



2022

July 28, 2003

Alameda County  
JUL 30 2003  
Environmental Health

QUARTERLY GROUNDWATER MONITORING REPORT  
JUNE 2003 GROUNDWATER SAMPLING  
ASE JOB NO. 3648

at  
1310 Central Avenue  
Alameda, California

Prepared for:  
Mr. Nissan Saidian  
5733 Medallion Court  
Castro Valley, CA 94522

Prepared by:  
AQUA SCIENCE ENGINEERS, INC.  
208 W. El Pintado  
Danville, CA 94526  
(925) 820-9391

## 1.0 INTRODUCTION

### Site Location (Site). See Figure 1

1310 Central Avenue  
Alameda, CA

### Responsible Party

Mr. Nissan Saidian  
5733 Medallion Court  
Castro Valley, CA 94522

### Environmental Consulting Firm

Aqua Science Engineers, Inc. (ASE)  
208 West El Pintado  
Danville, CA 94526  
Contact: Robert Kitay, Senior Geologist  
(925) 820-9391

### Agency Review

Mr. Amir Gholami  
Alameda County Health Care Services Agency (ACHCSA)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Mr. Chuck Headlee  
California Regional Water Quality Control Board (RWQCB)  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

The following is a report detailing the methods and findings of the June 3, 2003 quarterly groundwater sampling at the above-referenced site (*Figure 1*). This sampling was conducted as required by the ACHCSA and RWQCB. ASE has prepared this report on behalf of Mr. Nissan Saidian, owner of the property.

## 2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On June 3, 2003, ASE measured the depth to water in each site groundwater monitoring well using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. No free-floating hydrocarbons or sheen were observed in any site monitoring well. Groundwater elevation data is presented as *Table One*.

A groundwater potentiometric surface map is presented as *Figure 2*. Groundwater beneath the site flows to the west with a gradient of approximately 0.007-feet/foot.

## 3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Prior to sampling, all monitoring wells were purged of three well casing volumes of groundwater using dedicated polyethylene bailers. Petroleum hydrocarbon odors were present during the purging and sampling of monitoring wells MW-1 and MW-3. The parameters pH, temperature, and conductivity were monitored during the well purging, and samples were not collected until the parameters stabilized. Groundwater samples were collected from each well using dedicated polyethylene bailers.

All samples were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid, and sealed without headspace. The samples were then labeled and placed in a cooler with wet ice for transport to Kiff Analytical, LLC of Davis, California under appropriate chain-of-custody documentation. Well sampling field logs are presented in *Appendix A*.

The well purge water was placed in 55-gallon steel drums and labeled for temporary storage.

The groundwater samples collected from all three site monitoring wells were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene, and total xylenes (collectively known as BTEX), and fuel oxygenates by EPA Method 8260, and total petroleum hydrocarbons as diesel (TPH-D) by EPA Method 3550/8015M. The analytical results are presented in *Table Two*, and the certified analytical report and chain-of-custody documentation are included as *Appendix B*.

#### **4.0 CONCLUSIONS**

The groundwater beneath the site flows to the west with a gradient of approximately 0.007-feet/foot.

Concentrations of all parameters analyzed for in the groundwater sample collected from monitoring well MW-1 have increased since the previous quarter. Groundwater samples collected from monitoring well MW-2 contained TPH-D at a concentration of 700 ppb, which is a decrease since last quarter. The MTBE concentration detected in the groundwater sample collected from monitoring well MW-2 remained consistent from 1 ppb last quarter to 2 ppb this quarter. Hydrocarbon concentrations detected in the groundwater sample collected from monitoring well MW-3 have decreased this quarter with the exceptions of MTBE and TBA, which increased slightly.

The TPH-G, ethylbenzene, and total xylene concentrations detected in the groundwater sample collected from monitoring well MW-1 exceeded Risk-Based Screenings Levels (RBSLs) for groundwater that is not a current or potential source of drinking water as presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated December 2001. The TPH-D detected in the groundwater samples collected from monitoring well MW-2 and the TPH-G, benzene, and total xylene concentrations detected in the groundwater sample collected from monitoring well MW-3 also exceeded the RBSLs.

#### **5.0 RECOMMENDATIONS**

ASE recommends that this site remain on a quarterly sampling schedule. The next sampling is scheduled for September 2003. ASE will also conduct the additional soil and groundwater assessment described in the workplan dated December 13, 2002 during the next quarter.

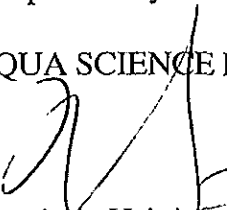
## 6.0 REPORT LIMITATIONS


The results presented in this report represent the conditions at the time of the groundwater sampling, at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former underground storage tanks and associated plumbing at the site, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

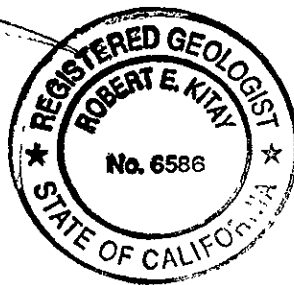
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

  
Damian Hriciga  
Project Geologist

  
Robert E. Kitay, R.G., R.E.A.  
Senior Geologist



Attachments: Table One and Two  
Figures 1 and 2  
Appendices A and B

cc: Mr. Nissan Saidian  
Mr. Amir Gholami, ACHCSA  
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region

## **TABLES**

TABLE ONE  
 Groundwater Elevation Data  
 Saidian Property-Alameda  
 Alameda, CA

Well	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Groundwater Elevation (msl)
MW-1	9/6/99	26.85	5.16	21.69
	5/16/00		3.24	23.61
	8/3/00		4.15	22.70
	12/5/00		4.90	21.95
	3/5/01		3.04	23.81
	6/4/01		4.01	22.84
	6/5/02		3.73	23.12
	9/9/02		5.06	21.79
	12/19/02		4.09	22.76
	3/10/03		3.50	23.35
	<b>6/3/03</b>		<b>3.66</b>	<b>23.19</b>
MW-2	9/6/99	27.18	5.56	21.62
	5/16/00		3.52	23.66
	8/3/00		4.44	22.74
	12/5/00		5.24	21.94
	3/5/01		3.28	23.90
	6/4/01		4.33	22.85
	6/5/02		3.98	23.20
	9/9/02		5.34	21.84
	12/19/02		4.33	22.85
	3/10/03		3.58	23.60
	<b>6/3/03</b>		<b>3.87</b>	<b>23.31</b>
MW-3	9/6/00	25.30	4.02	21.28
	5/16/00		2.06	23.24
	8/3/00		3.20	22.10
	12/5/00		3.71	21.59
	3/5/01		1.90	23.40
	6/4/01		2.72	22.58
	6/5/02		2.75	22.55
	9/9/02		3.88	21.42
	12/19/02		2.79	22.51
	3/10/03		2.36	22.94
	<b>6/3/03</b>		<b>2.65</b>	<b>22.65</b>

TABLE TWO

Summary of Chemical Analysis of GROUNDWATER Samples

Saldian Property-Alameda

Petroleum Hydrocarbons

All results are in parts per billion (ppb)

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	TAME	TBA	Other Oxygenates
<b>MW-1</b>										
9/6/1999	5,700	8,700	170	59	22	85	20,000	NA	NA	NA
5/16/2000	20,000	< 7,500	38	6.3	740	1,600	< 5.0	< 5.0	< 50	< 5.0
8/3/2000	20,000	< 6,000	56	9.7	920	1,600	< 0.5	< 0.5	< 50	< 0.5
12/5/2000	31,000	< 4,000	64	27	820	2,200	< 10	< 5.0	< 50	< 5.0
3/5/2001	20,000	< 4,000	19	< 5.0	480	870	< 5.0	< 5.0	< 50	< 5.0
6/4/2001	25,000	< 7,000	58	50	710	2,100	5.1	< 5.0	< 50	< 5.0
6/5/2002	7,400	< 1,500	9.3	6.7	180	230	< 1.0	< 1.0	< 10	< 1.0
9/9/2002	8,300	< 3,500	32	20	390	670	< 2.0	< 2.0	< 20	< 2.0
12/19/2002	5,100	--	7.9	2.5	56	93	< 1.0	< 1.0	< 10	< 1.0
3/10/2003	2,000	< 2,000	3.4	2.9	80	98	< 0.5	< 0.5	< 5.0	< 0.5
6/3/2003	7,300	< 4000	6.8	9.9	300	1000	2.3	< 0.5	< 5.0	< 0.5
<b>MW-2</b>										
9/6/1999	6,000	70	1,300	92	50	400	6,800	NA	NA	NA
5/16/2000	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 5.0
8/3/2000	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
12/5/2000	< 50	1,400	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
3/5/2001	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
6/4/2001	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
6/5/2002	< 50	2,300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
9/9/2002	< 50	1,300	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 50	< 0.5
12/19/2002	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	16	< 0.5	< 50	< 0.5
3/10/2003	< 50	3,000	< 0.5	< 0.5	< 0.5	< 0.5	1.0	< 0.5	< 50	< 0.5
6/3/2003	< 50	700	< 0.5	< 0.5	< 0.5	< 0.5	2.0	< 0.5	< 50	< 0.5
<b>MW-3</b>										
9/6/1999	43,000	870	860	70	< 0.5	65	120,000	NA	NA	NA
5/16/2000	17,000	< 5,000	2,800	60	380	190	990	9.1	350	< 5.0
8/3/2000	16,000	< 2,000	1,600	29	210	53	1,200	21	260	< 2.0
12/5/2000	17,000	5,800	1,700	45	460	240	1,100	21	230	< 5.0
3/5/2001	29,000	< 1300	2,100	68	280	100	180	< 8.0	< 80	< 8.0
6/4/2001	17,000	< 6,000	2,000	56	340	230	300	< 10	130	< 10
6/5/2002	11,000	< 2,000	1,600	46	210	47	790	< 10	220	< 10
9/9/2002	12,000	< 800	1,400	44	130	27	760	< 10	160	< 10
12/19/2002	10,000	--	740	32	180	38	86	< 5.0	< 50	< 5.0
3/10/2003	13,000	< 6,000	1,200	42	240	35	470	5.3	140	< 5.0
6/3/2003	6,500	< 3000	750	21	46	15	1,300	< 50	280	< 2.5
RBSL	500	640	46	130	290	15	1,800	NE	NE	VARIES

Notes

MTBE = Methyl-t-butyl ether

TAME = Tert-amyl methyl ether

TBA = Tert-Butanol

RBSL = Risk Based Screening Levels presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region, dated December 2001

NA = Samples Not Analyzed for this compound

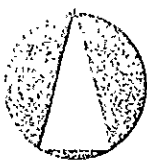
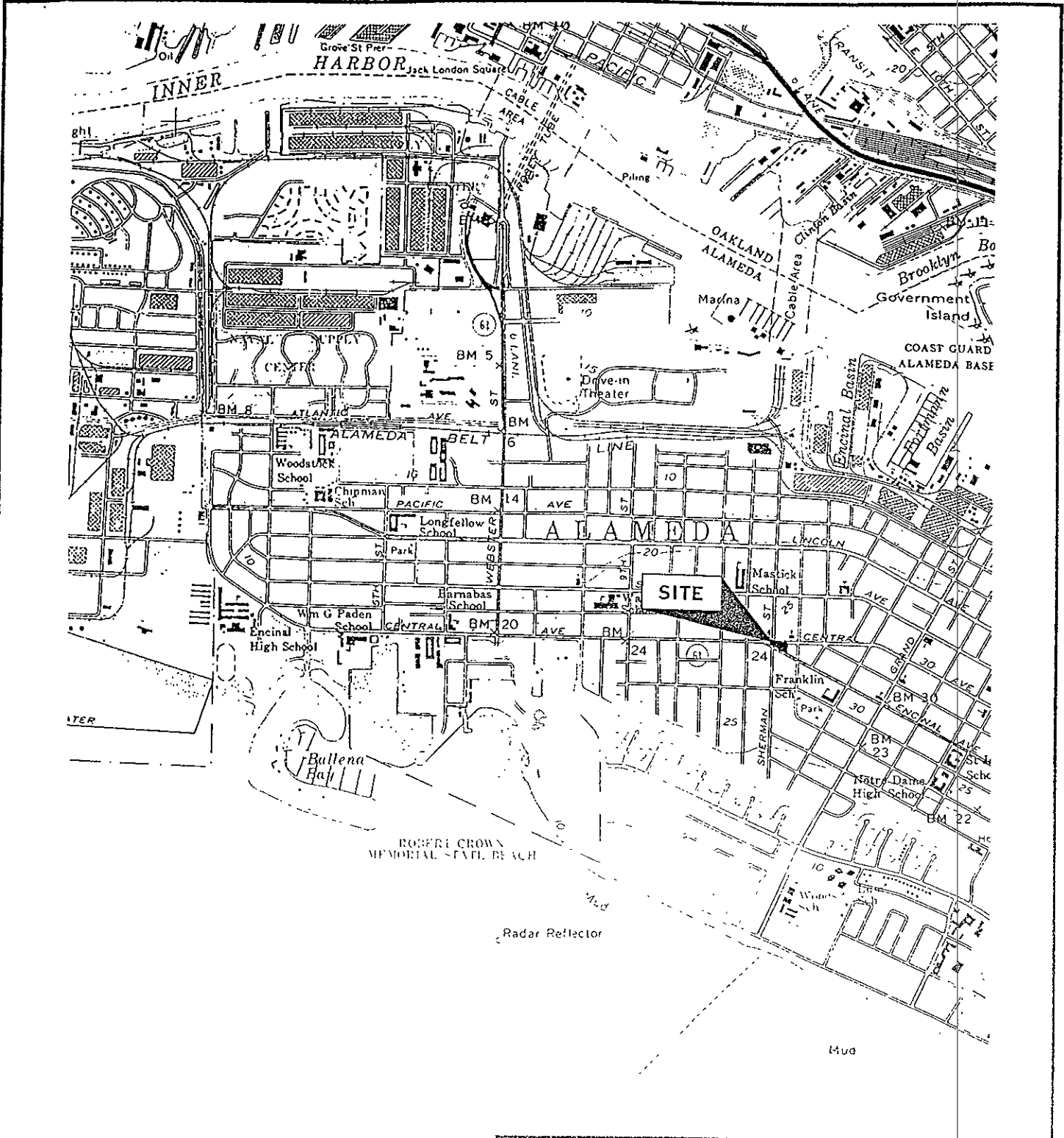
NE = DHS MCLs are not established

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit

Most recent data in bold.

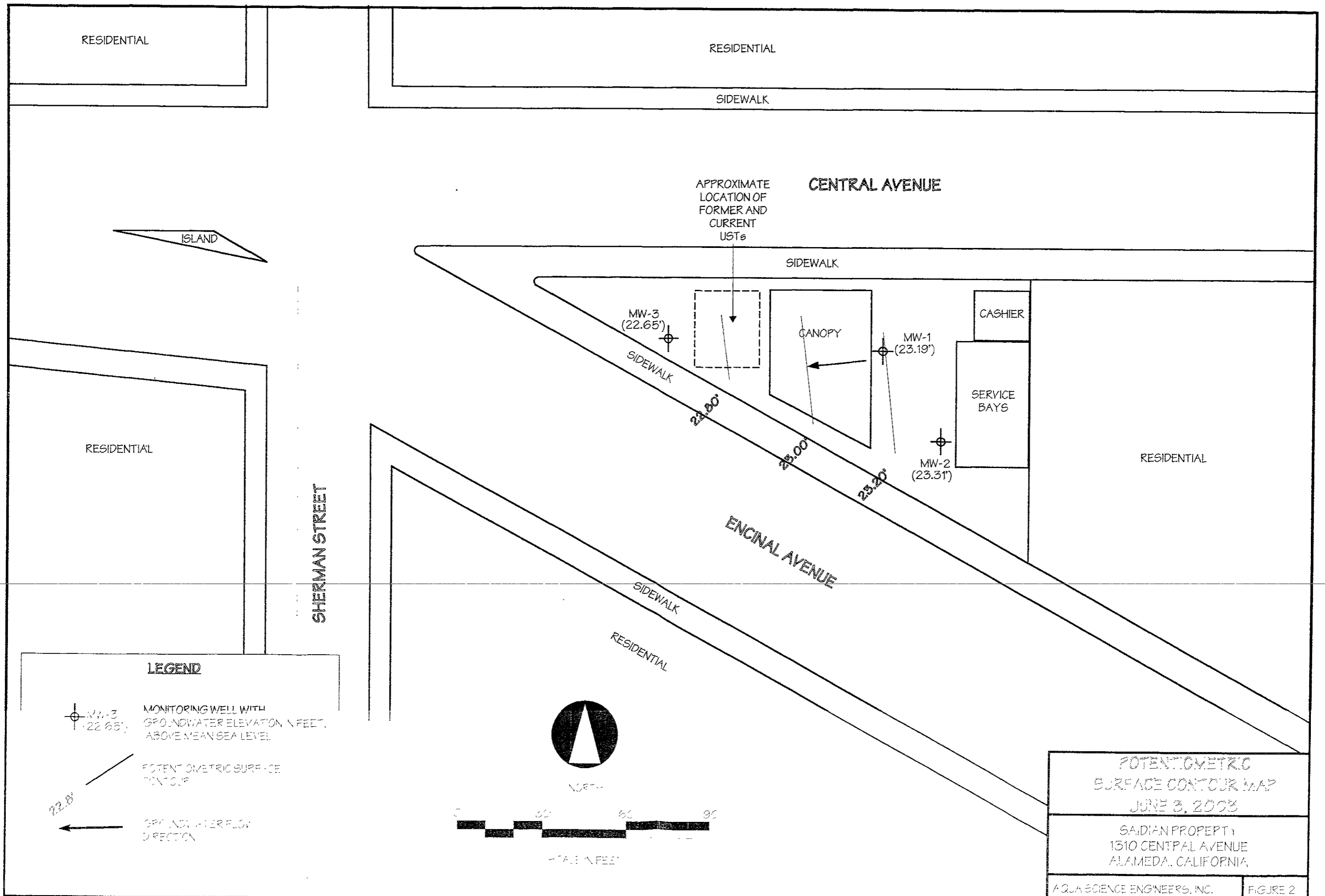


## **FIGURES**



NORTH

<h1>LOCATION MAP</h1>	
SAIDIAN PROPERTY 1310 CENTRAL AVENUE ALAMEDA, CALIFORNIA	
AQUA SCIENCE ENGINEERS, INC.	Figure 1



RESIDENTIAL

RESIDENTIAL

SIDEWALK

CENTRAL AVENUE

APPROXIMATE  
LOCATION OF  
FORMER AND  
CURRENT  
USTs

ISLAND

SIDEWALK

MW-3  
(22.65')

CANOPY

MW-1  
(23.19')

CASHIER

SIDEWALK

SERVICE  
BAYS

RESIDENTIAL

MW-2  
(23.31')

RESIDENTIAL

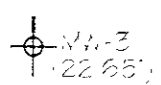
SHERMAN STREET

ENCINAL AVENUE

SIDEWALK

RESIDENTIAL

**LEGEND**



MONITORING WELL WITH  
GROUNDWATER ELEVATION IN FEET,  
ABOVE MEAN SEA LEVEL

POTENTIOMETRIC SURFACE  
CONTOUR

22.8'

GROUNDWATER FLOW  
DIRECTION



NORTH



SCALE IN FEET

POTENTIOMETRIC  
SURFACE CONTOUR MAP  
JUNE 3, 2003

SADIAN PROPERTY  
1310 CENTRAL AVENUE  
ALAMEDA, CALIFORNIA

# **APPENDIX A**

Well Sampling Field Logs



# WELL SAMPLING FIELD LOG

Pump  
Start

Project Name and Address: TRANSITION 1310 CENTRAL AVE  
 Job #: 3648 Date of sampling: 6/2/02  
 Well Name: AW-2 MW-1 Sampled by: DA  
 Total depth of well (feet): 17.60 18.0 Well diameter (inches): 2  
 Depth to water before sampling (feet): 3.57 3.66  
 Thickness of floating product if any:             
 Depth of well casing in water (feet): 14.43 14.34  
 Number of gallons per well casing volume (gallons): 2.54 2.44  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 7.6 7.3  
 Equipment used to purge the well: BALER  
 Time Evacuation Began: 1100 Time Evacuation Finished: 1135  
 Approximate volume of groundwater purged: 7 10  
 Did the well go dry?: NO After how many gallons:             
 Time samples were collected: 1200  
 Depth to water at time of sampling: 3.67  
 Percent recovery at time of sampling:             
 Samples collected with: BALER  
 Sample color: CLR Odor: MODERATE HC  
 Description of sediment in sample:           

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
1	76.1	3.65	409
2	72.3	4.94	435
3	69.7	5.17	461
4	69.7	5.52	465

## SAMPLES COLLECTED

Sample #	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-2	5	500ml vials	110C	X	





# WELL SAMPLING FIELD LOG

A/A

Project Name and Address: SAIDIAN/ALEMMED 1310 CENTRAL AVE  
 Job #: 3618 Date of sampling: 6/5/03  
 Well Name: MW-3 Sampled by: DT  
 Total depth of well (feet): 18.0 Well diameter (inches): 2  
 Depth to water before sampling (feet): 2.65  
 Thickness of floating product if any: \_\_\_\_\_  
 Depth of well casing in water (feet): 15.35  
 Number of gallons per well casing volume (gallons): 2.6  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 7.8  
 Equipment used to purge the well: Bauer  
 Time Evacuation Began: 1520 Time Evacuation Finished: 1540  
 Approximate volume of groundwater purged: 8  
 Did the well go dry?: NO After how many gallons: \_\_\_\_\_  
 Time samples were collected: 1547  
 Depth to water at time of sampling: 3.26  
 Percent recovery at time of sampling: \_\_\_\_\_  
 Samples collected with: Bauer  
 Sample color: MILKY Odor: STRONG HC  
 Description of sediment in sample: \_\_\_\_\_

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>70.3</u>	<u>6.08</u>	<u>627</u>
<u>2</u>	<u>69.1</u>	<u>6.28</u>	<u>630</u>
<u>3</u>	<u>67.1</u>	<u>6.42</u>	<u>612</u>
_____	_____	_____	_____
_____	_____	_____	_____

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-3</u>	<u>5</u>	<u>40 ml vials</u>	<u>HC</u>	<u>X</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

## **APPENDIX B**

Certified Analytical Report  
and  
Chain of Custody Documentation





Report Number : 33515

Date : 6/13/2003

Damian Hriciga  
Aqua Science Engineers, Inc.  
208 W. El Pintado Road  
Danville, CA 94526

Subject : 3 Water Samples  
Project Name : SAIDIAN / ALAMEDA  
Project Number :

Dear Mr. Hriciga,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Dahl", is written over a printed name.

Jeff Dahl



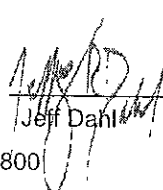
Report Number : 33515

Date : 6/13/2003

Subject : 3 Water Samples  
Project Name : SAIDIAN / ALAMEDA  
Project Number :

## Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for samples MW-1 and MW-3. Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample MW-2. The Method Reporting Limit for Tert-amyl methyl ether has been increased due to the presence of an interfering compound for sample MW-3.

Approved By:  Jeff Dahl

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 33515

Date : 6/13/2003

Project Name : SAIDIAN / ALAMEDA

Project Number :

Sample : MW-1

Matrix : Water

Lab Number : 33515-01

Sample Date :6/3/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	6.8	0.50	ug/L	EPA 8260B	6/8/2003
Toluene	9.9	0.50	ug/L	EPA 8260B	6/8/2003
Ethylbenzene	300	0.50	ug/L	EPA 8260B	6/8/2003
Total Xylenes	1000	2.0	ug/L	EPA 8260B	6/10/2003
Methyl-t-butyl ether (MTBE)	2.3	0.50	ug/L	EPA 8260B	6/8/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/8/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/8/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/8/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/8/2003
TPH as Gasoline	7300	200	ug/L	EPA 8260B	6/10/2003
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	6/8/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/8/2003
TPH as Diesel	< 4000	4000	ug/L	M EPA 8015	6/12/2003

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 33515

Date : 6/13/2003

Project Name : SAIDIAN / ALAMEDA

Project Number :

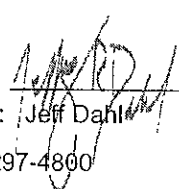
Sample : MW-2

Matrix : Water

Lab Number : 33515-02

Sample Date :6/3/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/8/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/8/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/8/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Methyl-t-butyl ether (MTBE)	2.0	0.50	ug/L	EPA 8260B	6/8/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/8/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/8/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/8/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/8/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/8/2003
Toluene - d8 (Surr)	109		% Recovery	EPA 8260B	6/8/2003
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	6/8/2003
TPH as Diesel	700	50	ug/L	M EPA 8015	6/12/2003

Approved By:  Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 33515

Date : 6/13/2003

Project Name : SAIDIAN / ALAMEDA

Project Number :

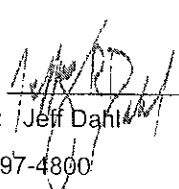
Sample : MW-3

Matrix : Water

Lab Number : 33515-03

Sample Date :6/3/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	750	2.5	ug/L	EPA 8260B	6/13/2003
Toluene	21	2.5	ug/L	EPA 8260B	6/13/2003
Ethylbenzene	46	2.5	ug/L	EPA 8260B	6/13/2003
Total Xylenes	15	2.5	ug/L	EPA 8260B	6/13/2003
Methyl-t-butyl ether (MTBE)	1300	2.5	ug/L	EPA 8260B	6/13/2003
Diisopropyl ether (DIPE)	< 2.5	2.5	ug/L	EPA 8260B	6/13/2003
Ethyl-t-butyl ether (ETBE)	< 2.5	2.5	ug/L	EPA 8260B	6/13/2003
Tert-amyl methyl ether (TAME)	< 50	50	ug/L	EPA 8260B	6/13/2003
Tert-Butanol	280	25	ug/L	EPA 8260B	6/13/2003
TPH as Gasoline	6500	250	ug/L	EPA 8260B	6/13/2003
Toluene - d8 (Surr)	109		% Recovery	EPA 8260B	6/13/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/13/2003
TPH as Diesel	< 3000	3000	ug/L	M EPA 8015	6/12/2003

Approved By:  Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 33515

Date : 6/13/2003

QC Report : Method Blank Data

Project Name : SAIDIAN / ALAMEDA

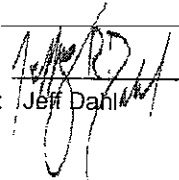
Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	6/11/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/7/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/7/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/7/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/7/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/7/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/7/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/7/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/7/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/7/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/7/2003
Toluene - d8 (Surr)	101		%	EPA 8260B	6/7/2003
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	6/7/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/12/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/12/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/12/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/12/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/12/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/12/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/12/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/12/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/12/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/12/2003
Toluene - d8 (Surr)	106		%	EPA 8260B	6/12/2003
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	6/12/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/11/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/11/2003
Toluene - d8 (Surr)	102		%	EPA 8260B	6/11/2003
4-Bromofluorobenzene (Surr)	94.2		%	EPA 8260B	6/11/2003

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: 

Report Number : 33515

Date : 6/13/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : SAIDIAN / ALAMEDA

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	1020	920	ug/L	M EPA 8015	6/11/03	102	92.0	10.1	70-130	25
Benzene	33543-03	<0.50	40.0	40.0	39.1	38.1	ug/L	EPA 8260B	6/7/03	97.6	95.2	2.57	70-130	25
Toluene	33543-03	<0.50	40.0	40.0	40.2	39.8	ug/L	EPA 8260B	6/7/03	100	99.4	1.02	70-130	25
Tert-Butanol	33543-03	<5.0	200	200	203	200	ug/L	EPA 8260B	6/7/03	101	99.8	1.50	70-130	25
Methyl-t-Butyl Ether	33543-03	<0.50	40.0	40.0	43.4	43.6	ug/L	EPA 8260B	6/7/03	108	109	0.345	70-130	25
Benzene	33570-02	<0.50	40.0	40.0	38.9	37.6	ug/L	EPA 8260B	6/12/03	97.3	94.1	3.40	70-130	25
Toluene	33570-02	0.64	40.0	40.0	42.3	41.0	ug/L	EPA 8260B	6/12/03	104	101	3.19	70-130	25
Tert-Butanol	33570-02	<5.0	200	200	209	200	ug/L	EPA 8260B	6/12/03	104	99.8	4.43	70-130	25
Methyl-t-Butyl Ether	33570-02	11	40.0	40.0	59.9	56.9	ug/L	EPA 8260B	6/12/03	122	115	6.43	70-130	25
Benzene	33577-03	<0.50	40.0	40.0	43.0	42.4	ug/L	EPA 8260B	6/11/03	108	106	1.38	70-130	25
Toluene	33577-03	<0.50	40.0	40.0	42.1	41.8	ug/L	EPA 8260B	6/11/03	105	104	0.787	70-130	25
Tert-Butanol	33577-03	<5.0	200	200	210	209	ug/L	EPA 8260B	6/11/03	105	104	0.358	70-130	25
Methyl-t-Butyl Ether	33577-03	<0.50	40.0	40.0	38.5	37.8	ug/L	EPA 8260B	6/11/03	96.2	94.6	1.65	70-130	25

Approved By:

Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Report Number : 33515

Date : 6/13/2003

Project Name : SAIDIAN / ALAMEDA

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	6/7/03	92.7	70-130
Toluene	40.0	ug/L	EPA 8260B	6/7/03	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/7/03	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/7/03	106	70-130
Benzene	40.0	ug/L	EPA 8260B	6/12/03	94.9	70-130
Toluene	40.0	ug/L	EPA 8260B	6/12/03	99.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/12/03	99.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/12/03	102	70-130
Benzene	40.0	ug/L	EPA 8260B	6/11/03	105	70-130
Toluene	40.0	ug/L	EPA 8260B	6/11/03	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/11/03	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/11/03	88.0	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Jeff Datti



Aqua Science Engineers, Inc.  
 208 W. El Pintado Road  
 Danville, CA 94526  
 (925) 820-9391  
 FAX (925) 837-4853

# Chain of Custody

33515

PAGE 1 OF 1

SAMPLER (SIGNATURE)

PROJECT NAME SAIDIAN/ALAMEDA

JOB NO. \_\_\_\_\_

ADDRESS 1310 CENTRAL AVE, ALAMEDA

## ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (5) (EPA 6010+7000)	CAM17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G/BTEX/5 OXY'S (EPA 8260)	TPH-G/BTEX/7 OXY'S / LEAD SCAYANGERS/ 1,2-DCP (EPA 8260)	5 OXY / TPH-GAS / BTEX 8260B	TPH DIESEL (mgals)		
					MW-1	6/03/02	1200	W	4														
MW-2	↓	1245	W	5																X	X		
MW-3	↓	1547	W	5																X	X		
<del>X</del>																							

01  
02  
03

RELINQUISHED BY:

(signature) \_\_\_\_\_ (time)

DAMIAN HERIGA (printed name) \_\_\_\_\_ (date)

Company- \_\_\_\_\_

RECEIVED BY:

\_\_\_\_\_  
 (signature) \_\_\_\_\_ (time)

\_\_\_\_\_  
 (printed name) \_\_\_\_\_ (date)

Company- \_\_\_\_\_

RELINQUISHED BY:

\_\_\_\_\_  
 (signature) \_\_\_\_\_ (time)

\_\_\_\_\_  
 (printed name) \_\_\_\_\_ (date)

Company- \_\_\_\_\_

RECEIVED BY LABORATORY:

(signature) \_\_\_\_\_ (time) 0933

JOHN CUTLER (printed name) \_\_\_\_\_ (date) 060603

Company- \_\_\_\_\_

KIPP ANALYTICAL

COMMENTS:

1,2-DCP = 1,2-dichloropropane

TURN AROUND TIME

STANDARD 24Hr 48Hr 72Hr

OTHER: