Total xylenes	6	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	113 %
Toluene-d8	96 %
Bromofluorobenzene	97 %

LABORATORY NUMBER: 109828-3  
 CLIENT: TMC ENVIRONMENTAL, INC.  
 PROJECT ID: 104891  
 SAMPLE ID: MW-2

DATE SAMPLED: 01/22/93  
 DATE RECEIVED: 01/22/93  
 DATE ANALYZED: 01/26/93  
 DATE REPORTED: 01/28/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	112 %
Toluene-d8	98 %
Bromofluorobenzene	96 %



LABORATORY NUMBER: 109828  
 CLIENT: TMC ENVIRONMENTAL, INC.  
 PROJECT ID: 104891  
 SAMPLE ID: METHOD BLANK

DATE ANALYZED: 01/25/93  
 DATE REPORTED: 01/28/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	110 %
Toluene-d8	103 %
Bromofluorobenzene	101 %

Curtis &amp; Tompkins, Ltd

## 8240 Laboratory Control Sample Report

Lab No: QC39767  
Date Analyzed: 25-JAN-93  
Matrix: WATER  
Batch No: 8104 930445

LCS Datafile: &gt;BAP14

Operator: AL

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	54.16	50	108 %	61-145%
Trichloroethene	52.28	50	105 %	71-120%
Benzene	51.79	50	104 %	76-127%
Toluene	46.43	50	93 %	76-125%
Chlorobenzene	48.97	50	98 %	75-130%

## Surrogate Recoveries

1,2-Dichloroethane-d4	56.47	50	113 %	76-114%
Toluene-d8	45.39	50	91 %	88-110%
Bromofluorobenzene	48.05	50	96 %	86-115%

Results within Specifications - PASS

## MS/MSD Report

Matrix Sample Number: 109834-006      Date Analyzed: 26-JAN-93  
 Lab No: QC39769    QC39770      Spike File: >BAP21  
 Matrix: WATER      Spike Dup File: >BAP22  
 Batch No: 8104    930452    930453    930447      Analyst: AL

	Instrdg	SpikeAmt	% Rec	Limits
<u>MS RESULTS</u>				
1,1-Dichloroethene	51.34	50	103 %	61-145%
Trichloroethene	56.04	50	112 %	71-120%
Benzene	53.42	50	107 %	76-127%
Toluene	47.42	50	95 %	76-125%
Chlorobenzene	50.85	50	102 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	55.06	50	110 %	76-114%
Toluene-d8	46.6	50	93 %	88-110%
Bromofluorobenzene	48.53	50	97 %	86-115%
<u>MSD RESULTS</u>				
1,1-Dichloroethene	52.14	50	104 %	61-145%
Trichloroethene	53.21	50	106 %	71-120%
Benzene	52.94	50	106 %	76-127%
Toluene	46.84	50	94 %	76-125%
Chlorobenzene	50.96	50	102 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	55.1	50	110 %	76-114%
Toluene-d8	45.87	50	92 %	88-110%
Bromofluorobenzene	49.22	50	98 %	86-115%
<u>MATRIX RESULTS</u>				
1,1-Dichloroethene	0			
Trichloroethene	0			
Benzene	0			
Toluene	0			
Chlorobenzene	0			
<u>RPD DATA</u>				
1,1-Dichloroethene	2 %			< 14%
Trichloroethene	5 %			< 14%
Benzene	1 %			< 11%
Toluene	1 %			< 13%
Chlorobenzene	0 %			< 13%

Results within Specifications - PASS



TMC ENVIRONMENTAL, INC.  
 13908 San Pablo Avenue, Suite 101  
 San Pablo, California 94806  
 (415) 232-8366 / FAX 232-5133

CHAIN OF CUSTODY RECORD  
 ANALYSIS REQUEST FORM

Project No. 104891    Project Name: <sup>ESTATE OF</sup> John B. Henry    Project Contact: Michael Princeville    Page 1 of 1  
 Project Address: 1720 Park Street, San Francisco, CA    Turnaround Time: 5 days  
 Sampler: Tom Chigliatto / Marc Edwards    Laboratory Name: Curtis & Tompkins    Lab No: 159

LAB ID NO.	DATE	TIME	SOIL	WATER	SAMPLE LABEL	TPH-GAS BTEX	TPH-DIESEL <del>OTHER</del>	ORGANIC LEAD	OIL & GREASE	8240	REMARKS ADDITIONAL ANALYSIS
109828-1	1/22/93	1340		X	MW 1	X	X		X	X	
-2	1/22/93	1307		X	EQB-1						HOLD
-3	1/22/93	1440		X	MW 2	X	X	X	X		

Relinquished By: (Signature) _____	Date: _____	Received By: (Signature) _____	Date: _____
Relinquished By: (Signature) _____	Date: _____	Received By: (Signature) _____	Date: _____
Relinquished By: (Signature) _____	Date: 1-22-93 Time: 1506	Received By: (Signature) <u>Teresa K. Morrison</u> 1/22/93	Date: _____ Time: 3:05

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENTS

Well No.	Date Measured	Well Head Elev. (MSL) in feet	Depth to Groundwater (feet)	MSL ELV. of Groundwater (feet)
MW-1	05-12-92	13.569	- 6.16	7.41
MW-2	05-12-92	14.346	- 5.94	8.41
MW-5*	05-12-92	15.130	- 6.25	8.88
MW-1	07-28-92	13.569	- 6.68	6.89
MW-2	07-28-92	14.346	- 6.80	7.55
MW-5*	07-28-92	15.130	- 7.30	7.83
MW-1	08-17-92	13.569	- 6.77	6.78
MW-2	08-17-92	14.346	- 6.94	7.41
MW-5*	08-17-92	15.130	- 7.47	7.66
MW-1	09-21-92	13.569	- 6.96	6.61
MW-2	09-21-92	14.346	- 7.19	7.16
MW-3*	09-21-92	15.886	- 8.42	7.45
MW-5*	09-21-92	15.130	- 7.78	7.35
MW-1	01-14-93	13.569	- 5.38	8.19
MW-2	01-14-93	14.346	- 4.82	9.53
MW-3*	01-14-93	15.886	- 5.96	9.93
MW-5*	01-14-93	15.130	- 5.04	10.09

\* - NEIGHBORING WELLS

TMC used a graphical method (three point solution) to approximate the groundwater gradient and direction of flow from the groundwater elevation data; see Attachment B, Groundwater Gradient Work Sheets. The following table summarizes the estimation of groundwater flow direction and horizontal gradient.

TABLE 2  
SUMMARY OF ESTIMATED GROUNDWATER FLOW DIRECTION

Date of Measurement	Estimated Groundwater Flow Direction	Calculated Groundwater Gradient
05-12-92	North ± 20° East	0.02 Ft/Foot
07-28-92	North ± 35° East	0.01 Ft/Foot
08-17-92	North ± 18° East	0.01 Ft/Foot
09-21-92	North ± 18° to ± 30° East	0.01 to 0.004 Ft/Foot
01-14-93	North ± 15° to ± 25° East	0.02 Ft/Foot

Groundwater measurement data from May 12, July 28, August 17, and September 21, 1992, indicate down-gradient groundwater flow direction was in the north easterly direction, toward Eagle Avenue. The January 14, 1993, groundwater measurements indicate that groundwater flowed from a northeasterly to a northwesterly direction. Fluctuations in groundwater flow direction are noted, however, the down-gradient direction has been fairly consistent over the past five well gauging episodes. Fluctuations may indicate that the shallow hydrogeologic regime is sensitive to localized groundwater pumping or recharges, tidal actions and/or precipitation. Additionally, spacing of the wells is relatively close, possibly introducing additional variability to the estimates. The same factors effecting changes in groundwater flow direction may also affect the horizontal hydraulic gradient. The variation in flow direction and gradient appear reasonably small for measurements of this type.

#### 4.0 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater purging and sampling were performed on MW-1 and MW-2 on May 12, 1992, August 13, 1992, and January 14, 1993.

Using a disposal PVC bailer, both wells (MW-1 and MW-2) were checked for free product. No free product or sheen was found in the water contained within the bailer. Using a motorized suction pump, each well was then purged of approximately four well volumes. During the well purging, the water evacuated from the wells was periodically monitored for pH, electrical conductivity (E.C.), and temperature; see Attachment A. These parameters appeared to stabilize upon extracting four well volumes of water from the wells.

Groundwater sampling was performed with dedicated, disposable PVC bailers designed to recover volatile samples. The water samples were placed in the appropriate sample containers, labeled and stored in a cooler box (with ice) for transport to the laboratory for chemical analysis. Well purge water was placed in a 55-gallon drum at the site.

Groundwater samples recovered from the wells were submitted to Curtis & Tompkins Ltd., of Berkeley, California, for chemical analysis. Groundwater samples from both wells were chemically analyzed for total volatile hydrocarbons as gasoline and diesel, with benzene, toluene, ethyl benzene, and total xylenes, (BTEX) distinction, and volatile organics (VOC). Groundwater samples from monitoring well MW-2 were additionally analyzed for petroleum oil and grease.

## 5.0 DISCUSSION OF LABORATORY RESULTS

Groundwater laboratory results of the samples recovered from the two sampling episodes are summarized below in Table 3, Summary of Groundwater Sample Results for TVH Gasoline and BTEX, and Table 4, Summary of Groundwater Sample Results for Hydrocarbon Oil & Grease, Kerosene/Diesel, and Volatile Organic Compounds. Laboratory reports are presented in Attachment C, Certified Laboratory Reports and Sample Chain of Custody.

TABLE 3  
SUMMARY OF GROUNDWATER SAMPLING RESULTS  
for  
TVH GASOLINE AND BTEX

SAMPLE NO.	SAMPLE DATE	TVH AS GASOLINE (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL BENZENE (UG/L)	TOTAL XYLENES (UG/L)
MW2	05-11-92	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MW1	05-11-92	410	ND(0.5)	1.0	4.2	11
MW1	08-13-92	260	ND(0.5)	0.6	4.2	4
MW2	08-13-92	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MW1	01-14-93	270	ND(0.5)	ND(0.5)	1.1	6.0
MW2	01-14-93	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

**TABLE 4**  
**SUMMARY OF GROUNDWATER SAMPLING RESULTS for**  
**TEH KEROSENE/DIESEL, HYDROCARBON OIL & GREASE,**  
**and VOLATILE ORGANIC COMPOUNDS**

SAMPLE NO.	SAMPLE DATE	HYDRO-CARBON OIL & GREASE (UG/L)	KEROSENE/DIESEL RANGE (UG/L)	VOC's (UG/L)
MW2	05-11-92	ND(5)	ND(50)	CHLOROFORM 22(5)
MW1	05-11-92	NA	96*	ETHYL BENZENE 4.8(5) TOTAL XYLENES 11(5)
MW1	08-13-92	NA	ND(50)	ETHYL BENZENE 4.5(5)
MW2	08-13-92	ND(5)	ND(50)	CHLOROFORM 6(5)
MW1	01-14-93	NA	ND(50)	ETHYL BENZENE 5(5) TOTAL XYLENES 6(5)
MW2	01-14-93	ND(5)	57	ND

\* = QUANTITATED AS DIESEL      ND = NOT DETECTED BELOW DETECTION LIMITS  
 ( ) = LABORATORY REPORTING LIMIT      NA = CONSTITUENT NOT CHEMICALLY ANALYZED

Groundwater samples recovered from MW1 reveal the continual presence of gasoline, ethyl benzene, and xylenes. Benzene concentrations have been below detection limits in all three sampling episodes. Detectable levels of diesel were found in the May 11, 1992, sampling, but below detection limits in the August 13, 1992 and January 14, 1993 sampling episodes. Hydrocarbon oil and grease levels continue to be below laboratory detection limits.

Groundwater samples recovered from MW2 reveal the presence of diesel in the January 14, 1993, sampling episode. Chloroform, found in previous sampling episodes, were below detection limits in the January 14, 1993, sampling. All other target analytes tested have been below detection limits over the three sampling episodes.

## 6.0 WATER SAMPLE DATA QUALITY

The quality assurance and quality control (QA/AC) review of the new sample data in this report indicates the data is acceptable for the purpose and objectives of this project. Analytical data from previous analyses, only summarized in this report, was not reviewed. The U.S. Environmental Protection Agency (EPA) Test Methods for



Evaluating Solid Waste (SW-846) and the California Department of Health Services (DOHS) Leaking Underground Fuel Tank (LUFT) Manual were used to evaluate the sampling data. The SW-846 and LUFT methodologies were primarily used to analyze the samples. Curtis & Tompkins, Ltd. of Berkeley, California performed the chemical analyses. Appendix C contains the certified analytical reports and chain-of-custody forms.

## 6.1 QUALITY OF GROUNDWATER SAMPLES

Prior to sampling, all monitoring wells were purged of approximately 3 to 4 well volumes of water, in accordance with EPA protocol. The sample water was clear and free of sediment. No errors were noted in sampling procedures.

All samples were promptly delivered to the laboratory in appropriate containers. Samples were kept on ice and refrigerated until extracted by the laboratory. Wells were secure and appeared in good condition for sampling.

## 6.2 CHAIN OF CUSTODY DOCUMENTATION

Complete chain-of-custody forms were maintained for all samples from the time of their collection until their submission to the laboratory. No errors in chain-of-custody protocol were noted.

## 6.3 DIESEL AND GASOLINE HYDROCARBONS WITH BTEX, AND VOLATILE ORGANIC COMPOUNDS

Based on the QC data reviewed, total diesel and gasoline analysis by LUFT methods and benzene, toluene, ethylbenzene, and total xylenes (BTEX) analyses by EPA SW-846 Methods modified 5030/8020 and EPA Methods 8240 appear reasonably representative. Samples were analyzed within the Regional Water Quality Control Board specified 7 day maximum holding time for water samples. Matrix spike/matrix spike duplicate percent recoveries and relative percent differences (RPD's) were either within EPA-specified limits or were within limits set by professional judgment where no EPA limits exist.

## 6.4 PETROLEUM HYDROCARBON OIL & GREASE

Based on the QC data reviewed, the results of analyses for hydrocarbon oil and grease by gravimetric analysis, method SMWW 17:5520BF appear reasonably representative. Groundwater samples were analyzed within the EPA-specified maximum holding time. Surrogate spike recoveries were judged acceptable based on professional judgement. Matrix spike/matrix spike duplicate percent recoveries and relative percent differences (RPD's) were either within EPA-specified limits or were within limits set by professional

judgment where no EPA limits exist. No hydrocarbon oil and grease was detected in the method blank.

## 7.0 SCHEDULE OF ACTIVITIES

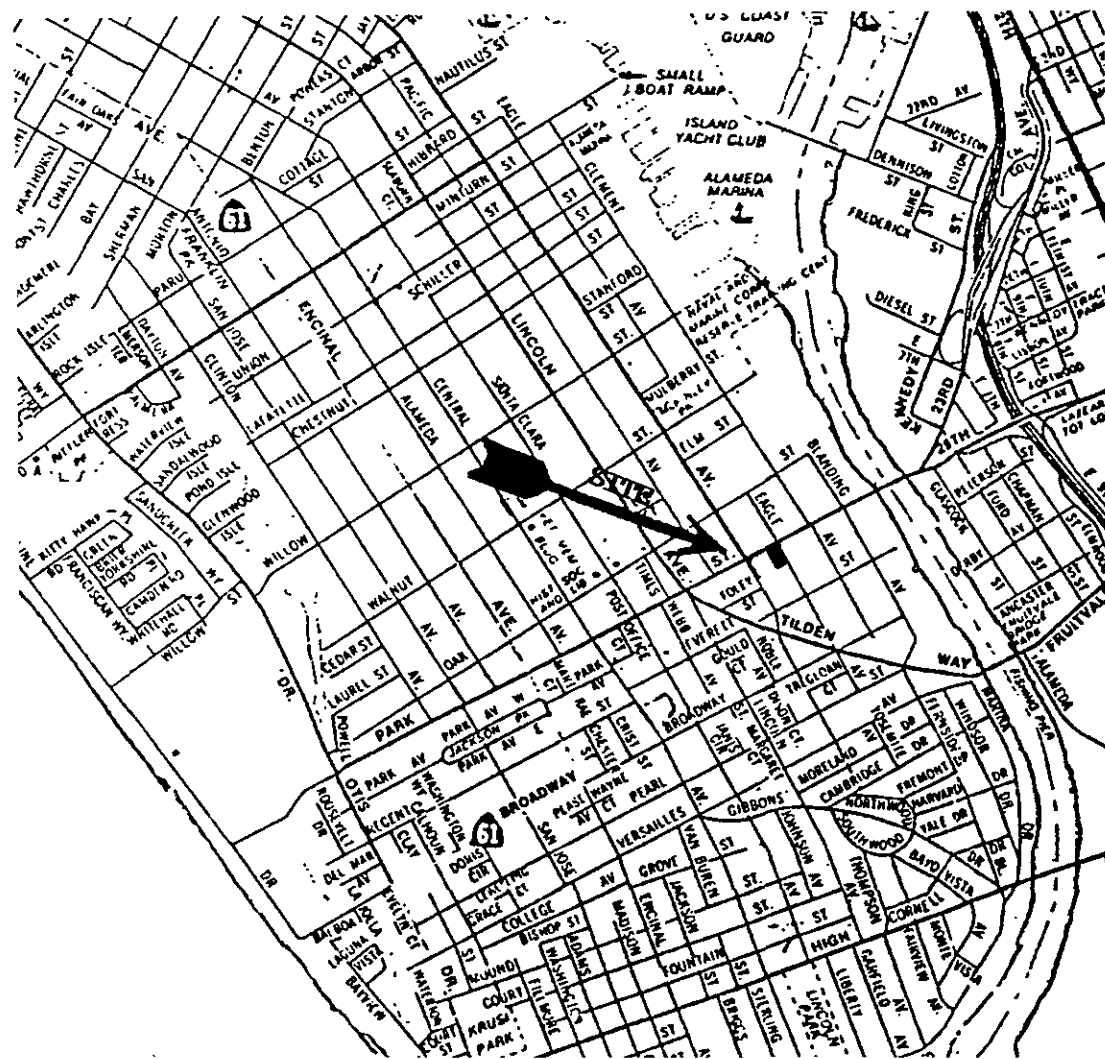
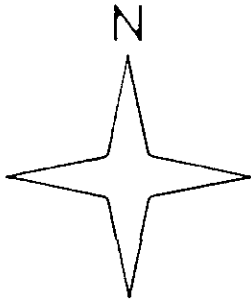
The following investigation tasks are scheduled to be completed during the next quarter:

- Quarterly groundwater sampling of the two existing groundwater monitoring wells for total volatile hydrocarbons as gasoline, benzene, toluene, ethylbenzene, total xylenes, total extractable hydrocarbons, petroleum oil and grease, volatile organics (EPA 8240), and organic lead.
- Monthly gauging of the two existing groundwater monitoring wells at the site (MW1 and MW2) and two neighboring groundwater monitoring wells (MW3 and MW5) to monitor groundwater flow direction.

## 8.0 LIMITATIONS

This report is only part of the ongoing work required by the lead implementing agency at this site. The chemical test results rely on limited data collected at the sampling location only. Budget constraints restrict the amount of testing allowed. The test results do not apply to the general site as a whole. Therefore, **TMC Environmental Inc.**, cannot have complete knowledge of the underlying conditions. **TMC** provided the information in this report to our client to enable the client to make a more informed decision about site conditions. The professional opinion and judgement in the report is subject to revisions in light of new information. **TMC** does not state or imply any guarantees or warranties that the subject property is or is not free of environmental impairment.

Additionally, monitoring wells are temporary sampling holes that eventually must be permitted and destroyed by a licensed driller at the clients expense.



Photocopy from Thomas Bros. Map, 1988

**TMC ENVIRONMENTAL, INC.**

SCALE: None

APPROVED BY:

DRAWN BY

DATE:

REVISED

SITE LOCATION MAP  
1726 Park Avenue  
Alameda, California

Job: 10-4891

DRAWING NUMBER

Plate 1