



ENVIRONMENTAL  
PROTECTION  
JAN 30 AM 8:55

January 27, 1997

QUARTERLY GROUNDWATER MONITORING REPORT  
JANUARY 6, 1997 GROUNDWATER SAMPLING

at

Lim Family Property  
250 8th Street  
Oakland, California

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



## 1.0 INTRODUCTION

This report outlines the methods and findings of Aqua Science Engineer's, Inc. (ASE) semi-annual groundwater monitoring at the property located at 250 8th Street in Oakland, California (*Figures 1 and 2*).

## 2.0 SITE HISTORY

A gasoline service station previously occupied the site. In May 1992, ASE removed ten underground fuel storage tanks from the site. The tanks consisted of one (1) 10,000-gallon gasoline tank, one (1) 5,000-gallon diesel tank, three (3) 2,000-gallon gasoline tanks, one (1) 2,000-gallon diesel tank, three (3) 500-gallon gasoline tanks and one (1) 250-gallon waste oil tank. Up to 10,000 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPH-G) and 5,900 ppm total petroleum hydrocarbons as diesel (TPH-D) were detected in soil samples collected during the tank removal.

Between December 1992 and March 1993, All Environmental of San Ramon, California overexcavated 1,762 cubic yards of soil from the site and off-hauled the soil to the BFI Landfill in Livermore, California. Analytical results show that all on-site soil with hydrocarbon concentrations greater than 10 ppm was removed from the site with the exception of soil along the 8th Street shoring. Up to 1,800 ppm TPH-G and 120 ppm TPH-D were detected in soil samples collected along the shoring indicating that contamination likely extends below 8th Street. This contamination left in place may still be a source for groundwater contamination.

In January 1995, ASE installed monitoring wells MW-1 and MW-2 at the site. High hydrocarbon concentrations were detected in monitoring well MW-2, downgradient of the site. Moderate hydrocarbon concentrations were detected in on-site monitoring well MW-1.

Since April 1995, the site has been on a quarterly groundwater monitoring program. Analytical results for these sampling periods are presented in Tables Two and Three.

## 3.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On January 6, 1997, ASE environmental specialist Scott Ferriman measured the depth to water in each site well using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. A sheen was present on the surface of the

groundwater in monitoring well MW-2. No free-floating hydrocarbons or sheen was present on the surface of water in monitoring well MW-1. Depth to groundwater measurements for the wells on the LUM property were measured by ASE environmental specialist Scott Ferriman. These measurements are utilized along with the data from the Lim property measurements to determine the groundwater flow direction and gradient beneath the site. This data is presented below in Table One.

**TABLE ONE**  
Summary of Groundwater Well Survey Data

Well I.D.	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-1	01-30-95	25.51	16.21		9.30
	04-12-95		15.71		9.80
	07-14-95		16.71		8.80
	10-17-95		17.72		7.79
	01-12-96		18.03		7.48
	07-25-96		16.82		8.69
	01-06-97		15.60		9.91
MW-2	01-30-95	23.99	15.02		8.97
	04-12-95		14.75		9.24
	07-14-95		16.02		7.97
	10-17-95		16.94		7.05
	01-12-96		17.05		6.94
	07-25-96		16.02		7.97
	01-06-97		14.34	sheen	9.65
LUM-1	07-14-95	23.42	Unknown		Unknown
	10-17-95		18.21	1.53	6.43*
	01-12-96		18.15	1.35	6.35*
	07-25-96		18.08	2.36	7.23*
	01-06-97		Unknown		Unknown
LUM-2	07-14-95	23.98	17.21		6.77
	10-17-95		17.67		6.31
	01-12-96		17.89	0.01	6.10*
	07-25-96		16.94		7.04
	01-06-97		14.35		9.63

\* = Adjusted for the presence of free-floating oil by the equation: Adjusted Groundwater Elevation = Top of Casing Elevation - Depth to Groundwater + (0.8 x Floating Hydrocarbon Thickness)

Groundwater elevation contours are presented on Figure 2. On January 6, 1997, groundwater flowed to the southwest beneath the site at a gradient of 0.003-feet/foot, which is consistent with previous findings.

#### 4.0 MONITORING WELL SAMPLING

On January 6, 1997, ASE sampled monitoring wells MW-1 and MW-2 at the site. Prior to sampling, four well casing volumes of water were removed from each well. The pH, temperature and conductivity were monitored during the purging, and samples were not collected until these parameters stabilized. After the water level in each well recovered to at least 80% of the water level measured prior to purging water from the well, groundwater samples were collected from the wells with dedicated polyethylene bailers. The groundwater samples from each well were decanted from the bailer into 40-ml volatile organic analysis (VOA) vials and 1-liter amber glass bottles. All of the samples were properly preserved, labeled, placed in protective foam sleeves, and stored on ice for transport to Chromalab of Pleasanton, California (ELAP #1094) under chain of custody. There was a slight hydrocarbon odor present in groundwater from monitoring well MW-1 and a strong hydrocarbon odor was present in groundwater from monitoring well MW-2.

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

#### 5.0 ANALYTICAL RESULTS FOR GROUNDWATER

The groundwater samples were analyzed for TPH-G by EPA Method 5030/8015M, TPH-D by EPA Method 3510/8015M, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) and MTBE by EPA Method 8020. The groundwater sampled from monitoring well MW-2 were analyzed for oil and grease (O&G) by Standard Method 5520BF. The analytical results are tabulated below in Tables Two and Three, and the certified analytical report and chain of custody record are included in Appendix B.

**TABLE TWO**  
**Summary of Chemical Analysis of GROUNDWATER Samples**  
**TPH-G, TPH-D, BTEX and MTBE**  
**All results are in parts per billion**

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
[REDACTED]							
01-30-95	740	200	3	5	1	4	--
04-12-95	400	500	<0.5	<0.5	3	<2	--
07-14-95	520	400	1	<0.5	2	3	--
10-17-95	400	200	0.5	1	3	<2	--
01-12-96	120	890	<0.5	<0.5	<0.5	<1.0	<2
07-08-96	320	300	0.52	2.7	1.2	2.3	<5
01-06-97	110	75	<0.5	0.68	<0.5	<0.5	<5
[REDACTED]							
01-30-95	88,000	800	19,000	18,000	2,400	10,000	--
04-12-95	110,000	990	21,000	28,000	2,800	14,000	--
07-14-95	120,000	5,000	20,000	25,000	3,200	15,000	--
10-17-95	190,000	4,000	15,000	26,000	4,900	23,000	--
01-12-96	32,000	2,600	10,000	8,000	1,100	4,800	<2
07-08-96	110,000	2,500	20,000	18,000	2,500	12,000	<500
01-06-97	230,000	37,000	11,000	19,000	4,300	20,000	<1,200
EPA METHOD	5030/ 8015M	3550/ 8015M	8020	8020	8020	8020	8020

**TABLE THREE**  
**Summary of Chemical Analysis of GROUNDWATER Samples**  
**Lead, Oil & Grease and Volatile Organic Compounds**  
**All results are in parts per billion**

<u>Compound</u>	<u>MW-1</u>	<u>MW-2</u>
<u>1-30-95</u>		
Dissolved Lead	< 0.04	< 0.04
Total Oil and Grease	< 500	19,000
Hydrocarbon Oil and Grease	< 500	17,000
Chloroform	0.5	< 30
Tetrachloroethene (PCE)	8	< 30
Other VOCs	< 0.5-2	< 30-100
<u>4-12-95</u>		
Dissolved Lead	< 0.04	< 0.04
Hydrocarbon Oil and Grease	< 500	22,000
Tetrachloroethene (PCE)	6	0.9
1,2-Dichloroethane	< 0.5	43
Other VOCs	< 0.5-2	< 30-100

**TABLE THREE (Continued)**  
**Summary of Chemical Analysis of GROUNDWATER Samples**  
**Lead, Oil & Grease and Volatile Organic Compounds**  
**All results are in parts per billion**

<u>Compound</u>	<u>MW-1</u>	<u>MW-2</u>
<u>7-14-95</u>		
Total Oil and Grease	< 500	25,000
Hydrocarbon Oil and Grease	< 500	23,000
1,2-Dichloroethane	< 0.5	35
Tetrachloroethene (PCE)	4	< 5
Other VOCs	< 0.5-2	< 5-20
<u>10-17-95</u>		
Total Oil and Grease	< 1,000	15,000
Hydrocarbon Oil and Grease	< 1,000	13,000
Tetrachloroethene (PCE)	5	< 0.5
Trichloroethene (TCE)	< 0.5	5
<u>01-12-96</u>		
Hydrocarbon Oil and Grease	< 5,000	< 5,000
<u>07-08-96</u>		
Hydrocarbon Oil and Grease	---	< 1,000
Chloroform	0.8	< 0.5
Tetrachloroethane (PCE)	6.4	< 0.5
Other VOC's	< 0.5-3	< 0.5-3
<u>01-06-97</u>		
Hydrocarbon Oil and Grease	---	4,100

## 6.0 CONCLUSIONS AND RECOMMENDATION

Very high hydrocarbon concentrations were detected in groundwater samples collected from monitoring well MW-2, downgradient of the site. The benzene, ethylbenzene and total xylenes concentrations in these samples exceeded the California Department of Toxic Substances (DTSC) maximum contaminant levels (MCLs) for drinking water. In addition, the toluene concentration in these samples exceeded the DTSC recommended action level for drinking water. Only low TPH-G, TPH-D and toluene concentrations were detected in groundwater samples collected from monitoring well MW-1. Low hydrocarbon oil and grease concentrations were detected in groundwater samples collected from monitoring well MW-2. No MTBE was detected in either of these groundwater samples.

Within the next thirty days ASE will submit a corrective action plan to the Alameda County Health Care Services Agency. The next semi-annual groundwater sampling is scheduled for early July 1997.

## 7.0 REPORT LIMITATIONS

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

It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CA-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 assist The Lim Family with their environmental needs. Should you have any questions or comments, please feel free to call us at (510) 820-9391.

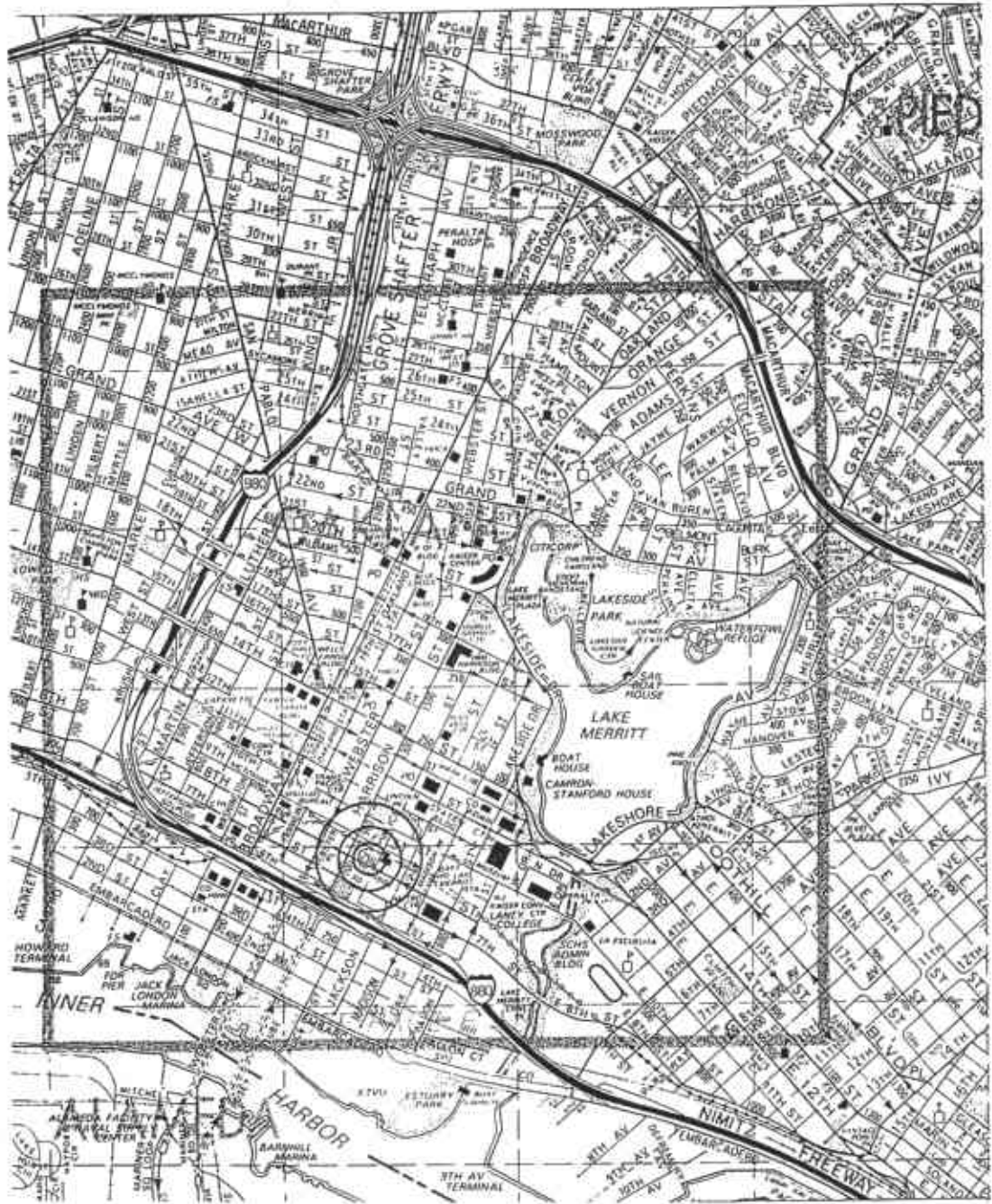
Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



Scott T. Ferriman  
Environmental Specialist

Attachments: Figures 1 and 2  
Appendices A and B



## SITE LOCATION MAP





Lim Property  
250 8th Street  
Oakland, California

Aqua Science Engineers

Figure 1



**LEGEND**

-  LIM Monitoring Well
-  LUM Monitoring Well
-  (9.65') Groundwater elevation
-  Groundwater elevation contour



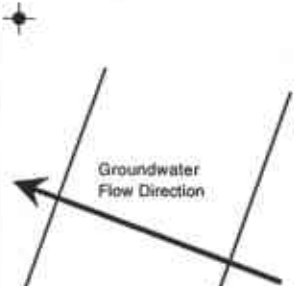
NORTH

**SCALE**

1" = 30'

8th Street

MW-2  
(9.65')



Buildings

SIDEWALK

CHURCH

PROPERTY LIMITS

BUILDING

LIM Property

Excavation I

MW-1  
(9.91')

Excavation II

9.9'

SIDEWALK

Alice Street

9.8'

SIDEWALK

LUM-1  
(Unknown)

9.7'

LUM Property

LUM-2  
(9.63')

SIDEWALK

GROUNDWATER ELEVATION  
CONTOUR MAP - 1/06/97

LIM Property  
250 8th Street  
Oakland, California

AQUA SCIENCE ENGINEERS

Figure 2

# **APPENDIX A**

## **Well Sampling Field Log**

# WELL SAMPLING FIELD LOG

Project Name and Address: Lim Property, 250 8<sup>th</sup> Street, Oakland, CA  
 Job #: 2808 Date of sampling: 1-6-97  
 Well Name: MW-1 Sampled by: SF  
 Total depth of well (feet): 2796 Well diameter (inches): 2'  
 Depth to water before sampling (feet): 15.60  
 Thickness of floating product if any: None  
 Depth of well casing in water (feet): 1236  
 Number of gallons per well casing volume (gallons): 2.1  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 8.4  
 Equipment used to purge the well: Dedicated Poly Bailor  
 Time Evacuation Began: 10:50 Time Evacuation Finished: 11:15  
 Approximate volume of groundwater purged: 8  
 Did the well go dry?: NO After how many gallons: -  
 Time samples were collected: 11:20  
 Depth to water at time of sampling: 15.71  
 Percent recovery at time of sampling: 99%  
 Samples collected with: Dedicated Poly Bailor  
 Sample color: Clear Odor: Slight  
 Description of sediment in sample: None

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>68.6</u>	<u>8.83</u>	<u>371</u>
<u>2</u>	<u>67.7</u>	<u>8.79</u>	<u>384</u>
<u>3</u>	<u>67.4</u>	<u>8.53</u>	<u>400</u>
<u>4</u>	<u>67.3</u>	<u>8.49</u>	<u>415</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-1</u>	<u>3</u>	<u>40 ml VOLS</u>	<u>HC</u>	<u>Yes</u>	<u>TPH6/BTEX/MIBE</u>
<u>↓</u>	<u>1</u>	<u>1 e. Amber</u>	<u>↓</u>	<u>↓</u>	<u>TPHD</u>



## WELL SAMPLING FIELD LOG

Project Name and Address: Lim Property, 250 8<sup>th</sup> Street, Oakland, CA  
 Job #: 2808 Date of sampling: 1-6-98  
 Well Name: MW-2 Sampled by: 1-6-98 SF  
 Total depth of well (feet): 25.82 Well diameter (inches): 2"  
 Depth to water before sampling (feet): 14.34  
 Thickness of floating product if any: Sheen  
 Depth of well casing in water (feet): 11.48  
 Number of gallons per well casing volume (gallons): 2  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 8  
 Equipment used to purge the well: Dedicated Poly Bailor  
 Time Evacuation Began: 15:30 Time Evacuation Finished: 15:52  
 Approximate volume of groundwater purged: 8  
 Did the well go dry?: No After how many gallons: ~  
 Time samples were collected: 15:55  
 Depth to water at time of sampling: 14.37  
 Percent recovery at time of sampling: 100%  
 Samples collected with: Dedicated Poly Bailor  
 Sample color: Cloudy Odor: Strong  
 Description of sediment in sample: Black silt

### SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-2	3	40 ml VOA's	✓	Yes	TPH6/BTEX/MTBE
↓	1	1 e Amber	↓	↓	TPH0
↓	1	1 e Amber	↓	↓	0+6 BF

## **APPENDIX B**

Analytical Report and Chain of Custody Forms  
For Groundwater Samples

# CHROMALAB, INC.

Environmental Services (SDB)

January 27, 1997

Submission #: 9701060

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: LIM, 250 8TH STREET  
Received: January 7, 1997


Project#: 2808

re: 1 sample for Oil and Grease analysis.  
Method: 5520 B&F

Sampled: January 6, 1997      Matrix: WATER      Extracted: January 13, 1997  
Run#: 4841      Analyzed: January 13, 1997

Spl#	CLIENT SPL ID	OIL & GREASE (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE (%)	DILUTION FACTOR
113175	MW-2	4.1	1.0	N.D.	95.0	1

  
Carolyn House  
Extractions Supervisor

  
Chip Poalinelli  
Operations Manager

# CHROMALAB, INC.

Environmental Services (SDB)

January 27, 1997

Submission #: 9701060

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: LIM, 250 8TH STREET  
Received: January 7, 1997

Project#: 2808


re: 2 samples for TPH - Diesel analysis.  
Method: EPA 8015M

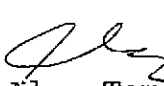
Sampled: January 6, 1997

Matrix: WATER  
Run#: 4843

Extracted: January 13, 1997  
Analyzed: January 14, 1997

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
113174	MW-1	75	50	N.D.	66.0	1
Note: Hydrocarbon reported does not match the pattern of our Diesel standard.						
113175	MW-2	37000	1000	N.D.	66.0	20
Note: Estimated concentration due to overlapping fuel patterns.						

  
Bruce Havlik  
Chemist

  
Alex Tam  
Semivolatiles Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

January 27, 1997

Submission #: 9701060

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: LIM, 250 8TH STREET  
Received: January 7, 1997

Project#: 2808

re: One sample for Gasoline, BTEX & MTBE analysis.  
Method: EPA 8015M SW846 8020A Nov 1990

Client Sample ID: MW-1

Spl#: 113174

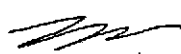
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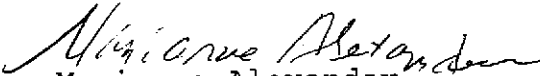
Sampled: January 6, 1997

Run#: 4808

Analyzed: January 8, 1997

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	110	50	N.D.	73.4	1
BENZENE	N.D.	0.50	N.D.	113	1
TOLUENE	0.68	0.50	N.D.	112	1
ETHYL BENZENE	N.D.	0.50	N.D.	113	1
XYLENES	N.D.	0.50	N.D.	111	1
MTBE	N.D.	5.0	N.D.	99.0	1

  
Kayvan Kimyai  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor



# CHROMALAB, INC.

Environmental Services (SDB)

January 27, 1997

Submission #: 9701060

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: LIM, 250 8TH STREET  
Received: January 7, 1997

Project#: 2808

re: One sample for Gasoline, BTEX & MTBE analysis.  
Method: EPA 8015M SW846 8020A Nov 1990

Client Sample ID: MW-2

Spl#: 113175

Matrix: WATER


Sampled: January 6, 1997

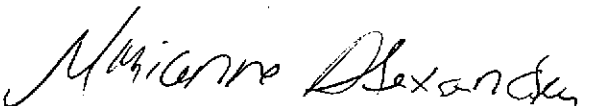
Run#: 4808

Analyzed: January 9, 1997

ANALYTE	RESULT	REPORTING	BLANK	BLANK	DILUTION
	(ug/L)	LIMIT	RESULT	SPIKE	FACTOR
	(ug/L)	(ug/L)	(ug/L)	(%)	
GASOLINE	230000	12000	N.D.	73.4	250
BENZENE	11000	120	N.D.	113	250
TOLUENE	19000	120	N.D.	112	250
ETHYL BENZENE	4300	120	N.D.	113	250
XYLENES	20000	120	N.D.	111	250
MTBE	N.D.	1200	N.D.	99.0	250

Note: Surrogate recovery was outside QA/QC limits due to sample interference.  
See Surrogate Summary page.

  
Kayvan Kimyai  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

January 27, 1997

Submission #: 9701060

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: LIM, 250 8TH STREET  
Received: January 7, 1997

Project#: 2808

re: **Surrogate** report for 2 samples for Gasoline, BTEX & MTBE  
Method: EPA 8015M SW846 8020A Nov 1990  
Lab Run#: 4808  
Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
113174-1	MW-1	TRIFLUOROTOLUENE	126	65-135
113174-1	MW-1	BROMOFLUOROBENZENE	100	65-135
113175-1	MW-2	TRIFLUOROTOLUENE	118	65-135
113175-1	MW-2	BROMOFLUOROBENZENE	95.4	65-135
113175-2	MW-2	TRIFLUOROTOLUENE	111	65-135
113175-2	MW-2	BROMOFLUOROBENZENE	156	65-135

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
113403-1	Reagent blank (MDB)	TRIFLUOROTOLUENE	115	65-135
113403-1	Reagent blank (MDB)	BROMOFLUOROBENZENE	88.0	65-135
113404-1	Spiked blank (BSP)	TRIFLUOROTOLUENE	118	65-135
113404-1	Spiked blank (BSP)	BROMOFLUOROBENZENE	111	65-135
113405-1	Spiked blank duplicate (BSD)	TRIFLUOROTOLUENE	85.6	65-135
113405-1	Spiked blank duplicate (BSD)	BROMOFLUOROBENZENE	113	65-135
113406-1	Matrix spike (MS)	TRIFLUOROTOLUENE	108	65-135
113406-1	Matrix spike (MS)	BROMOFLUOROBENZENE	82.5	65-135
113407-1	Matrix spike duplicate (MSD)	TRIFLUOROTOLUENE	109	65-135
113407-1	Matrix spike duplicate (MSD)	BROMOFLUOROBENZENE	85.5	65-135

V125  
QCSURR1229 VINCE 27-Jan-97 12:0

060/113174-113175

31513

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 1-6-97 PAGE 1 OF 1

SAMPLERS (SIGNATURE)

(PHONE NO.)

PROJECT NAME

NO. 2808

*Scott Ferriman*

510-820-2271

ADDRESS Oakland, CA

## ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

*5-Day*

SURM #: 9701060 REP: MV

CLIENT: ASE

DUE: 01/14/97

REF #: 31513

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GASOLINE (EPA 5030/8015)	TPH-GASOLINE/BTEX/MX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/8020)	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)	LEAD METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC-CA (EPA 131)	REACTIV CORROSIV	IGNITABI
MW-1	1-6-97	11:20	Water	4		X	X											
MW-2	1-6-97	15:55	Water	5		X	X					X						

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY LABORATORY:

COMMENTS:

*Scott Ferriman*

*B. Macron* 12:06

*B. Macron* 1:46

*Chris Rowley* 1:04

(signature) (time)

(signature) (time)

(signature) (time)

(signature) (time)

Scott i. Ferriman 1-7-97

B. Macron 1-7-97

B. Macron 1-7-97

Chris Rowley 1/7/97

(printed name) (date)

(printed name) (date)

(printed name) (date)

(printed name) (date)

Company- ASE

Company- Chromalab

Company- Chromalab

Company- Chromalab