



February 7, 2005

Alameda County
FEB 15 2005
Environmental Health

QUARTERLY GROUNDWATER MONITORING REPORT
DECEMBER 2004 GROUNDWATER SAMPLING
ASE JOB NO. 3934

at

Albany Hill Mini Mart
800 San Pablo Avenue
Albany, CA 94706

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

Albany Hill Mini Mart
800 San Pablo Avenue
Albany, CA 94706

Responsible Party

Dr. Joginder Sikand
1300 Ptarmigan Drive #1
Walnut Creek, CA 94595

Environmental Consulting Firm

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

Agency Review

Alameda County Health
Care Services Agency (ACHCSA)
1131 Harbor Bay Pkwy
Suite 250
Alameda, CA 94502
Contact: Bob Schultz
(510) 567-6700

California Regional Water
Quality Control Board (RWQCB)
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612
Contact: Ms. Betty Graham
(510) 622-2433

The following is a report detailing the results of the December 2004 quarterly groundwater sampling at the Albany Hill Mini Mart Property. This sampling was conducted as required by the ACHCSA and RWQCB. ASE has prepared this report on behalf of Dr. Joginder Sikand, the property owner and responsible party.

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On December 7, 2004, ASE measured the depth to groundwater in all nine site monitoring wells using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. Sheen and free-floating hydrocarbons were not observed in any of the monitoring wells. Groundwater elevation data is presented in Table One. A groundwater potentiometric surface map is presented as Figure 2. The groundwater flow direction beneath the site is generally to the east with a gradient of between 0.02 and 0.06 ft/ft..

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

On December 7, 2004, ASE collected groundwater samples from all nine site monitoring wells. Prior to sampling, monitoring wells MW-1 through MW-8 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 these parameters stabilized. Monitoring well MW-9 was purged dry before three volumes could be removed. The water level was allowed to recover to 80% of the initial water level prior to sampling. Groundwater samples were collected from each well using the same polyethylene bailers and 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. The samples were capped without headspace, labeled, and placed in coolers with wet ice for transport to Kiff Analytical of Davis, California (ELAP #2236) under appropriate chain-of-custody documentation. Petroleum hydrocarbon odors were noted during the purging and sampling of all monitoring wells with exception of MW-5. Well sampling field logs are presented in Appendix A.

The well purge water was placed into a 55-gallon steel drum and labeled for temporary storage until proper disposal could be arranged.

The groundwater samples were analyzed by Kiff for total petroleum hydrocarbons as diesel (TPH-D) by EPA Method 3550/8015M. The samples were also analyzed for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, and total xylenes (collectively known as BTEX), fuel oxygenates, and lead scavengers by EPA Method 8260B. The analytical results for this and a previous sampling event are summarized in Table Two. Additionally, Table Two includes analytical data collected

and compiled by Advanced Assessment and Remediation (AARS), the previous consultant for the site. The most recent certified analytical report and chain-of-custody documentation are included as Appendix B.

4.0 RESULTS AND CONCLUSIONS

Dissolved hydrocarbon concentrations in groundwater at the site remain very similar to those observed during the previous sampling event conducted by ASE, with the exception of monitoring well MW-7, which showed a significant decrease from the previous results.

TPH-G and/or BTEX concentrations in all monitoring wells, with the exception of MW-2, exceeded the Environmental Screening Levels (ESLs) 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 July 2003.

5.0 RECOMMENDATIONS

ASE recommends continued groundwater monitoring on a quarterly basis. The next groundwater sampling is scheduled for March 2005.

Additionally, ASE has been awaiting the assignment of a new ACHCSA caseworker to discuss further soil and groundwater assessment required at the site. ASE will continue assessment activities at the site during the next quarter.

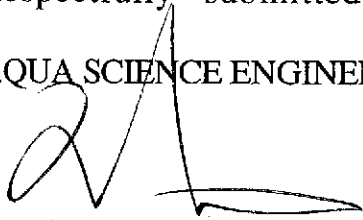
6.0 REPORT LIMITATIONS

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 an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

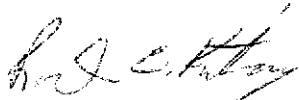
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

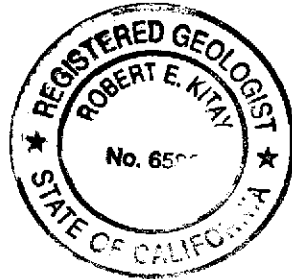
AQUA SCIENCE ENGINEERS, INC.



Damian Hriciga
Project Geologist



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



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

cc: Mr. Bob Schultz, ACHCSA
Ms. Betty Graham, RWQCB

TABLE ONE
 Groundwater Elevation Data
 Albany Hill Mini Mart
 800 San Pablo Avenue, Albany, CA

Well ID	Date of Measurement	Top of Casing Elevation* (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1	8/6/99	101.68	11.95	89.73
	11/5/99		12.72	88.96
	2/7/00		10.34	91.34
	5/5/00		10.59	91.09
	8/3/00		11.75	89.93
	11/8/00		11.67	90.01
	2/8/01		11.20	90.48
	6/7/01		11.35	90.33
	9/7/01		11.71	89.97
	12/13/01		10.67	91.01
	6/13/02		11.42	90.26
	9/11/02		12.42	89.26
	2/14/03		46.42	10.69
	9/10/04	13.83		32.59
12/7/04	12.18	34.24		
MW-2	8/6/99	101.57	10.83	90.74
	11/5/99		11.66	89.91
	2/7/00		9.23	92.34
	5/5/00		9.54	92.03
	8/3/00		10.69	90.88
	11/8/00		10.62	90.95
	2/8/01		10.17	91.40
	6/7/01		10.30	91.27
	9/7/01		10.65	90.92
	12/13/01		9.65	91.92
	6/13/02		10.37	91.20
	9/11/02		11.32	90.25
	2/14/03		45.31	9.59
	9/10/04	11.78		33.53
12/7/04	11.13	34.18		

TABLE ONE
 Groundwater Elevation Data
 Albany Hill Mini Mart
 800 San Pablo Avenue, Albany, CA

Well ID	Date of Measurement	Top of Casing Elevation* (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-3	8/6/99	100.33	10.58	89.75
	11/5/99		11.39	88.94
	2/7/00		9.05	91.28
	5/5/00		9.29	91.04
	8/3/00		10.43	89.90
	11/8/00		10.33	90.00
	2/8/01		9.94	90.39
	6/7/01	10.04	90.29	
	9/7/01	10.31	90.02	
	12/13/01	9.38	90.95	
	6/13/02	10.03	90.30	
	9/11/02	11.02	89.31	
	2/14/03	45.08	9.40	35.68
	9/10/04		12.51	32.57
12/7/04	11.86		33.22	
MW-4	6/13/02	100.05	10.18	89.87
	9/11/02		11.12	88.93
	2/14/03	45.20	9.51	35.69
	9/10/04		11.59	33.61
	12/7/04		10.91	34.29
MW-5	6/13/02	98.37	8.88	89.49
	9/11/02		9.95	88.42
	2/14/03	44.12	8.66	35.46
	9/10/04		10.26	33.86
	12/7/04		10.79	33.33
MW-6	6/13/02	99.36	8.85	90.51
	9/11/02		9.82	89.54
	2/14/03	43.88	8.21	35.67
	9/10/04		10.33	33.55
	12/7/04		9.83	34.05

TABLE ONE
 Groundwater Elevation Data
 Albany Hill Mini Mart
 800 San Pablo Avenue, Albany, CA

Well ID	Date of Measurement	Top of Casing Elevation* (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-7	6/13/02	100.96	10.95	90.01
	9/11/02		11.90	89.06
	2/14/03	45.59	10.25	35.34
	9/10/04		12.35	33.24
	12/7/04		11.42	34.17
MW-8	6/13/02	100.54	10.57	89.97
	9/11/02		11.53	89.01
	2/14/03	45.59	9.98	35.61
	9/10/04		11.98	33.61
	12/7/04		11.42	34.17
MW-9	2/14/03	46.86	10.84	36.02
	9/10/04		12.97	33.89
	12/7/04		12.84	34.02

Notes:

Data prior to September 10, 2004, including survey data, is based on tables compiled by AARS.

* Top of casing elevations were initially surveyed to an arbitrary benchmark. The elevations were resurveyed on November 11, 2002 with respect mean sea level.

TABLE TWO
 Summary of Analytical Results for GROUNDWATER Samples
 Albany Hill Mini Mart
 800 San Pablo Avenue, Albany, CA
 All results are in parts per billion (ppb)

Well ID or Sample Point	Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TAME	TBA	MTBE	Other VOCs
MW-1	8/6/99	1,500	1,200	4.3	2.9	3.1	28	--	--	ND	--
	11/5/99	1,800	1,400	5.1	3.2	8.9	33	--	--	ND	--
	2/7/00	1,100	890	3.3	1.9	5.6	21	--	--	ND	--
	5/7/00	970	650	2.9	1.7	4.9	18	--	--	ND	--
	8/3/00	1,200	270*	190	43	41	160	--	--	360	--
	11/8/00	4,200	230*	990	200	130	560	--	--	840**	--
	2/8/01	2,800	380*	630	130	51	250	--	--	390	--
	6/7/01	650	190	97	13	20	62	--	--	320	--
	9/7/01	970	400	260	17	44	140	--	--	460	--
	12/13/01	291	< 50	91.7	1.4	17.4	7.2	--	--	499	--
	6/13/02	5,120	2,160*	1,860	22	316	318	--	--	325	--
	11/11/02	824	< 50	216	< 5	22	20	--	--	290	--
	2/14/03	1,783	590*	546	5	90	52	--	--	321	--
	9/10/04	900	82	210	8.4	52	23	< 0.5	5.1	220	< 0.5
	12/7/04	540	< 80	130	3.1	24	14	< 0.5	< 5.0	240	< 0.5
	MW-2	8/6/99	ND	340	ND	ND	ND	ND	--	--	ND
11/5/99		ND	420	ND	ND	ND	0.7	--	--	ND	--
2/7/00		ND	310	ND	ND	ND	0.6	--	--	ND	--
5/7/00		ND	280	ND	ND	ND	< 1	--	--	ND	--
8/3/00		460	70*	79	3	43	8	--	--	3,300	--
11/8/00		200	120	57	2	13	8	--	--	3,000	--
2/8/01		290	80	50	1	0.6	4	--	--	3,100	--
6/7/01		210	80	18	0.6	3	5	--	--	2,000	--
9/7/01		230	ND	51	ND	8	8	--	--	2,400	--
12/13/01		172	ND	53	1.2	7.7	8.4	--	--	1,780	--
6/13/02		86	< 50	6	6.7	1.1	4.5	--	--	1,830	--
11/11/02		1,040	< 50	5	1	< 1	5	--	--	1,250	--
2/14/03		82	< 50	8	< 1	1	< 3	--	--	1,520	--
9/10/04		< 100	72	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	620	< 1.0
12/7/04		< 150	86	17	< 1.5	< 1.5	< 1.5	< 1.5	< 7.0	540	< 1.5
MW-3		8/6/99	ND	ND	ND	ND	ND	ND	--	--	ND
	11/5/99	92	54	ND	ND	0.6	1.7	--	--	ND	--
	2/7/00	120	71	ND	0.6	0.8	2.2	--	--	ND	--
	5/7/00	100	68	ND	ND	0.7	1.9	--	--	ND	--
	8/3/00	910	300*	220	9	35	16	--	--	11,000**	--
	11/8/00	990	200	320	0.8	18	9	--	--	8,000	--
	2/8/01	990	110	180	21	7	24	--	--	5,200**	--
	6/7/01	370	140	62	4	8	13	--	--	6,600**	--
	9/7/01	460	ND	87	1	11	25	--	--	9,400**	--
	12/13/01	251	ND	66.8	0.9	2.6	8.4	--	--	6,610	--
	6/13/02	3,630	< 50	41	60	41	187	--	--	8,820**	--
	11/11/02	6,210	< 50	150	< 1	5	< 3	--	--	7,770	--
	2/14/03	176	< 50	31	< 1	2	< 3	--	--	5,040	--
	9/10/04	< 1,000	140	110	< 10	< 10	21	20	200	4,400	< 10
	12/7/04	1,000	150	310	19	24	50	21	< 100	4,000	< 10

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 800 San Pablo Avenue, Albany, CA
 All results are in parts per billion (ppb)

Well ID or Sample Point	Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	MTBE	Other VOCs
MW-4	6/13/02	4,460	1,500*	425	409	115	730	--	--	32	--
	11/11/02	5,150	2,380*	2,010	74	399	252	--	--	<20	--
	2/14/03	6,360	2,410*	1,560	82	274	573	--	--	<1	--
	9/10/04	1,600	180	370	6.5	68	93	<1.0	10	13	1.1 (DPE)
	12/7/04	1,900	<200	450	8.2	72	100	<0.9	5.4	9.5	<0.9
MW-5	6/13/02	536	<50	6.4	0.6	22	23	--	--	11	--
	11/11/02	3,270	1,230*	<1	<1	28	8	--	--	<1	--
	2/14/03	1,260	610*	9	7	22	5	--	--	<1	--
	9/10/04	1,300	150	2.4	<0.50	0.77	<0.50	<0.50	<5.0	<0.50	<0.50
	12/7/04	1,000	<200	4.1	<0.50	1.4	<0.50	<0.50	<5.0	<0.50	<0.50
MW-6	6/13/02	2,980	1,460*	31	2.3	3.8	12	--	--	310	--
	11/11/02	3,570	1,210*	336	5	<5	<15	--	--	95	--
	2/14/03	3,770	1,620*	429	12	7	10	--	--	122	--
	9/10/04	<1,000	390	2.7	<0.50	<0.50	<0.50	2.3	48	290	<0.50
	12/7/04	1,800	<600	32	1.7	<0.50	1.1	2.2	49	160	<0.50
MW-7	6/13/02	24,100	1,570*	2,310	657	945	5,430	--	--	951	--
	11/11/02	4,760	2,160*	1,820	21	316	1,141	--	--	702	--
	2/14/03	4,320	2,380*	1,020	7	223	293	--	--	1,410	--
	9/10/04	4,800	<300	640	16	250	490	<1.5	31	590	<1.5
	12/7/04	990	<300	140	3.4	49	70	4.0	<20	960	<2.0
MW-8	6/13/02	20,000	7,760*	2,200	1,140	1,050	4,090	--	--	12,000	--
	11/11/02	5,010	2,010*	187	<1	15	<3	--	--	16,600	--
	2/14/03	1,980	<50	607	6	113	40	--	--	11,500	--
	9/10/04	<2,000	200	110	<20	26	49	25	<200	8,600	<20
	12/7/04	2,000	280	420	<10	40	61	31	100	6,800	<10
MW-9	6/27/02	19,000	--	1,430	1,750	501	5,410	--	--	<0.5	--
	11/11/02	19,000	13,200*	3,390	4,540	1,020	9,050	--	--	549	--
	2/14/03	21,300	8,200*	1,700	2,200	701	4,970	--	--	<1	--
	9/10/04	12,000	<1,500	890	37	280	2,000	<5.0	<5.0	<5.0	<5.0
	12/7/04	13,000	<1,500	950	580	480	2,900	<5.0	<5.0	<5.0	<5.0

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 Summary of Analytical Results for GROUNDWATER Samples
 Albany Hill Mini Mart
 800 San Pablo Avenue, Albany, CA
 All results are in parts per billion (ppb)

Well ID or Sample Point	Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	MTBE	Other VOCs
BH-A 20'-22'	8/24/04	290	120*	5.3	<0.5	9.9	16	<0.5	8.1	<0.5	<0.5
BH-A 25'-27'	8/24/04	420	920*	18	1.1	29	50	<0.5	7.1	<0.5	<0.5
BH-B 23'-25'	8/20/04	13,000	<3,000	420	<2.5	530	740	<2.5	<25	3.2	<2.5
BH-B 33'-35'	8/20/04	530	<50	0.99	0.60	0.53	0.69	<0.5	<5.0	<0.5	<0.5
BH-C 25'-27'	8/24/04	<500	110	18	<5.0	<5.0	<5.0	7.5	<50	2,000	<5.0
BH-D 10'-12'	8/25/04	12,000	<80,000	1,600	2,300	190	1,500	<7.0	210	87	<7.0
BH-D 23'-25'	8/26/04	170	51	5.2	8.8	12	6.9	2.0	15	620	<0.90
BH-E 20'-22'	8/25/04	<700	78	<7.0	<7.0	<7.0	<7.0	21.0	<40	3,300	<7.0
BH-F 23'-25'	8/23/04	5,400	<800	210	320	90	480	750	41	1,500	<2.5
BH-G 23'-25'	8/20/04	7,300	<400	260	660	180	960	13	<100	5,000	<10
BH-G 28'-30'	8/24/04	<1,000	160	47	30	<10	10	14	<100	4,800	<10
BH-H 23'-25'	8/20/04	2,300	<300	44	86	79	340	<2.5	<25	1,400	<2.5
BH-H 32'-34'	8/20/04	<500	120	13	12	<5.0	7.2	<5.0	<50	1,900	<5.0
BH-I 25'-27'	8/26/04	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
BH-J 25'-27'	8/26/04	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
BH-K 25'-27'	8/26/04	<50	100	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
BH-L 25'-27'	8/27/04	320	70	<0.5	0.60	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
BH-M 22'-24'	9/9/04	730	2,000	94	4.0	36	100	<0.5	<5.0	<0.5	1.4 (DIPE)
BH-N 20'-22'	9/15/04	3,200	<1,000	220	250	88	430	33	<50	4400	<10
BH-N 26'-28'	10/25/04	<1,000	190	15	<10	<10	<10	36	<50	5300	<10
BH-O 25'-27'	9/15/04	1,900	1,500*	150	42	82	340	21	<5.0	140	<0.5
BH-P 23'-25'	10/25/04	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
BH-Q 7'-9'	10/25/04	<50	420	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
BH-Q 25'-27'	10/25/04	320	500	0.58	0.74	<0.5	0.62	<0.5	<5.0	20	<0.5
ESL		500	640	46	130	280	13	NE	NE	1,800	Varies

Notes:

Data prior to August 2004 is based on a table compiled by AARS - A&E has not checked results against original laboratory reports.

* Does not match diesel pattern

** Confirmed by GC/MS method 8260

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

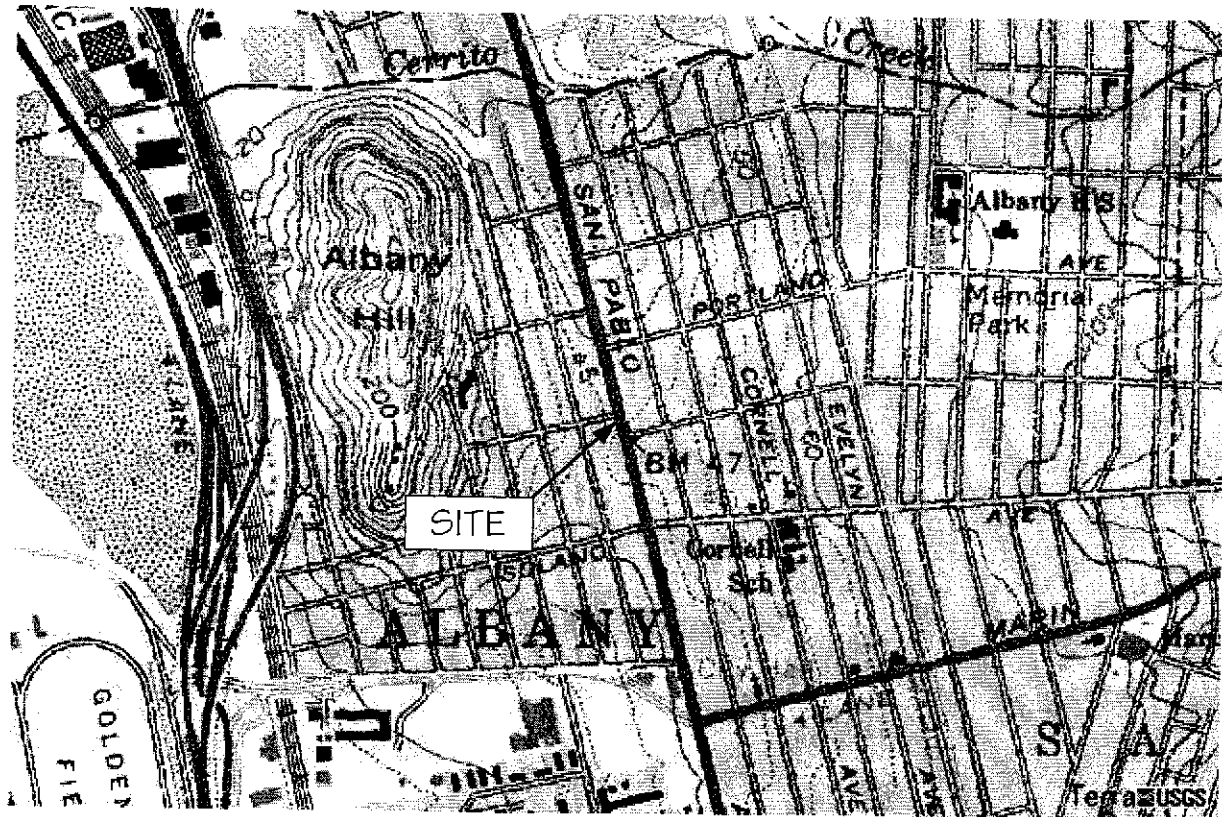
Most recent concentrations are in Bold.

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

NE indicates that no ESL has been established for this compound.



NORTH



LOCATION MAP

ALBANY HILL MINI MART
800 SAN PABLO AVENUE
ALBANY, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

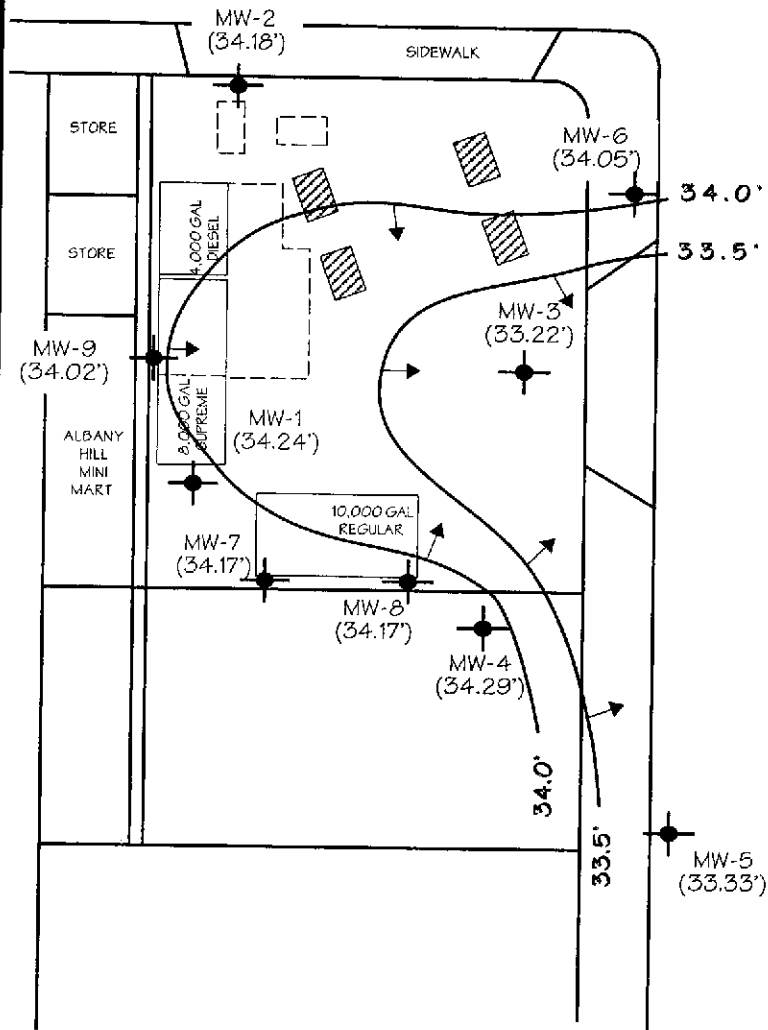
Figure 1



NORTH

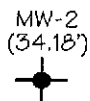
SCALE: 1" = 20'

WASHINGTON AVENUE



SAN PABLO AVENUE

LEGEND



MW-2 (34.18') MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET



GROUNDWATER ELEVATION COUNTOUR LINE WITH FLOW DIRECTION



APPROXIMATE FORMER UST LOCATION AND AREA OF EXCAVATION

POTENTIOMETRIC
SURFACE CONTOUR MAP
12/7/2004

ALBANY HILL MINI MART
800 SAN PABLO AVENUE
ALBANY, CALIFORNIA

AQUA SCIENCE ENGINEERS

Figure 2

APPENDIX A

Well Sampling Field Logs



WELL SAMPLING FIELD LOG

Project Name and Address: ARCADE HILL
 Job #: 3934 Date of sampling: 12/7/04
 Well Name: MW-1 Sampled by: OIF
 Total depth of well (feet): 24.2 Well diameter (inches): 2
 Depth to water before sampling (feet): 12.18
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 12.02
 Number of gallons per well casing volume (gallons): 1.9
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 5.7
 Equipment used to purge the well: BAILER
 Time Evacuation Began: 1500 Time Evacuation Finished: 1515
 Approximate volume of groundwater purged: 5.7
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1520
 Depth to water at time of sampling: 12.70
 Percent recovery at time of sampling: -
 Samples collected with: BAILER
 Sample color: GREY Odor: SL
 Description of sediment in sample: SILT

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
0	64.9	7.19	1210
1.9	65.3	7.11	1255
3.8	65.2	7.11	1300
5.7	65.1	7.10	1363

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-1	3	400ml VOA	ACC	Y	



WELL SAMPLING FIELD LOG

Project Name and Address: ACBANK HILL
 Job #: 3934
 Well Name: MW-2
 Date of sampling: 12/1/07
 Total depth of well (feet): 24.8
 Sampled by: DH
 Depth to water before sampling (feet): 11.13
 Well diameter (inches): 2
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): _____
 Number of gallons per well casing volume (gallons): 13.67
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 66
 Equipment used to purge the well: ISMLER
 Time Evacuation Began: 1605
 Time Evacuation Finished: 1625
 Approximate volume of groundwater purged: 66
 Did the well go dry?: NL
 After how many gallons: _____
 Time samples were collected: 1630
 Depth to water at time of sampling: 11.58
 Percent recovery at time of sampling: _____
 Samples collected with: BALER
 Sample color: CLC
 Odor: SL
 Description of sediment in sample: SILT

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
0	66.2	7.03	585
2.2	66.8	7.00	642
4.4	65.9	7.08	650
6.6	65.4	7.07	655

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Used?	Analysis
MW-2	5	40 mL VOA	HLL	Y	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____



WELL SAMPLING FIELD LOG

Project Name and Address: ALBANY HILL
 Job #: 3934 Date of sampling: 12/7/04
 Well Name: MW-3 Sampled by: DL
 Total depth of well (feet): 23.8 Well diameter (inches): 2
 Depth to water before sampling (feet): 11.86
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 11.94
 Number of gallons per well casing volume (gallons): 1.9
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 5.7
 Equipment used to purge the well: BATTERY
 Time Evacuation Began: 1525 Time Evacuation Finished: 1540
 Approximate volume of groundwater purged: 5.7
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1545 16.50
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: BATTERY
 Sample color: - Odor: NO O/C
 Description of sediment in sample: -

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
0	68.0	6.75	1159
1.9	68.3	6.71	1290
3.8	67.1	6.71	1320
5.7	66.8	6.71	1327

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	iced?	Analysis
MW-3	5	10 ml JWA	17U	Y	



WELL SAMPLING FIELD LOG

Project Name and Address: AC BANK HILL
 Job #: 3934 Date of sampling: 12/7/01
 Well Name: MW-4 Sampled by: PA
 Total depth of well (feet): 24.5 Well diameter (inches): 10.91
 Depth to water before sampling (feet): 13.59
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): _____
 Number of gallons per well casing volume (gallons): 2.2
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 6.6
 Equipment used to purge the well: BAILER
 Time Evacuation Began: 1320 Time Evacuation Finished: 1335
 Approximate volume of groundwater purged: 6.6
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1340
 Depth to water at time of sampling: 11.07
 Percent recovery at time of sampling: _____
 Samples collected with: BAILER
 Sample color: CLUE Odor: S. R. OAK
 Description of sediment in sample: SILT

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
0	66.4	6.52	2691
2.2	66.7	6.63	2505
11.4	66.6	6.68	2388
6.6	66.6	6.70	2355

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres Iced?	Analysis
MW-4	3	40 ml Vial	Yes	



WELL SAMPLING FIELD LOG

Project Name and Address: ALBANE HILL
 Job #: 3934
 Well Name: MW-5 Date of sampling: 12/7/07
 Total depth of well (feet): 22.2 Sampled by: PK
 Depth to water before sampling (feet): 10.79 Well diameter (inches): 2
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): 11.41
 Number of gallons per well casing volume (gallons): 1.8
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 5.4
 Equipment used to purge the well: BATLER
 Time Evacuation Began: 1315 Time Evacuation Finished: 1400
 Approximate volume of groundwater purged: 5.5
 Did the well go dry?: NO After how many gallons: _____
 Time samples were collected: 1405
 Depth to water at time of sampling: 13.20
 Percent recovery at time of sampling: _____
 Samples collected with: BATLER
 Sample color: Clear Odor: _____
 Description of sediment in sample: Silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
0	67.5	6.84	636
1.8	67.7	6.92	517
3.8	67.7	6.93	501
5.4	67.7	6.93	489

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-5	5	40 mL VOA	HEC	Y	



WELL SAMPLING FIELD LOG

Project Name and Address: ALBANY HILL
 Job #: 3934 Date of sampling: 12/7/01
 Well Name: MW-6 Sampled by: DIF
 Total depth of well (feet): 24.7 Well diameter (inches): 2
 Depth to water before sampling (feet): 9.83
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 14.87
 Number of gallons per well casing volume (gallons): 2.4
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 7.2
 Equipment used to purge the well: BATLER
 Time Evacuation Began: 1635 Time Evacuation Finished: 1700
 Approximate volume of groundwater purged: -
 After how many gallons: 5
 Did the well go dry?: YES
 Time samples were collected: 1705
 Depth to water at time of sampling: 21.5
 Percent recovery at time of sampling: -
 Samples collected with: BATLER
 Sample color: ORANGE Odor: ST
 Description of sediment in sample: SILT

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
0	67.0	6.71	841
2.4	67	6.77	870
4.8	66	6.80	951
7.2	66	7.80	960

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	iced?	Analysis
MW-6	5	400 mL UCA	HLL	Y	



WELL SAMPLING FIELD LOG

Project Name and Address: AR BANY HILL
 Job #: 3934 Date of sampling: 2/7/01
 Well Name: MW-8 Sampled by: DJ
 Total depth of well (feet): 19.2 Well diameter (inches): 11.42
 Depth to water before sampling (feet): 7
 Thickness of floating product if any: 7.78
 Depth of well casing in water (feet): 1.3
 Number of gallons per well casing volume (gallons): 3
 Number of well casing volumes to be removed: 39
 Req'd volume of groundwater to be purged before sampling (gallons): 1135
 Equipment used to purge the well: BAILER Time Evacuation Finished: 1:45
 Time Evacuation Began: NO After how many gallons: 4
 Approximate volume of groundwater purged: 1450
 Did the well go dry?: NO Time samples were collected: 12:01
 Depth to water at time of sampling: BAILER
 Percent recovery at time of sampling: NO Odor: NO ST
 Samples collected with: OLIVE
 Sample color: SILT
 Description of sediment in sample:

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
0	66.1	6.85	1596
1.3	66.1	6.86	1590
2.6	66.2	6.86	1674
3.9	66.3	6.86	1676

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	iced?	Analysis
MW-8	5	40 ml vial	HCL	✓	



WELL SAMPLING FIELD LOG

Project Name and Address: AC SAWYER HILL
 Job #: 3134 Date of sampling: 12/7/04
 Well Name: MW-9 Sampled by: DH
 Total depth of well (feet): 16.84 Well diameter (inches): 2
 Depth to water before sampling (feet): 12.84
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 3.96
 Number of gallons per well casing volume (gallons): 7
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 21
 Equipment used to purge the well: BALLO
 Time Evacuation Began: 1550 Time Evacuation Finished: 1555
 Approximate volume of groundwater purged: 17
 Did the well go dry?: YES After how many gallons: 17
 Time samples were collected: 1600
 Depth to water at time of sampling: 12.89
 Percent recovery at time of sampling: _____
 Samples collected with: CCR SA-100
 Sample color: _____ Odor: SC
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>0</u>	<u>65.5</u>	<u>7.09</u>	<u>902</u>
<u>1.7</u>	<u>65.3</u>	<u>7.05</u>	<u>902</u>
<u>2.1</u>			

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	iced?	Analysis
<u>MW-9</u>	<u>3</u>	<u>40 ml vial</u>	<u>ATC</u>	<u>Y</u>	

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation



Report Number : 41391

Date : 12/18/2004

Subject : 9 Water Samples
Project Name : ALBANY HILL (A.H.)
Project Number : 3934

Case Narrative

Tert-Butanol results for sample MW-8 may be biased slightly high and are flagged with a 'J'. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. We consider this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in ratios of over 20:1.

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-9, MW-3 for the analyte Benzene were affected by the analyte concentrations already present in the un-spiked sample.

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for samples MW-1, MW-4, MW-5, MW-6, MW-7 and MW-9.

Approved By:

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 41391

Date : 12/18/2004

Project Name : ALBANY HILL (A.H.)

Project Number : 3934

Sample : MW-1

Matrix : Water

Lab Number : 41391-01

Sample Date :12/7/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	130	0.50	ug/L	EPA 8260B	12/15/2004
Toluene	3.1	0.50	ug/L	EPA 8260B	12/15/2004
Ethylbenzene	24	0.50	ug/L	EPA 8260B	12/15/2004
Total Xylenes	14	0.50	ug/L	EPA 8260B	12/15/2004
Methyl-t-butyl ether (MTBE)	240	0.50	ug/L	EPA 8260B	12/15/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/15/2004
TPH as Gasoline	540	50	ug/L	EPA 8260B	12/15/2004
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Toluene - d8 (Surr)	88.5		% Recovery	EPA 8260B	12/15/2004
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	12/15/2004
Dibromofluoromethane (Surr)	116		% Recovery	EPA 8260B	12/15/2004
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	12/15/2004
TPH as Diesel	< 80	80	ug/L	M EPA 8015	12/15/2004
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	12/15/2004

Approved By:

Joel Kiff



Report Number : 41391

Date : 12/18/2004

Project Name : ALBANY HILL (A.H.)

Project Number : 3934

Sample : MW-2

Matrix : Water

Lab Number : 41391-02

Sample Date :12/7/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	17	1.5	ug/L	EPA 8260B	12/16/2004
Toluene	< 1.5	1.5	ug/L	EPA 8260B	12/16/2004
Ethylbenzene	< 1.5	1.5	ug/L	EPA 8260B	12/16/2004
Total Xylenes	< 1.5	1.5	ug/L	EPA 8260B	12/16/2004
Methyl-t-butyl ether (MTBE)	540	1.5	ug/L	EPA 8260B	12/16/2004
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L	EPA 8260B	12/16/2004
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L	EPA 8260B	12/16/2004
Tert-amyl methyl ether (TAME)	< 1.5	1.5	ug/L	EPA 8260B	12/16/2004
Tert-Butanol	< 7.0	7.0	ug/L	EPA 8260B	12/16/2004
TPH as Gasoline	< 150	150	ug/L	EPA 8260B	12/16/2004
1,2-Dichloroethane	< 1.5	1.5	ug/L	EPA 8260B	12/16/2004
1,2-Dibromoethane	< 1.5	1.5	ug/L	EPA 8260B	12/16/2004
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	12/16/2004
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/16/2004
Dibromofluoromethane (Surr)	106		% Recovery	EPA 8260B	12/16/2004
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	12/16/2004
TPH as Diesel	86	50	ug/L	M EPA 8015	12/16/2004
Octacosane (Diesel Surrogate)	101		% Recovery	M EPA 8015	12/16/2004

Approved By:

Joel Kiff



Report Number : 41391

Date : 12/18/2004

Project Name : ALBANY HILL (A.H.)

Project Number : 3934

Sample : MW-3

Matrix : Water

Lab Number : 41391-03

Sample Date :12/7/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	310	10	ug/L	EPA 8260B	12/16/2004
Toluene	19	10	ug/L	EPA 8260B	12/16/2004
Ethylbenzene	24	10	ug/L	EPA 8260B	12/16/2004
Total Xylenes	50	10	ug/L	EPA 8260B	12/16/2004
Methyl-t-butyl ether (MTBE)	4000	10	ug/L	EPA 8260B	12/16/2004
Diisopropyl ether (DIPE)	< 10	10	ug/L	EPA 8260B	12/16/2004
Ethyl-t-butyl ether (ETBE)	< 10	10	ug/L	EPA 8260B	12/16/2004
Tert-amyl methyl ether (TAME)	21	10	ug/L	EPA 8260B	12/16/2004
Tert-Butanol	< 100	100	ug/L	EPA 8260B	12/16/2004
TPH as Gasoline	1000	1000	ug/L	EPA 8260B	12/16/2004
1,2-Dichloroethane	< 10	10	ug/L	EPA 8260B	12/16/2004
1,2-Dibromoethane	< 10	10	ug/L	EPA 8260B	12/16/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/16/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/16/2004
Dibromofluoromethane (Surr)	111		% Recovery	EPA 8260B	12/16/2004
1,2-Dichloroethane-d4 (Surr)	97.9		% Recovery	EPA 8260B	12/16/2004
TPH as Diesel	150	50	ug/L	M EPA 8015	12/16/2004
Octacosane (Diesel Surrogate)	109		% Recovery	M EPA 8015	12/16/2004

Approved By:

Joel Kiff



Report Number : 41391

Date : 12/18/2004

Project Name : ALBANY HILL (A.H.)

Project Number : 3934

Sample : MW-4

Matrix : Water

Lab Number : 41391-04

Sample Date :12/7/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	450	0.90	ug/L	EPA 8260B	12/16/2004
Toluene	8.2	0.90	ug/L	EPA 8260B	12/16/2004
Ethylbenzene	72	0.90	ug/L	EPA 8260B	12/16/2004
Total Xylenes	100	0.90	ug/L	EPA 8260B	12/16/2004
Methyl-t-butyl ether (MTBE)	9.5	0.90	ug/L	EPA 8260B	12/16/2004
Diisopropyl ether (DIPE)	< 0.90	0.90	ug/L	EPA 8260B	12/16/2004
Ethyl-t-butyl ether (ETBE)	< 0.90	0.90	ug/L	EPA 8260B	12/16/2004
Tert-amyl methyl ether (TAME)	< 0.90	0.90	ug/L	EPA 8260B	12/16/2004
Tert-Butanol	5.4	5.0	ug/L	EPA 8260B	12/16/2004
TPH as Gasoline	1900	90	ug/L	EPA 8260B	12/16/2004
1,2-Dichloroethane	< 0.90	0.90	ug/L	EPA 8260B	12/16/2004
1,2-Dibromoethane	< 0.90	0.90	ug/L	EPA 8260B	12/16/2004
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	12/16/2004
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	12/16/2004
Dibromofluoromethane (Surr)	104		% Recovery	EPA 8260B	12/16/2004
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	12/16/2004
TPH as Diesel	< 200	200	ug/L	M EPA 8015	12/16/2004
Octacosane (Diesel Surrogate)	107		% Recovery	M EPA 8015	12/16/2004

Approved By:

Joel Kiff



Report Number : 41391

Date : 12/18/2004

Project Name : ALBANY HILL (A.H.)

Project Number : 3934

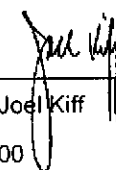
Sample : MW-5

Matrix : Water

Lab Number : 41391-05

Sample Date :12/7/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	4.1	0.50	ug/L	EPA 8260B	12/16/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Ethylbenzene	1.4	0.50	ug/L	EPA 8260B	12/16/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/16/2004
TPH as Gasoline	1000	50	ug/L	EPA 8260B	12/16/2004
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	12/16/2004
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	12/16/2004
Dibromofluoromethane (Surr)	104		% Recovery	EPA 8260B	12/16/2004
1,2-Dichloroethane-d4 (Surr)	97.9		% Recovery	EPA 8260B	12/16/2004
TPH as Diesel	< 200	200	ug/L	M EPA 8015	12/16/2004
Octacosane (Diesel Surrogate)	99.6		% Recovery	M EPA 8015	12/16/2004

Approved By:  Joel Kiff

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



Report Number : 41391

Date : 12/18/2004

Project Name : ALBANY HILL (A.H.)

Project Number : 3934

Sample : MW-6

Matrix : Water

Lab Number : 41391-06

Sample Date : 12/7/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	32	0.50	ug/L	EPA 8260B	12/15/2004
Toluene	1.7	0.50	ug/L	EPA 8260B	12/15/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Total Xylenes	1.1	0.50	ug/L	EPA 8260B	12/15/2004
Methyl-t-butyl ether (MTBE)	160	0.50	ug/L	EPA 8260B	12/15/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Tert-amyl methyl ether (TAME)	2.2	0.50	ug/L	EPA 8260B	12/15/2004
Tert-Butanol	49	5.0	ug/L	EPA 8260B	12/15/2004
TPH as Gasoline	1800	50	ug/L	EPA 8260B	12/15/2004
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	12/15/2004
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	12/15/2004
Dibromofluoromethane (Surr)	99.8		% Recovery	EPA 8260B	12/15/2004
1,2-Dichloroethane-d4 (Surr)	96.2		% Recovery	EPA 8260B	12/15/2004
TPH as Diesel	< 600	600	ug/L	M EPA 8015	12/16/2004
Octacosane (Diesel Surrogate)	101		% Recovery	M EPA 8015	12/16/2004

Approved By:

Joel Kiff



Report Number : 41391

Date : 12/18/2004

Project Name : ALBANY HILL (A.H.)

Project Number : 3934

Sample : MW-7

Matrix : Water

Lab Number : 41391-07

Sample Date : 12/7/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	140	2.0	ug/L	EPA 8260B	12/16/2004
Toluene	3.4	2.0	ug/L	EPA 8260B	12/16/2004
Ethylbenzene	49	2.0	ug/L	EPA 8260B	12/16/2004
Total Xylenes	70	2.0	ug/L	EPA 8260B	12/16/2004
Methyl-t-butyl ether (MTBE)	960	2.0	ug/L	EPA 8260B	12/16/2004
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/16/2004
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/16/2004
Tert-amyl methyl ether (TAME)	4.0	2.0	ug/L	EPA 8260B	12/16/2004
Tert-Butanol	< 20	20	ug/L	EPA 8260B	12/16/2004
TPH as Gasoline	990	200	ug/L	EPA 8260B	12/16/2004
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	12/16/2004
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	12/16/2004
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	12/16/2004
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/16/2004
Dibromofluoromethane (Surr)	105		% Recovery	EPA 8260B	12/16/2004
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	12/16/2004
TPH as Diesel	< 300	300	ug/L	M EPA 8015	12/15/2004
Octacosane (Diesel Surrogate)	106		% Recovery	M EPA 8015	12/15/2004

Approved By:

Joel Kiff



Report Number : 41391

Date : 12/18/2004

Project Name : ALBANY HILL (A.H.)

Project Number : 3934

Sample : MW-8

Matrix : Water

Lab Number : 41391-08

Sample Date :12/7/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	420	10	ug/L	EPA 8260B	12/16/2004
Toluene	< 10	10	ug/L	EPA 8260B	12/16/2004
Ethylbenzene	40	10	ug/L	EPA 8260B	12/16/2004
Total Xylenes	61	10	ug/L	EPA 8260B	12/16/2004
Methyl-t-butyl ether (MTBE)	6800	10	ug/L	EPA 8260B	12/16/2004
Diisopropyl ether (DIPE)	< 10	10	ug/L	EPA 8260B	12/16/2004
Ethyl-t-butyl ether (ETBE)	< 10	10	ug/L	EPA 8260B	12/16/2004
Tert-amyl methyl ether (TAME)	31	10	ug/L	EPA 8260B	12/16/2004
Tert-Butanol	100 J	50	ug/L	EPA 8260B	12/16/2004
TPH as Gasoline	2000	1000	ug/L	EPA 8260B	12/16/2004
1,2-Dichloroethane	< 10	10	ug/L	EPA 8260B	12/16/2004
1,2-Dibromoethane	< 10	10	ug/L	EPA 8260B	12/16/2004
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	12/16/2004
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	12/16/2004
Dibromofluoromethane (Surr)	105		% Recovery	EPA 8260B	12/16/2004
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	12/16/2004
TPH as Diesel	280	50	ug/L	M EPA 8015	12/16/2004
Octacosane (Diesel Surrogate)	102		% Recovery	M EPA 8015	12/16/2004

Approved By:

Joel Kiff



Report Number : 41391

Date : 12/18/2004

Project Name : ALBANY HILL (A.H.)

Project Number : 3934

Sample : MW-9

Matrix : Water

Lab Number : 41391-09

Sample Date :12/7/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	950	5.0	ug/L	EPA 8260B	12/16/2004
Toluene	580	5.0	ug/L	EPA 8260B	12/16/2004
Ethylbenzene	480	5.0	ug/L	EPA 8260B	12/16/2004
Total Xylenes	2900	5.0	ug/L	EPA 8260B	12/16/2004
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	12/16/2004
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	12/16/2004
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	12/16/2004
Tert-amyl methyl ether (TAME)	< 5.0	5.0	ug/L	EPA 8260B	12/16/2004
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/16/2004
TPH as Gasoline	13000	500	ug/L	EPA 8260B	12/16/2004
1,2-Dichloroethane	< 5.0	5.0	ug/L	EPA 8260B	12/16/2004
1,2-Dibromoethane	< 5.0	5.0	ug/L	EPA 8260B	12/16/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/16/2004
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/16/2004
Dibromofluoromethane (Surr)	105		% Recovery	EPA 8260B	12/16/2004
1,2-Dichloroethane-d4 (Surr)	95.0		% Recovery	EPA 8260B	12/16/2004
TPH as Diesel	< 1500	1500	ug/L	M EPA 8015	12/16/2004
Octacosane (Diesel Surrogate)	113		% Recovery	M EPA 8015	12/16/2004

Approved By:

Joel Kiff

Report Number : 41391

Date : 12/18/2004

QC Report : Method Blank Data

Project Name : **ALBANY HILL (A.H.)**

Project Number : **3934**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/15/2004
Octacosane (Diesel Surrogate)	106		%	M EPA 8015	12/15/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/15/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/15/2004
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Toluene - d8 (Surr)	96.0		%	EPA 8260B	12/15/2004
4-Bromofluorobenzene (Surr)	87.6		%	EPA 8260B	12/15/2004
Dibromofluoromethane (Surr)	95.4		%	EPA 8260B	12/15/2004
1,2-Dichloroethane-d4 (Surr)	96.6		%	EPA 8260B	12/15/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/14/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/14/2004
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/14/2004
Toluene - d8 (Surr)	98.0		%	EPA 8260B	12/14/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	12/14/2004
Dibromofluoromethane (Surr)	103		%	EPA 8260B	12/14/2004
1,2-Dichloroethane-d4 (Surr)	99.7		%	EPA 8260B	12/14/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/16/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/16/2004
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/16/2004
Toluene - d8 (Surr)	98.9		%	EPA 8260B	12/16/2004
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	12/16/2004
Dibromofluoromethane (Surr)	105		%	EPA 8260B	12/16/2004
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	12/16/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/15/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/15/2004
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/15/2004

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41391

Date : 12/18/2004

QC Report : Method Blank Data

Project Name : **ALBANY HILL (A.H.)**


Project Number : **3934**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Toluene - d8 (Surr)	88.6		%	EPA 8260B	12/15/2004
4-Bromofluorobenzene (Surr)	96.2		%	EPA 8260B	12/15/2004
Dibromofluoromethane (Surr)	120		%	EPA 8260B	12/15/2004
1,2-Dichloroethane-d4 (Surr)	111		%	EPA 8260B	12/15/2004

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

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

Approved By:  _____
Joel Kiff

Report Number : 41391

Date : 12/18/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **ALBANY HILL (A.H.)**

Project Number : **3934**

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 Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	1160	1210	ug/L	M EPA 8015	12/15/04	116	121	3.63	70-130	25
Benzene	41416-03	160	39.2	38.7	193	182	ug/L	EPA 8260B	12/15/04	72.1	45.0	46.3	70-130	25
Toluene	41416-03	23	39.2	38.7	58.2	56.2	ug/L	EPA 8260B	12/15/04	88.6	84.8	4.47	70-130	25
Tert-Butanol	41416-03	6.4	196	193	206	206	ug/L	EPA 8260B	12/15/04	102	103	1.18	70-130	25
Methyl-t-Butyl Ether	41416-03	<0.50	39.2	38.7	38.2	38.2	ug/L	EPA 8260B	12/15/04	97.5	98.7	1.22	70-130	25
Benzene	41459-01	<0.50	40.0	40.0	40.4	40.5	ug/L	EPA 8260B	12/14/04	101	101	0.317	70-130	25
Toluene	41459-01	<0.50	40.0	40.0	40.0	40.2	ug/L	EPA 8260B	12/14/04	100	101	0.542	70-130	25
Tert-Butanol	41459-01	<5.0	200	200	189	188	ug/L	EPA 8260B	12/14/04	94.3	93.9	0.458	70-130	25
Methyl-t-Butyl Ether	41459-01	<0.50	40.0	40.0	38.7	39.0	ug/L	EPA 8260B	12/14/04	96.8	97.5	0.734	70-130	25
Benzene	41512-07	<0.50	40.0	40.0	40.6	40.7	ug/L	EPA 8260B	12/16/04	101	102	0.316	70-130	25
Toluene	41512-07	<0.50	40.0	40.0	40.1	39.8	ug/L	EPA 8260B	12/16/04	100	99.6	0.600	70-130	25
Tert-Butanol	41512-07	<5.0	200	200	197	193	ug/L	EPA 8260B	12/16/04	98.7	96.6	2.13	70-130	25
Methyl-t-Butyl Ether	41512-07	18	40.0	40.0	58.1	58.0	ug/L	EPA 8260B	12/16/04	101	100	0.197	70-130	25
Benzene	41448-06	<0.50	40.0	40.0	42.5	41.0	ug/L	EPA 8260B	12/15/04	106	102	3.59	70-130	25
Toluene	41448-06	<0.50	40.0	40.0	38.8	37.6	ug/L	EPA 8260B	12/15/04	97.0	94.0	3.06	70-130	25
Tert-Butanol	41448-06	<5.0	200	200	206	205	ug/L	EPA 8260B	12/15/04	103	103	0.444	70-130	25
Methyl-t-Butyl Ether	41448-06	<0.50	40.0	40.0	47.8	47.8	ug/L	EPA 8260B	12/15/04	120	120	0.0456	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41391

Date : 12/18/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : ALBANY HILL (A.H.)


Project Number : 3934

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/15/04	95.7	70-130
Toluene	40.0	ug/L	EPA 8260B	12/15/04	95.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/15/04	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/15/04	96.8	70-130
Benzene	40.0	ug/L	EPA 8260B	12/14/04	97.3	70-130
Toluene	40.0	ug/L	EPA 8260B	12/14/04	97.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/14/04	89.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/14/04	93.3	70-130
Benzene	40.0	ug/L	EPA 8260B	12/16/04	97.2	70-130
Toluene	40.0	ug/L	EPA 8260B	12/16/04	97.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/16/04	90.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/16/04	94.1	70-130
Benzene	40.0	ug/L	EPA 8260B	12/15/04	104	70-130
Toluene	40.0	ug/L	EPA 8260B	12/15/04	96.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/15/04	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/15/04	112	70-130

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Approved By:


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