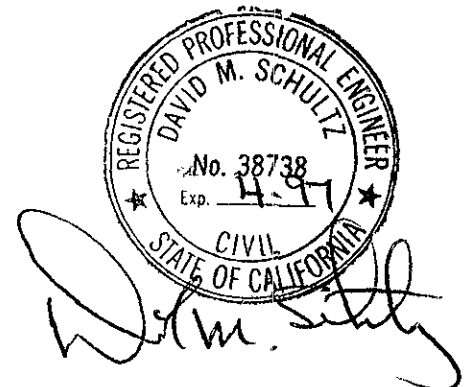




March 29, 1995

QUARTERLY GROUNDWATER MONITORING REPORT
MARCH 13, 1995 GROUNDWATER SAMPLING
ASE JOB NO. 2750
at
2110 Santa Clara Avenue
Alameda, California

Submitted by:
AQUA SCIENCE ENGINEERS, INC.
2411 Old Crow Canyon Road, #4
San Ramon, CA 94583
(510) 820-9391



WE'VE MOVED TO
2411 OLD CROW CANYON RD #4
SAN RAMON, CA 94583
510-820-9391

1.0 INTRODUCTION

This report outlines the methods and findings of Aqua Science Engineers, Inc. (ASE)'s quarterly groundwater sampling at the property located at 2110 Santa Clara Avenue in Alameda, California (*Figures 1 and 2*).

2.0 GROUNDWATER SAMPLING

On March 13, 1995, ASE measured the depth to groundwater in the site well using an electric water level sounder. The well was then purged dry using a pre-cleaned PVC pump. Groundwater samples were collected after the well recovered to 95% of its static water level. Groundwater samples were decanted from the bailer into three (3) 40-ml volatile organic analysis (VOA) vials and two (2) 1-liter amber glass bottles. All of the samples were preserved with hydrochloric acid, labeled, placed in protective foam sleeves, and stored on wet ice for transport to American Environmental Network (AEN) of Pleasant Hill, California (CSDHS #1172) under chain of custody. No odors were present in the groundwater at the time of the sampling.

Well sampling purge water was contained in DOT 17H drums and stored on-site for handling by the client at a later date. See Appendix B for a copy of the well sampling field log.

3.0 ANALYTICAL RESULTS FOR GROUNDWATER

The groundwater samples were analyzed by AEN for total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 8015, and benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8020. The analytical results are tabulated below in Table One, and the certified analytical report and chain of custody form are included in Appendix A. No significant hydrocarbons were detected in the groundwater samples.

TABLE ONE
Summary of Chemical Analysis of GROUNDWATER Samples
All Results are in parts per billion

Well I.D.	Date of Sampling	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes
MW-1	05-23-94	<50	<0.5	<0.5	<0.5	<2
	09-07-94	<50	<0.5	<0.5	<0.5	<2
	12-14-94	<50	<0.5	<0.5	<0.5	<2
	03-13-95	<50	<0.5	1	<0.5	<2
EPA METHOD		3510/ 8015	8020	8020	8020	8020

4.0 CONCLUSIONS AND RECOMMENDATIONS

Only 1 part per billion (ppb) toluene was detected in the groundwater sample collected from monitoring well MW-1 this quarter. This concentration is just above the detection limit of 0.5 ppb and well below the California Department of Toxic Substances Control (DTSC) recommended action level for drinking water. This trace detection was the only hydrocarbon concentration ever detected in groundwater samples collected from this site. ASE feels that this site is suitable for site closure. On behalf of Mr. Ghidella, *please consider this report a formal request for site closure.*

5.0 REPORT LIMITATIONS

The results of this investigation represent conditions at the time of the groundwater sampling, at the specific locations at which the samples were collected, and for the specific parameters analyzed for by the laboratory.

It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed for by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CSDHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Aqua Science Engineers appreciates the opportunity to assist you with your environmental needs. Should you have any questions or comments, please feel free to call us at (510) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



Robert E. Kitay, R.E.A.
Project Geologist



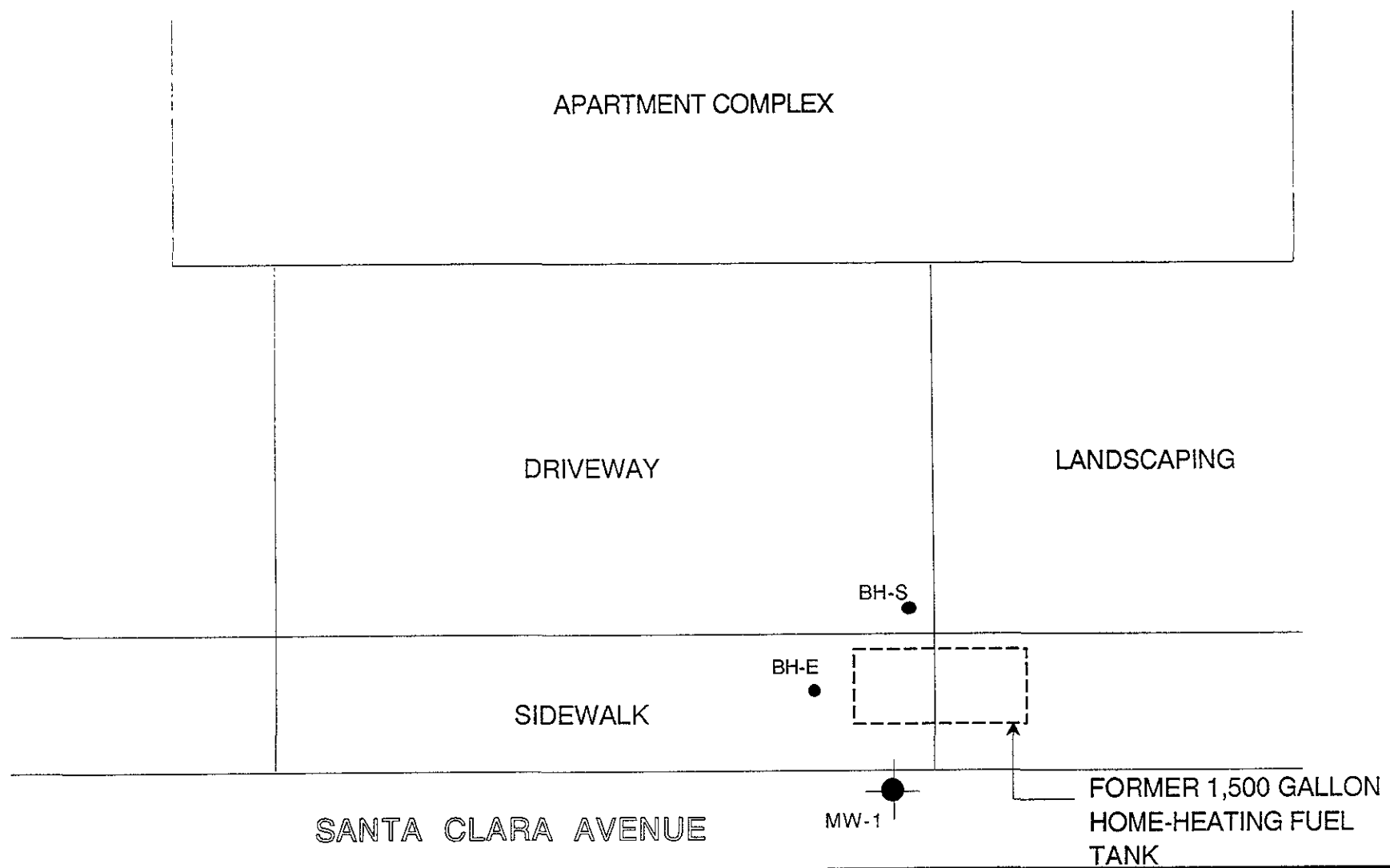
Attachments: Figures 1 and 2
Appendices A and B

cc: Mr. Micheal Ghidella
Ms. Juliet Shin, ACHCSA
Mr. Kevin Graves, RWQCB, San Francisco Bay Region





LOCATION MAP	
Ghidella Property 2110 Santa Clara Avenue Alameda, California	
Aqua Science Engineers	Figure 1

BASE Oakland East and Oakland West 7.5 minute quadrangle topographic map dated 1980. scale 1:24,000



LEGEND

MW-1
 Groundwater Monitoring Well

BH-E
 Soil Boring

NORTH

 NO SCALE

**SOIL BORING AND
 MON. WELL LOCATION MAP**

Ghidella Property
 2110 Santa Clara Avenue
 Alameda, California

AQUA SCIENCE ENGINEERS, INC. | Figure 2

APPENDIX A

Analytical Report and Chain of Custody Form

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

AQUA SCIENCE ENGINEERS, INC
2411 OLD CROW CANYON RD. #4
SAN RAMON, CA 94583

ATTN: ROBERT KITAY
CLIENT PROJ. ID: 2750
CLIENT PROJ. NAME: GHIDELLA

REPORT DATE: 03/27/95

DATE(S) SAMPLED: 03/13/95

DATE RECEIVED: 03/14/95

AEN WORK ORDER: 9503235

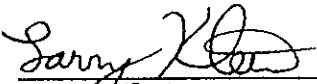
PROJECT SUMMARY:

On March 14, 1995, this laboratory received 1 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

AQUA SCIENCE ENGINEERS, INC.

AEN JOB NO: 9503235
 DATE SAMPLED: 03/13/95
 DATE RECEIVED: 03/14/95
 CLIENT PROJ. ID: 2750

Client Sample Id.	AEN Lab Id.	Extractable Hydrocarbons as Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
MW-1	01	ND	ND	1	ND	ND
Reporting Limit:		50	0.5	0.5	0.5	2
EPA Method:		3510 GCFID	8020	8020	8020	8020
Instrument:		C	H	H	H	H
Date Extracted:		03/21/95	NA	NA	NA	NA
Date Analyzed:		03/22/95	03/22/95	03/22/95	03/22/95	03/22/95

NA = Not Applicable
 ND = Not Detected

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9503235

CLIENT PROJECT ID: 2750

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9503235
 DATE EXTRACTED: 03/21/95
 INSTRUMENT: C
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
03/22/95	MW-1	01	112
QC Limits:			73-129

DATE EXTRACTED: 03/18/95
 DATE ANALYZED: 03/20/95
 SAMPLE SPIKED: DI WATER
 INSTRUMENT: C

Method Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Diesel	2.02	86	2	65-103	12

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

METHOD: EPA 8020

AEN JOB NO: 9503235
 INSTRUMENT: H
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			Fluorobenzene	
03/22/95	MW-1	01	101	
QC Limits:			92-109	

DATE ANALYZED: 03/22/95
 SAMPLE SPIKED: 9503235-01
 INSTRUMENT: H

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Benzene	18.2	92	11	85-109	17
Toluene	52.8	91	10	87-111	16

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road, #4,
San Ramon, CA 94583
(510) 820-9391 - FAX (510) 837-4853

Chain of Custody

DATE 3-13-95 PAGE 1 OF 1

SAMPLERS (SIGNATURE) _____ (PHONE NO.) _____ PROJECT NAME Ghidella NO. 2750

Robert E. Kitay (510) 820-9391 ADDRESS 2110 Santa Clara Avenue, Alameda, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

11A-E

SAMPLE ID	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GASOLINE (EPA 5030/8015)	TPH-GASOLINE/BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/8020) 3TEX Only	PURGABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240)	BASE/NEUTRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 E&F or B&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC- CAM WET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY
MW-1	3/13	11:30	Water	5			X	X									

RELINQUISHED BY: <u>Robert E. Kitay</u> (signature)	10:10 3-14-95 (time)	RECEIVED BY: <u>Michael E. McKillop</u> (signature)	10:10 (time)	RELINQUISHED BY: <u>Michael E. McKillop</u> (signature)	11:00 (time)	RECEIVED BY LABORATORY: <u>Anna Gillespie</u> (signature)	11:00 (time)	COMMENTS:
<u>Robert E. Kitay</u> (printed name)	<u>3-14-95</u> (date)	<u>Michael E. McKillop</u> (printed name)	<u>3/14</u> (date)	<u>Michael E. McKillop</u> (printed name)	<u>3/14/95</u> (date)	<u>Anna Gillespie</u> (printed name)	<u>3/14/95</u> (date)	
Company- <u>ASE</u>		Company- <u>AEN</u>		Company- _____		Company- <u>AEN</u>		

APPENDIX B

Well Sampling Field Log



WELL SAMPLING FIELD LOG

Project Name and Address: Ghidella, 2110 Santa Clara Avenue, Alameda, CA
 Job #: 2750 Date of sampling: 3-13-95
 Well Name: MW-1 Sampled by: RK
 Total depth of well (feet): 18.62 Well diameter (inches): 2
 Depth to water before sampling (feet): 3.68
 Thickness of floating product if any: None
 Depth of well casing in water (feet): 14.94
 Number of gallons per well casing volume (gallons): 2.5
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 10
 Equipment used to purge the well: 12 volt PVC casing
 Time Evacuation Began: 10:55 Time Evacuation Finished: 11:05
 Approximate volume of groundwater purged: 7 gallons
 Did the well go dry?: Yes After how many gallons: 7
 Time samples were collected: 11:30
 Depth to water at time of sampling: 4.43
 Percent recovery at time of sampling: 95%
 Samples collected with: Dedicated polyethylene bailer
 Sample color: None Odor: None
 Description of sediment in sample: None

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>Initial</u>	<u>64.6</u>	<u>7.45</u>	<u>219</u>
<u>2.5 gals</u>	<u>61.5</u>	<u>7.13</u>	<u>272</u>
<u>5 gals</u>	<u>61.2</u>	<u>7.08</u>	<u>276</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-1</u>	<u>3</u>	<u>40-ml VOA vials</u>	<u>HCl</u>	<u>Yes</u>	<u>BTEX</u>
<u>↓</u>	<u>2</u>	<u>1-liter amber glass</u>	<u>↓</u>	<u>↓</u>	<u>TPH-D</u>