

ALL ENVIRONMENTAL, INC.

Environmental Engineering & Construction

ALCO
HAZMAT

94 SEP -7 AM 8:14

September 2, 1994
Job # 1134

Ms. Eva Chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502-6577

re: **Quarterly Groundwater Monitoring Report for La Mirada Property at 5965
Dougherty Road, Dublin**


Dear Ms. Chu:

We are enclosing one copy of the Quarterly Groundwater Monitoring Report at 5965
Dougherty Road in Dublin. This report represents the second quarter of sampling. The
groundwater sampling for this quarter took place on August 9, 1994.

Please call if you have any questions.

① Can drop analysis for Pb.

Sincerely,



Charles Kissick
Senior Geologist

cc: R. N. Stefan, La Mirada Association

**QUARTERLY
GROUNDWATER MONITORING REPORT**
5965 Dougherty Road
Dublin, CA 94568

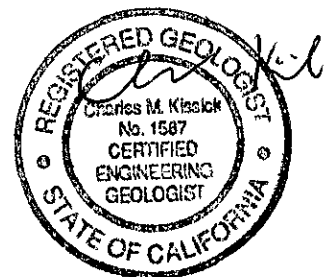
Prepared For

**La Mirada Association
18 Sunnyside Lane
Orinda, CA 94563**

Prepared By

**All Environmental, Inc.
2641 Crow Canyon Road, Suite 5
San Ramon, CA 94583**

September 2, 1994



exp. 12/96

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1.0 INTRODUCTION

This report presents the results of the quarterly groundwater sampling activities conducted at 5965 Dougherty Road in Dublin on August 9, 1994. The purpose of this activity is to monitor groundwater quality in the vicinity of previous underground storage tanks for a period of at least one year. This quarterly monitoring program is being conducted at the request of the Alameda County Health Care Services Agency (ACHCSA). The monitoring was accomplished using one monitoring well which was installed by All Environmental Inc. (AEI) on March 24, 1994, as reported by AEI (Ref. 3). AEI was contracted by La Mirada Association to conduct these sampling activities on a quarterly basis for one year. This is the second round of sampling, the first round taking place soon after installation of the well.

2.0 SITE DESCRIPTION

The site is located less than 1/2 of a mile north of Interstate 580 and less than 1 mile east of Interstate 680 in Dublin, in the San Ramon Valley region of California, as shown in Figure 1, Site Location Map. The topography of the site is relatively flat. The nearest surface water is Alamo Canal, located approximately 2,200 feet to the west.

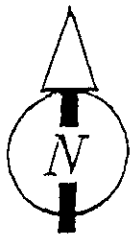
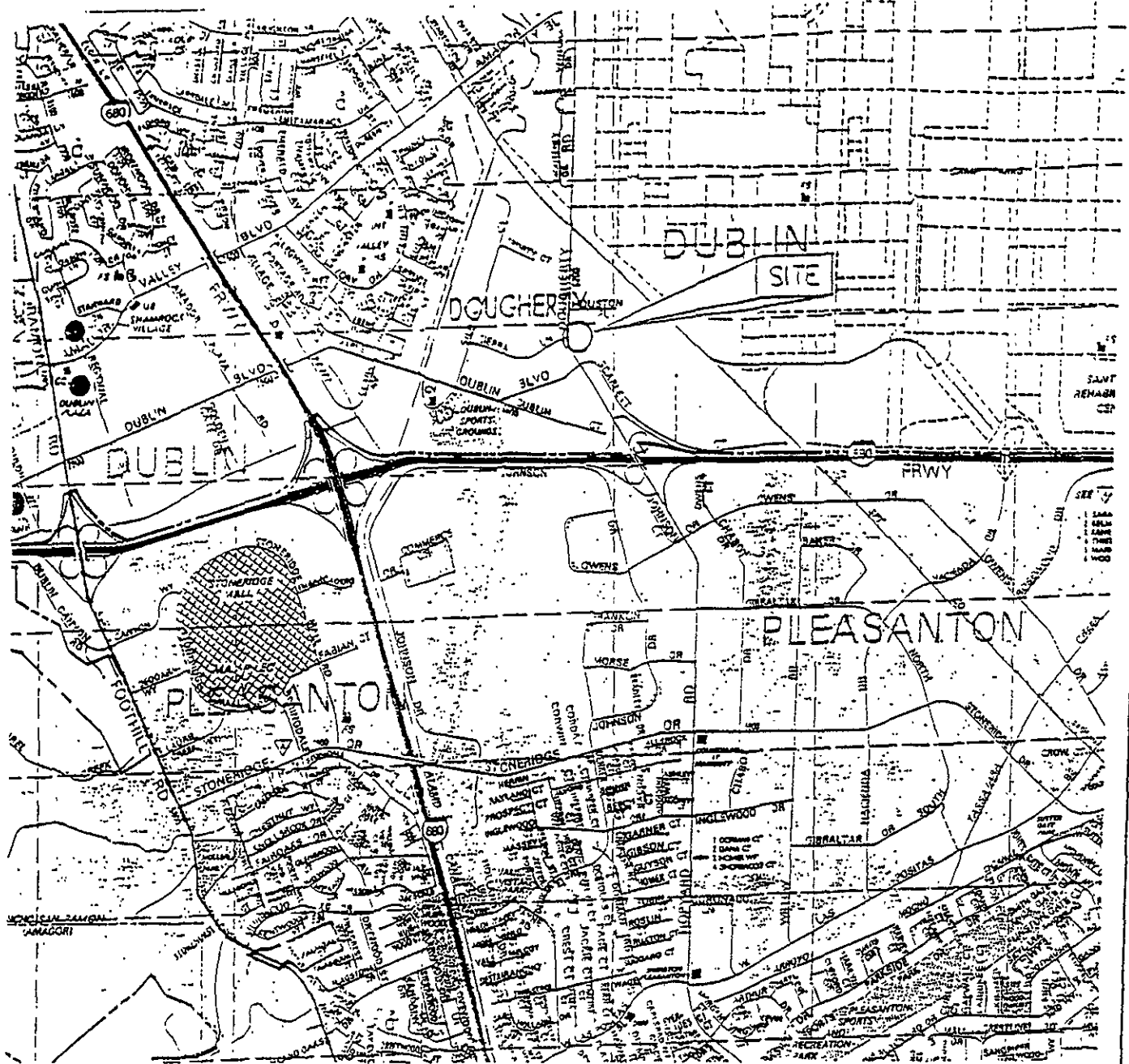
The property is located on the east side of Dougherty Road near the Dougherty Road/Sierra Lane intersection. One building is located on the property, which contains both a supply warehouse and a supply store with offices. There is a large fenced supply yard behind the building which previously contained two underground storage tanks, as shown in Figure 2, Site Map.

3.0 BACKGROUND

AEI previously removed one 10,000 gallon diesel underground storage tank and one 2,000 gallon gasoline underground storage tank from this site on October 28, 1993. Samples taken at the time of the tank removal indicated hydrocarbon contamination in the soil and groundwater from the excavation, necessitating this investigation. AEI issued a Final Report dated December 3, 1993, covering the tank removal (Ref. 1). Because a number of wells already exist adjacent to the subject property, only one monitoring well was necessary for this investigation.

4.0 SITE GEOLOGY

The site is located on semi-consolidated and unconsolidated Quaternary alluvium which was deposited in lake, playa, and stream environments in the San Ramon Valley. Quaternary alluvium is composed primarily of clay, silt, sand and gravel. The elevation of groundwater



ALL ENVIRONMENTAL, INC. 2641 CROW CANYON RD, SAN RAMON		
SCALE: 1 INCH = 2200 FEET	APPROVED BY:	DRAWN BY: S.P.
DATE: 1/14/84		REVISED: S.P.
SITE LOCATION MAP		
5965 DOUGHERTY ROAD		DRAWING NUMBER: FIGURE 1

From Thomas Bros. Map - 1992

LEGEND
 ◆ GROUNDWATER MONITORING WELL

MW-6
 ◆

MW-5
 ◆

MATERIALS YARD

FORMER DISPENSER LOCATIONS

MW-1
 ◆

FORMER UST LOCATIONS

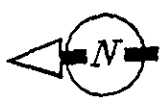
WALL

GATE

PROPERTY LINE

PARKING

AGORRA BUILDING SUPPLY, INC.
 5965 DOUGHERTY RD.
 DUBLIN, CA



DOUGHERTY RD.

ALL ENVIRONMENTAL, INC.
 2641 CROW CANYON RD, SAN RAMON

SCALE: 1 INCH = 60 FEET	APPROVED BY:	DRAWN BY: S.P.
DATE: 5/18/94		REVISED: S.P.

SITE MAP

5965 DOUGHERTY RD.

DRAWING NUMBER:
 FIGURE 2

in the vicinity has been reported to be between 320 and 330 feet above mean sea level although thin lenses of perched water bearing permeable sands and gravels can be found at depths as shallow as 9' below grade. Groundwater flow is generally to the southwest, as discussed in AEI's well installation report (Ref. 3).

5.0 GROUNDWATER SAMPLE ANALYSES

Groundwater samples were collected from well number MW-1 on August 9, 1994. A log detailing the well sampling is included in Appendix A, Current Laboratory Analyses and Chain of Custody Documentation. The groundwater samples were analyzed by Priority Environmental Labs (State Certification #1708) in Milpitas, California. The samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G) (EPA Method 5030/8015), Total Petroleum Hydrocarbons as Diesel (TPH-D) (EPA Method 3510/8015), benzene, toluene, ethyl benzene, and total xylenes (BTEX) (EPA Method 8020/602), and total lead.

Analyses showed ND (non-detect) for all constituents. Current groundwater sample analyses with chain of custody documentation are included in Appendix A. Analytical data and chain of custody documentation for the previous sampling are included in Appendix B.

Table 1 presents the results of this sampling, along with results from the previous sampling, and blank columns representing the two scheduled future samplings.

Table 1 - Water Sample Analysis Results, Well No. MW-1

Compound	May 1994	Aug. 1994	Nov. 1994	Feb. 1995
TPH-G (ug/L)	ND	ND		
TPH-D (ug/L)	ND	ND		
Benzene (ug/L)	ND	ND		
Toluene (ug/L)	ND	ND		
Et. Benz. (ug/L)	ND	ND		
Xylene (ug/L)	ND	ND		
Lead (mg/L)	ND	ND		

ug/L = ppb;

mg/L = ppm;

ND = not detected

6.0 CONCLUSIONS AND RECOMMENDATIONS

The groundwater samples taken on August 9, 1994 as part of this, the second quarter of the quarterly sampling program, showed non-detect (ND) for TPH-G, TPH-D, BTEX, and lead. The groundwater samples that were taken soon after installation of the well, on May 9, 1994, also showed ND for the same constituents. So far, tests indicate that the groundwater retrieved from well number MW-1 has not been impacted by the release of hydrocarbons at the site.

Monitoring should be continued for at least two more quarters, as per the requirements of the ACHCSA.

7.0 REFERENCES

1. Underground Storage Tank Removal - Final Report - dated December 3, 1993, prepared by All Environmental, Inc.
2. Soil Boring and Monitoring Well Installation Work Plan - dated January 13, 1994, prepared by All Environmental, Inc.
3. Final Report, Soil Boring and Monitoring Well Installation - dated May 19, 1994, prepared by All Environmental, Inc.

8.0 REPORT LIMITATIONS

This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

AEI warrants that all services were performed in accordance with the generally accepted practices in the environmental engineering and construction field which existed at the time and location of the work.

APPENDIX A

**CURRENT LABORATORY ANALYSES
AND CHAIN OF CUSTODY DOCUMENTATION**



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

August 12, 1994

PEL # 9408035

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick
Re: One water sample for Gasoline/BTEX and Diesel analyses.


Project name: La Mirada
Project number: 1043

Date sampled: Aug 09, 1994
Date extracted: Aug 10-12, 1994

Date submitted: Aug 10, 1994
Date analyzed: Aug 10-12, 1994

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	85.3%	100.7%	90.3%	92.5%	105.2%	98.5%
Detection limit	50	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602


David Duong
Laboratory Director



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

August 11, 1994

PEL # 9408035

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick
Re: One water sample for total Lead analysis.

Project name: La Mirada
Project number: 1043

Date sampled: Aug 09, 1994
Date extracted: Aug 10-11, 1994

Date submitted: Aug 10, 1994
Date analyzed: Aug 10-11, 1994

RESULTS:

SAMPLE I.D.	Lead (mg/L)
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MW-1	N.D.
------	------

Blank	N.D.
-------	------

Detection limit	0.1
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Method of Analysis	7420
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David Duong
Laboratory Director

PRIORITY ENVIRONMENTAL LABS

PEL # 38

INV #

25081

1764 Houret Ct. Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

DATE: 8/7/99 PAGE: 1 OF 1

PROJECT MGR: <u>Charles Kissick</u> COMPANY: <u>All Environmental Inc.</u> ADDRESS: <u>2641 Copw Canyon Rd, Ste 5</u> <u>: San Ramon CA 94583</u> PHONE: <u>510-820-3224</u> FAX: <u>510-938-2687</u> SIGNATURE: <u>[Signature]</u>				ANALYSIS REPORT												NUMBER OF CONTAINERS										
SAMPLE ID	DATE	TIME	MATRIX	TPH - Gasoline (EPA 5030.8015)	TPH - Gasoline (5030.8015) w/BIEX (EPA 602.8020)	TPH - Diesel (EPA 3510/3550.8015)	PURGEABLE AROMATICS BIEX (EPA 602.8020)	TOTAL OIL & GREASE (EPA 5520 C.D&F)	PESTICIDES/PCB (EPA 608.8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	CHLORINATED HYDROCARBONS (EPA 601.8010)	Lead (AA)														
MW-1	8/9	3:30	water		X	X						X													4	
PROJECT INFORMATION				SAMPLE RECEIPT				RELINQUISHED BY:				RECEIVED BY:				RELINQUISHED BY:				RECEIVED BY:						
PROJECT NAME: <u>La Mirada</u>				TOTAL # OF CONTAINERS: <u>4</u>				SIGNATURE: <u>[Signature]</u>				SIGNATURE: <u>[Signature]</u>				SIGNATURE:				SIGNATURE:						
PROJECT NUMBER: <u>1043</u>				RECD. GOOD COND./COLD: <u>yes</u>				Date: <u>8/10/99</u> Time: <u>2:20</u>				Date: <u>8/10/99</u> Time: <u>2:20 PM</u>				Date:				Date:						
INSTRUCTIONS & COMMENTS:				COMPANY:				COMPANY: <u>PEL</u>				COMPANY:				COMPANY:										

ALL ENVIRONMENTAL, INC., GW WELL SAMPLING FIELD LOG	
PROJECT	
Project Name and Job Number	La Mirada, #1134
Project Address	5965 Dougherty Road Dublin, CA
Date of Sampling and Name of Sampler	8/9/94 CMK
GW MONITORING WELLS	
Well Number and Diameter	MW-1 2"
Seal at Grade - Type and Condition	cement grout - irregular surface
Well Cap - Type and Condition	expanding w/ lock, good condition
Top of Casing Elev - Ft. Above Sea Level	332.938
Depth of Well - feet	19.22
Depth to Water - feet	10.19
Floating product - inches	0
Required GW Purge Before Sampling - gal.	8
Actual GW Purge Before Sampling - gal.	8
Appearance of Purge Water	turbid
GW MONITORING SAMPLES	
No. of Samples and Type of Containers	two 1-liter bottles, 2 40-ml vials
GW Temp. and pH	not measured
GW Conductivity	not measured
Appearance of GW Samples	turbid
Samples Iced and Chain of Custody?	yes
Sampling Equipment	submersible pump for purge, bailer for sample
Equipment Cleaned Between Samples?	n/a
COMMENTS	
ie., sample odor, well recharge, etc.	no odor, rapid recharge

APPENDIX B

**PREVIOUS LABORATORY ANALYSES
AND CHAIN OF CUSTODY DOCUMENTATION**



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

May 10, 1994

PEL # 9405023

ALL ENVIRONMENTAL, INC.

Attn: Steve DeHope

Re: One water sample for Gasoline/BTEX and Diesel analyses.

Project name: La Mirada

Project number: 1043

Date sampled: May 09, 1994

Date submitted: May 09, 1994

Date extracted: May 09-10, 1994

Date analyzed: May 09-10, 1994

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	80.2%	100.1%	72.7%	76.8%	92.0%	98.0%
Detection limit	50	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602

David Duong
Laboratory Director

Priority Environmental Labs
 1764 Houret Court
 Milpitas, CA 95035
 (408) 946-9636

Chain of Custody

1764 Houret Ct. Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

DATE: 5/9/94 PAGE: 1 OF: 1

PROJECT INFORMATION				ANALYSIS REPORT												NUMBER OF CONTAINERS										
PROJECT INFORMATION				TPH-Gasoline (EPA 5030.8015)	TPH-Gasoline(5030.8015) w/BTEX(EPA 602.8020)	TPH-Diesel (EPA 3510/3550.8015)	PURGEABLE AROMATICS BTEX (EPA 602.8020)	TOTAL OIL & GREASE (EPA 5520 EAF)	PESTICIDES/PCB (EPA 608.8080)	TOTAL RECOVERABLE HYDROCARBONS EPA 418.1																
PROJECT MANAGER: STEVE PENSORN COMPANY: ALL ENVIRONMENTAL, INC. ADDRESS: 2641 CROW CANYON RD., # 5 SAN RAMON, CA 94583 PHONE: (510) 820-3774 FAX: (510) 838-2669 SINGNATURE: <i>Steve Dellape</i>																										
SAMPLE ID	DATE	TIME	MATRIX	LAB ID																						
MW-1	5-9	10:00	W			X	X																			3
PROJECT INFORMATION PROJECT NAME: <u>La Mirada</u> PROJECT NUMBER: <u>1043</u> INSTRUCTIONS & COMMENTS: _____ _____ _____				SAMPLE RECEIPT TOTAL # OF CONTAINERS <u>3</u> RECD. GOOD COND./COLD <input checked="" type="checkbox"/>				RELINQUISHED BY: 1 SIGNATURE: <i>Steve Dellape</i> Date: <u>5/9/94</u> NAME: <u>STEVE Dellape</u> Time: <u>2:00</u> COMPANY: <u>A.E.I.</u>				RECEIVED BY: 1 SIGNATURE: <i>[Signature]</i> Date: <u>5/9/94</u> NAME: <u>[Name]</u> Time: <u>[Time]</u> COMPANY: <u>PEL</u>				RELINQUISHED BY: 2 SIGNATURE: _____ Date: _____ NAME: _____ Time: _____ COMPANY: _____				RECEIVED BY: 2 SIGNATURE: _____ Date: _____ NAME: _____ Time: _____ COMPANY: _____						