aqua science engineers inc.

May 6, 2006

QUARTERLY GROUNDWATER MONITORING REPORT
MARCH 2006 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. Barney Chan
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 March 2006 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 March 1, 2006, 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 were observed in any of the monitoring wells this quarter. However, the water sampled from MW-3 did have a slight sheen on the water surface. Groundwater elevation data is presented as *Table One*.

A groundwater potentiometric surface map is presented as *Figure 2*. Groundwater beneath the site was calculated as flowing to the west-southwest with a gradient of approximately 0.008 feet/foot. Groundwater gradient and flow direction are relatively consistent with last quarters results.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

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

The samples were decanted from the bottom of the bailers using low flow emptying devices 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 (ELAP #2236) 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 a 55-gallon steel drum 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

Changes in detected concentrations and concentrations exceeding Environmental Screening Levels[1] (ESLs):

- Concentrations of detected compounds decreased in groundwater samples collected from monitoring well MW-1, with the exception of total xylenes which increased. Concentrations of TPH-G and xylenes exceeded the ESLs.
- The concentration of TPH-D in groundwater collected from monitoring well MW-2 increased and exceed the ESL.
- Concentrations of detected hydrocarbons in monitoring well MW-3 remained relatively unchanged from the previous quarter's results. Concentrations of TPH-G, benzene and TBA decreased slightly, while concentrations of ethyl benzene and MTBE increased slightly. Concentrations of TPH-G and benzene exceeded the ESLs.

5.0 RECOMMENDATIONS

ASE recommends that this site remain on a quarterly sampling schedule. The next sampling is scheduled for June 2006. A soil and groundwater assessment has recently been conducted at the site. A report presenting the results of the assessment will be submitted in 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.

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[1] As presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated February 2005.

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.

David Rains
Staff Geologist

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

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

cc: Mr. Nissan Saidian
Mr. Barney Chan, ACHCSA
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region

TABLES

TABLE ONE
Groundwater Elevation Data
Saidian Property-Alameda
1310 Central Avenue, 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
	6/3/03		3.66	23.19
	9/18/03		4.91	21.94
	12/22/03		4.30	22.55
	3/12/04		2.93	23.92
	6/11/04		4.23	22.62
	9/13/04		5.02	21.83
	12/16/04		3.76	23.09
	3/21/05		2.81	24.04
	6/23/05		3.66	23.19
	9/30/05		4.55	22.30
	12/8/05		4.21	22.64
	3/1/06		**2.90**	**23.95**
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
	6/3/03		3.87	23.31
	9/18/03		5.24	21.94
	12/22/03		4.47	22.71
	3/12/04		3.10	24.08
	6/11/04		4.51	22.67
	9/13/04		5.35	21.83
	12/16/04		4.09	23.09
	3/21/05		3.01	24.17
	6/23/05		3.91	23.27
	9/30/05		4.86	22.32
	12/8/05		4.49	22.69
	3/1/06		**3.09**	**24.09**
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
	6/3/03		2.65	22.65
	9/19/03		3.15	22.15
	12/22/03		2.83	22.47
	3/12/04		2.00	23.30
	6/11/04		3.11	22.19
	9/13/04		3.90	21.40
	12/16/04		2.89	22.41
	3/21/05		1.93	23.37
	6/23/05		2.69	22.61
	9/30/05		4.54	20.76
	12/8/05		3.05	22.25
	3/1/06		1.95	23.35

TABLE TWO

Summary of Chemical Analysis of GROUNDWATER Samples

Saidian 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
MW-1										
9/6/99	5,700	8,700	170	59	22	85	20,000	NA	NA	NA
5/16/00	20,000	< 7,500	38	6.3	740	1,600	< 5.0	< 5.0	< 50	< 5.0
8/3/00	20,000	< 6,000	56	9.7	920	1,600	< 0.5	< 0.5	< 50	< 0.5
12/5/00	31,000	< 4,000	64	27	820	2,200	< 10	< 5.0	< 50	< 5.0
3/5/01	20,000	<4,000	19	<5.0	480	870	<5.0	<5.0	<50	<5.0
6/4/01	23,000	<7,000	58	50	710	2,100	5.1	<5.0	<50	<5.0
6/5/02	7,400	<1,500	9.3	6.7	180	230	<1.0	<1.0	<10	<1.0
9/9/02	8,300	< 3,500	32	20	390	670	< 2.0	< 2.0	< 20	< 2.0
12/19/02	5,100	--	7.9	2.5	56	93	< 1.0	< 1.0	< 10	< 1.0
3/10/03	2,000	< 2,000	3.4	2.9	80	98	< 0.5	< 0.5	< 5.0	< 0.5
6/3/03	7,300	< 4,000	6.8	9.9	300	1,000	2.3	< 0.5	< 5.0	< 0.5
9/18/03	9,000	< 3,000	26	22	420	1,200	4.5	< 1.5	< 20	< 1.5
12/22/03	4,300	< 2,000	12	6.7	200	290	9.1	< 1.0	< 10	< 1.0
3/12/04	7,000	< 3,000	8.3	8.2	250	760	3.9	< 2.0	< 20	< 2.0
6/11/04	13,000	< 4,000	26	27	530	1,700	< 2.5	< 2.5	< 15	< 2.5
9/13/04	17,000	< 4,000	37	42	840	2,000	< 5.0	< 5.0	< 50	< 5.0
12/16/04	1,800	< 1,000	5.9	1.9	100	35	16	< 0.5	< 5.0	< 0.5
3/21/05	7,500	< 3,000	3.4	4.2	290	760	< 1.5	< 1.5	< 20	< 1.5
6/23/05	11,000	< 8,000	15	11	370	910	2.4	< 1.5	< 7	< 1.5
9/30/05	9,800	< 4000	32	25	540	680	1.6	< 1.5	< 7.0	< 1.5
12/8/05	9,200	< 4,000	27	21	500	490	2.2	< 1.5	< 7.0	< 1.5
3/1/06	**6,500**	**< 4,000**	**8.1**	**9.4**	**370**	**660**	**1.8**	**< 1.5**	**< 6.0**	**< 1.5**
MW-2										
9/6/99	6,000	70	1,300	92	50	400	6,800	NA	NA	NA
5/16/00	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 5.0
8/3/00	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
12/5/00	< 50	1,400	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
3/5/01	<50	<50	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
6/4/01	<50	<50	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
6/5/02	< 50	2,300	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
9/9/02	< 50	1,300	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 5.0	< 0.5
12/19/02	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	16	< 0.5	< 5.0	< 0.5
3/10/03	< 50	3,000	< 0.5	< 0.5	< 0.5	< 0.5	1.0	< 0.5	< 5.0	< 0.5
6/3/03	< 50	700	< 0.5	< 0.5	< 0.5	< 0.5	2.0	< 0.5	< 5.0	< 0.5
9/18/03	< 50	1,400	< 0.5	< 0.5	< 0.5	< 0.5	4.7	< 0.5	< 5.0	< 0.5
12/22/03	< 50	1,000	< 0.5	< 0.5	< 0.5	< 0.5	39	< 0.5	< 5.0	< 0.5
3/12/04	< 50	250	< 0.5	< 0.5	< 0.5	< 0.5	2.1	< 0.5	< 5.0	< 0.5
6/11/04	< 50	920	< 0.5	< 0.5	< 0.5	< 0.5	0.75	< 0.5	< 5.0	< 0.5
9/13/04	< 50	140	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	< 5.0	< 0.5
12/16/04	< 50	150	< 0.5	< 0.5	< 0.5	< 0.5	12	< 0.5	< 5.0	< 0.5
3/21/05	< 50	130	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
6/23/05	< 50	1,100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
9/30/05	< 50	300	< 0.5	< 0.5	< 0.5	< 0.5	1.6	< 0.5	< 5.0	< 0.5
12/8/05	< 50	600	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 0.5	< 5.0	< 0.5
3/1/06	**< 50**	**920**	**< 0.5**	**< 0.5**	**< 0.5**	**< 0.5**	**< 0.5**	**< 0.5**	**< 5.0**	**< 0.5**
MW-3										
9/6/99	43,000	870	860	70	< 0.5	65	120,000	NA	NA	NA
5/16/00	17,000	< 5,000	2,800	60	380	190	990	9.1	350	< 5.0
8/3/00	16,000	< 2,000	1,600	29	210	53	1,200	21	260	< 2.0
12/5/00	17,000	5,800	1,700	45	460	240	1,100	21	230	< 5.0
3/5/01	29,000	<1300	2,100	68	280	100	180	<8.0	<80	<8.0
6/4/01	17,000	<6,000	2,000	56	340	230	300	<10	130	<10
6/5/02	11,000	<2,000	1,600	46	210	47	790	<10	220	<10
9/9/02	12,000	< 800	1,400	44	130	27	760	< 10	160	< 10
12/19/02	10,000	--	740	32	180	38	86	< 5.0	< 50	< 5.0
3/10/03	13,000	< 6,000	1,200	42	240	35	470	5.3	140	< 5.0
6/3/03	6,500	< 3,000	750	21	46	15	1,300	< 50	280	< 2.5
9/18/03	9,800	< 3,000	1,500	38	170	32	420	< 10	150	< 10
12/22/03	8,800	< 2,000	1,100	32	82	20	330	5.8	52	< 5.0
3/12/04	7,600	< 3,000	590	23	69	17	470	9.2	63	< 2.5
6/11/04	7,800	< 2,000	840	19	58	15	710	12	140	< 1.5
9/13/04	7,500	< 1,500	840	17	23	7.8	730	15	93	< 2.5
12/16/04	9,300	< 2,000	1,100	26	76	13	600	12	130	< 2.5
3/21/05	11,000	< 3,000	1,200	37	190	24	460	9.3	100	< 2.5
6/23/05	9,600	< 4,000	1,100	28	93	23	370	8.2	67	< 2.5
9/30/05	9,000	< 3,000	690	18	32	14	380	8.4	72	< 1.5
12/8/05	8,700	< 3,000	560	23	38	12	350	6.9	82	< 1.5
3/1/06	**8,400**	**< 2,000**	**410**	**24**	**42**	**13**	**360**	**8.0**	**58**	**< 1.5**
ESL	500	640	46	130	290	100	1,800	NE	NE	VARIES

Notes:

MTBE = Methyl-t-butyl ether

TAME = Tert-amyl methyl ether

TBA = Tert-Butanol

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (February 2005)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

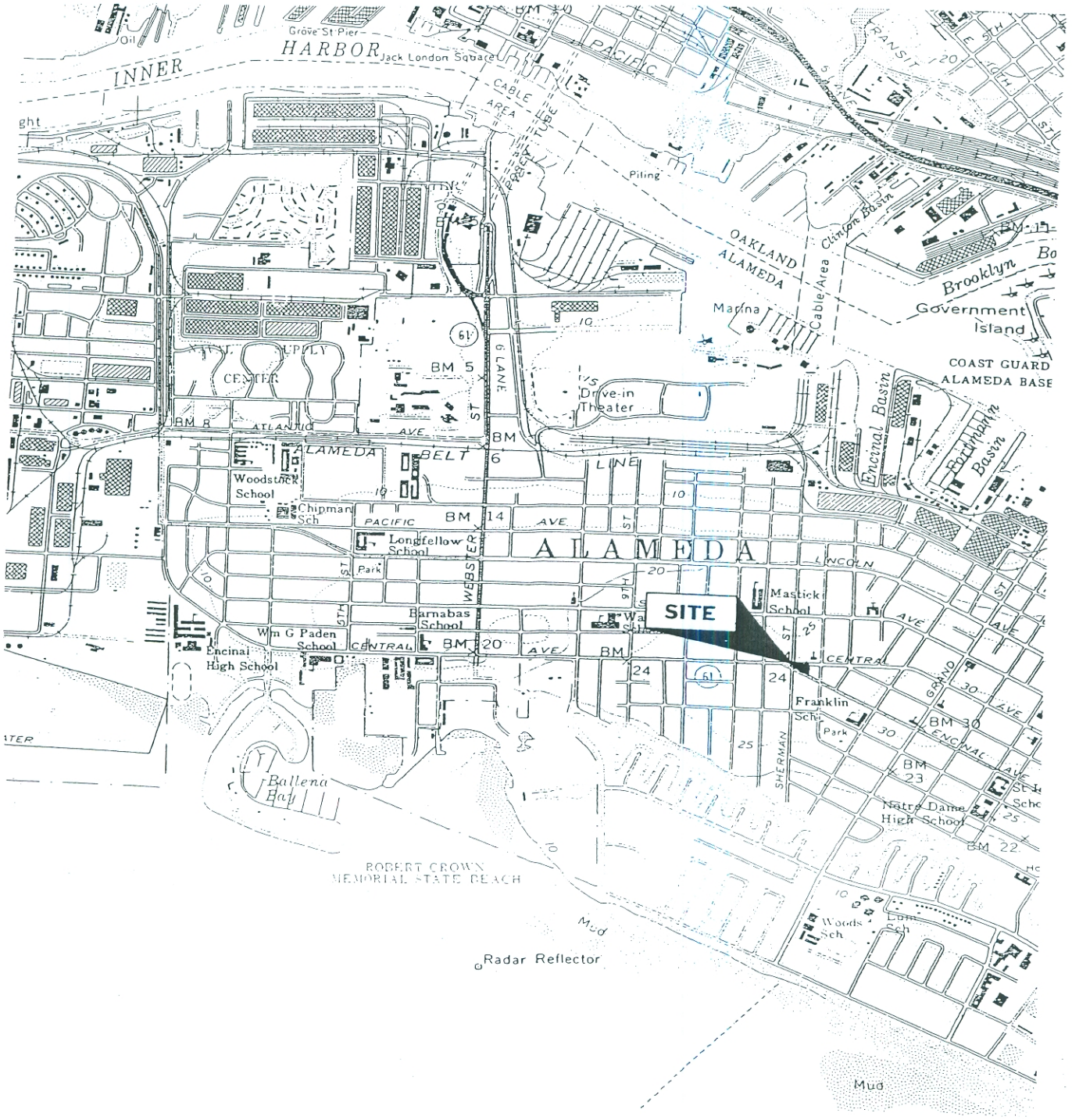
NA = Samples Not Analyzed for this compound.

NE = ESLs are not established.

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

Most recent data in bold.

FIGURES

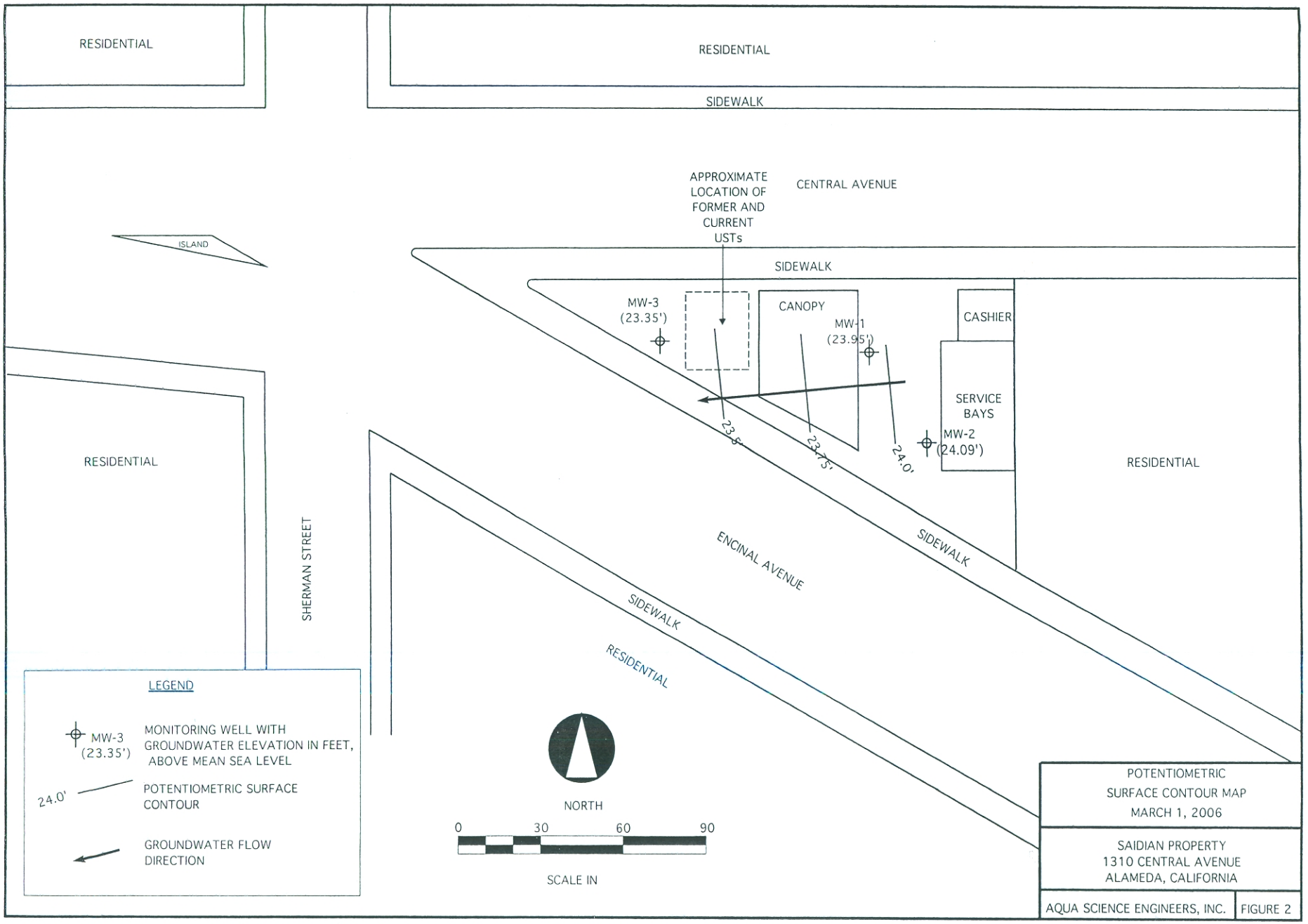


NORTH

LOCATION MAP

SAIDIAN PROPERTY
1310 CENTRAL AVENUE
ALAMEDA, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | Figure 1


RESIDENTIAL
RESIDENTIAL
SIDEWALK
APPROXIMATE LOCATION OF FORMER AND CURRENT USTs
CENTRAL AVENUE
ISLAND
SIDEWALK
MW-3 (23.35')
CANOPY
MW-1 (23.95')
CASHIER
SERVICE BAYS
MW-2 (24.09')
23.5'
23.75'
24.0'
RESIDENTIAL
RESIDENTIAL
SHERMAN STREET
ENCINAL AVENUE
SIDEWALK
SIDEWALK
RESIDENTIAL
LEGEND
MW-3 (23.35') MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET, ABOVE MEAN SEA LEVEL
24.0' POTENTIOMETRIC SURFACE CONTOUR
GROUNDWATER FLOW DIRECTION
NORTH
0 30 60 90
SCALE IN
POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 1, 2006
SAIDIAN PROPERTY 1310 CENTRAL AVENUE ALAMEDA, CALIFORNIA
AQUA SCIENCE ENGINEERS, INC.
FIGURE 2

APPENDIX A

Well Sampling Field Logs

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WELL SAMPLING FIELD LOG

PROJECT NAME	Alameda		
JOB NUMBER	3648	DATE OF SAMPLING	3/1/06
WELL ID.	MW-1	SAMPLER	dr
TOTAL DEPTH OF WELL	11.03	WELL DIAMETER	2
DEPTH TO WATER PRIOR TO PURGING	2.90		
PRODUCT THICKNESS	Ø		
DEPTH OF WELL CASING IN WATER	8.13		
NUMBER OF GALLONS PER WELL CASING VOLUME	1.39		
NUMBER OF WELL CASING VOLUMES TO BE REMOVE	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	4.15		
EQUIPMENT USED TO PURGE WELL	disposable bailer		
TIME EVACUATION STARTED	1600	TIME EVACUATION COMPLETED	1617
TIME SAMPLES WERE COLLECTED	1618		
DID WELL GO DRY	no	AFTER HOW MANY GALLONS	n a
VOLUME OF GROUNDWATER PURGED	4.15		
SAMPLING DEVICE	disposable bailer		
SAMPLE COLOR	gray	ODOR/SEDIMENT	light h.c./ some

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	73.7	6.52	801
2	73.5	6.53	785
3	73.4	6.54	780

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-1	5	40ml VOA	G,D,BTEX,5 oxys	Y

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME	Alameda		
JOB NUMBER	3648	DATE OF SAMPLING	3/1/06
WELL ID.	MW-2	SAMPLER	dr
TOTAL DEPTH OF WELL	12.23	WELL DIAMETER	2
DEPTH TO WATER PRIOR TO PURGING	3.09		
PRODUCT THICKNESS	0		
DEPTH OF WELL CASING IN WATER	9.14		
NUMBER OF GALLONS PER WELL CASING VOLUME	1.55		
NUMBER OF WELL CASING VOLUMES TO BE REMOVE	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	4.66		
EQUIPMENT USED TO PURGE WELL	disposable bailer		
TIME EVACUATION STARTED	1540	TIME EVACUATION COMPLETED	1551
TIME SAMPLES WERE COLLECTED	1552		
DID WELL GO DRY	no	AFTER HOW MANY GALLONS	n a
VOLUME OF GROUNDWATER PURGED	4.66		
SAMPLING DEVICE	disposable bailer		
SAMPLE COLOR	rust	ODOR/SEDIMENT	no / some

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	73.6	6.35	650
2	73.6	6.30	640
3	73.4	6.29	650

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-2	5	40ml VOA	G,D,BTEX,5 oxys	Y

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME	Alameda		
JOB NUMBER	3648	DATE OF SAMPLING	3/1/06
WELL ID.	MW-3	SAMPLER	dr
TOTAL DEPTH OF WELL	16.03	WELL DIAMETER	2
DEPTH TO WATER PRIOR TO PURGING	1.95		
PRODUCT THICKNESS	0		
DEPTH OF WELL CASING IN WATER	14.08		
NUMBER OF GALLONS PER WELL CASING VOLUME	2.4		
NUMBER OF WELL CASING VOLUMES TO BE REMOVE	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	7.2		
EQUIPMENT USED TO PURGE WELL	disposable bailer		
TIME EVACUATION STARTED	1622	TIME EVACUATION COMPLETED	1633
TIME SAMPLES WERE COLLECTED	1634		
DID WELL GO DRY	no	AFTER HOW MANY GALLONS	na
VOLUME OF GROUNDWATER PURGED	7.2		
SAMPLING DEVICE	disposable bailer		
SAMPLE COLOR	grey	ODOR/SEDIMENT	h.c/ sheen / some

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	73.5	6.50	750
2	73.4	6.48	740
3	73.4	6.48	740

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-3	5	40ml VOA	G,D,BTEX,5 oxys	Y

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation

KIFF Analytical LLC

Report Number : 48703
Date : 3/9/2006

David Rains
Aqua Science Engineers, Inc.
208 West El Pintado Rd.
Danville, CA 94526

Subject : 3 Water Samples
Project Name : Alameda Gas
Project Number :

Dear Mr. Rains,

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,

Joel Kiff

KIFF Analytical LLC

Report Number : 48703
Date : 3/9/2006

Subject : 3 Water Samples
Project Name : Alameda Gas
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. These hydrocarbons are higher boiling than typical diesel fuel.

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 48703

Date : 3/9/2006

Project Name : **Alameda Gas**

Project Number :

Sample : **MW-1** Matrix : Water Lab Number : 48703-01

Sample Date :3/1/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**8.1**	1.5	ug/L	EPA 8260B	3/4/2006
Toluene	**9.4**	1.5	ug/L	EPA 8260B	3/4/2006
Ethylbenzene	**370**	1.5	ug/L	EPA 8260B	3/4/2006
Total Xylenes	**660**	1.5	ug/L	EPA 8260B	3/4/2006
Methyl-t-butyl ether (MTBE)	**1.8**	1.5	ug/L	EPA 8260B	3/4/2006
Diisopropyl ether (DIPE)	**< 1.5**	1.5	ug/L	EPA 8260B	3/4/2006
Ethyl-t-butyl ether (ETBE)	**< 1.5**	1.5	ug/L	EPA 8260B	3/4/2006
Tert-amyl methyl ether (TAME)	**< 1.5**	1.5	ug/L	EPA 8260B	3/4/2006
Tert-Butanol	**< 6.0**	6.0	ug/L	EPA 8260B	3/4/2006
TPH as Gasoline	**6500**	150	ug/L	EPA 8260B	3/4/2006
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	3/4/2006
4-Bromofluorobenzene (Surr)	96.1		% Recovery	EPA 8260B	3/4/2006
TPH as Diesel	**< 4000**	4000	ug/L	M EPA 8015	3/6/2006
Octacosane (Diesel Surrogate)	86.6		% Recovery	M EPA 8015	3/6/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 48703

Date : 3/9/2006

Project Name : **Alameda Gas**

Project Number :

Sample : **MW-2** Matrix : Water Lab Number : 48703-02

Sample Date :3/1/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/4/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	3/4/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/4/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/4/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/4/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/4/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/4/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	3/4/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	3/4/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/4/2006
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	3/4/2006
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	3/4/2006
TPH as Diesel	**920**	50	ug/L	M EPA 8015	3/6/2006
Octacosane (Diesel Surrogate)	88.6		% Recovery	M EPA 8015	3/6/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 48703

Date : 3/9/2006

Project Name : **Alameda Gas**

Project Number :

Sample : **MW-3** Matrix : Water Lab Number : 48703-03

Sample Date :3/1/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**410**	1.5	ug/L	EPA 8260B	3/6/2006
Toluene	**24**	1.5	ug/L	EPA 8260B	3/6/2006
Ethylbenzene	**42**	1.5	ug/L	EPA 8260B	3/6/2006
Total Xylenes	**13**	1.5	ug/L	EPA 8260B	3/6/2006
Methyl-t-butyl ether (MTBE)	**360**	1.5	ug/L	EPA 8260B	3/6/2006
Diisopropyl ether (DIPE)	**< 1.5**	1.5	ug/L	EPA 8260B	3/6/2006
Ethyl-t-butyl ether (ETBE)	**< 1.5**	1.5	ug/L	EPA 8260B	3/6/2006
Tert-amyl methyl ether (TAME)	**8.0**	1.5	ug/L	EPA 8260B	3/6/2006
Tert-Butanol	**58**	7.0	ug/L	EPA 8260B	3/6/2006
TPH as Gasoline	**8400**	150	ug/L	EPA 8260B	3/6/2006
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	3/6/2006
4-Bromofluorobenzene (Surr)	94.5		% Recovery	EPA 8260B	3/6/2006
TPH as Diesel	**< 2000**	2000	ug/L	M EPA 8015	3/6/2006
Octacosane (Diesel Surrogate)	85.4		% Recovery	M EPA 8015	3/6/2006

Approved By: Joel Kiff

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

Report Number : 48703

Date : 3/9/2006

QC Report : Method Blank Data

Project Name : **Alameda Gas**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	3/6/2006
Octacosane (Diesel Surrogate)	82.2		%	M EPA 8015	3/6/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/4/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/4/2006
Toluene - d8 (Surr)	98.6		%	EPA 8260B	3/4/2006
4-Bromofluorobenzene (Surr)	110		%	EPA 8260B	3/4/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/6/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/6/2006
Toluene - d8 (Surr)	103		%	EPA 8260B	3/6/2006
4-Bromofluorobenzene (Surr)	95.1		%	EPA 8260B	3/6/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 48703

Date : 3/9/2006

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Alameda Gas**

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	1060	1130	ug/L	M EPA 8015	3/6/06	106	113	6.65	70-130	25
Benzene	48703-02	<0.50	38.5	39.6	40.5	41.6	ug/L	EPA 8260B	3/4/06	105	105	0.179	70-130	25
Toluene	48703-02	<0.50	38.5	39.6	39.4	40.8	ug/L	EPA 8260B	3/4/06	102	103	0.508	70-130	25
Tert-Butanol	48703-02	<5.0	192	198	196	197	ug/L	EPA 8260B	3/4/06	102	99.7	2.04	70-130	25
Methyl-t-Butyl Ether	48703-02	<0.50	38.5	39.6	38.0	39.5	ug/L	EPA 8260B	3/4/06	98.9	99.7	0.835	70-130	25
Benzene	48709-07	2.4	40.0	40.0	41.9	39.1	ug/L	EPA 8260B	3/6/06	98.8	91.9	7.20	70-130	25
Toluene	48709-07	0.53	40.0	40.0	40.2	38.5	ug/L	EPA 8260B	3/6/06	99.2	95.0	4.34	70-130	25
Tert-Butanol	48709-07	<5.0	200	200	210	206	ug/L	EPA 8260B	3/6/06	105	103	2.13	70-130	25
Methyl-t-Butyl Ether	48709-07	<0.50	40.0	40.0	39.6	39.3	ug/L	EPA 8260B	3/6/06	99.1	98.2	0.854	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530.297.4800

Report Number : 48703

Date : 3/9/2006

QC Report : Laboratory Control Sample (LCS)

Project Name : **Alameda Gas**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/4/06	105	70-130
Toluene	40.0	ug/L	EPA 8260B	3/4/06	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/4/06	99.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/4/06	101	70-130
Benzene	40.0	ug/L	EPA 8260B	3/6/06	98.2	70-130
Toluene	40.0	ug/L	EPA 8260B	3/6/06	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/6/06	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/6/06	106	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300, Davis, CA 95618 530.297.4800

78163

ASE
AQUA SCIENCE ENGINEERS
208 W. El Pintado Road
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

Analytical Laboratory Name: Kiff

Project Name: Alameda Gas

Sample Location: Alameda CA

Sampled by: David Rains

Sampler Signature:

Sample ID	Sample Type: Grab	Sample Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Other	Matrix: Other	Method Preserved: Cold (4° C)	Method Preserved: HCL	Method Preserved: HNO_3	Method Preserved: Other	Number of Containers	Sampling: Date	Sampling: Time	Type of Analysis to be Performed: TPH-D, TPH-G, BTEX, 5 oxys	Type of Analysis to be Performed: EDF	Other	Turnaround Time: Standard	Turnaround Time: 1 day	Turnaround Time: 2 day	Turnaround Time: 5 day	Turnaround Time: Other
MW-1	X		X				X	X			5	3-1-04	1618	X	X						
MW-2	↓		↓				↓	↓			↓	↓	1552	↓	↓		↓				
MW-3	↓		↓				↓	↓			↓	↓	1434	↓	↓						

Total # of containers: 15

Relinquished by:	Date	Time	Received by:	Date	Time
David Rains	3-3-04				
			Thomas Phelps Kiff Analytical LLC	030304	1130

Comments:

Sample Receipt
Temp °C 1.8 Therm. ID# FRY
Initial TJA Date 030304
Time 1645 Coolant present: Y / N