



January 17, 2001

A handwritten signature in black ink, appearing to be 'D. M. R.', is written over the page.

QUARTERLY GROUNDWATER MONITORING REPORT
DECEMBER 2000 GROUNDWATER SAMPLING
ASE JOB NO. 3540

at
Oakland Truck Stop
8255 San Leandro Street
Oakland, 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

Oakland Truck Stop
8255 San Leandro Street
Oakland, California

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 December 2000 quarterly groundwater sampling at the above-referenced site. 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 December 11, 2000, ASE associate geologist Ian Reed 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 with a product thickness bailer. Monitoring well MW-1 contained 0.60-feet of free-floating hydrocarbons believed to be diesel. No free-floating hydrocarbons or sheen were observed in any of the remaining site monitoring wells. Groundwater elevation data is presented as Table One.

A groundwater potentiometric surface map for December 11, 2000 is presented as Figure 2. Groundwater beneath the site has flow components to the south, southeast, and southwest with a gradient of between approximately 0.0015 and 0.024-feet/foot. The primary flow direction is to the south.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Prior to sampling, monitoring wells MW-2 through MW-6 were purged of four well casing volumes of groundwater using dedicated polyethylene bailers. Petroleum hydrocarbon odors were present during the purging and sampling of all site groundwater monitoring wells. The parameters pH, temperature and conductivity were monitored during the well purging. Samples were not collected until these parameters stabilized. Groundwater samples were collected from each well using dedicated polyethylene bailers. Since free-floating hydrocarbons were present in monitoring well MW-1, this well was not sampled.

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

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

The groundwater samples were analyzed for total petroleum hydrocarbons as diesel (TPH-D) and total petroleum hydrocarbons as motor oil (TPH-MO) by EPA Method 3550/8015M, and total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, and

total xylenes (BTEX), and oxygenates by EPA Method 8260. The analytical results are presented in Tables Two and Three. The certified analytical report and chain-of-custody documentation are included as Appendix B.

4.0 CONCLUSIONS

Monitoring well MW-1 contained 0.60-feet of free-floating hydrocarbons believed to be diesel. The groundwater samples collected from monitoring well MW-2 contained 1,000 parts per billion (ppb) TPH-G, 120 ppb TPH-D, 2.6 ppb benzene, 15 ppb methyl-t-butyl ether (MTBE), 2.9 ppb diisopropyl ether (DIPE), and 62 ppb tert-butanol (TBA). The groundwater samples collected from monitoring well MW-3 contained 24,000 ppb TPH-G, 14,000 ppb TPH-D, 13,000 ppb benzene, 88 ppb toluene, 780 ppb ethyl benzene, 120 ppb total xylenes, 4,300 ppb MTBE, and 2,300 ppb TBA. The groundwater samples collected from monitoring well MW-4 contained 110 ppb MTBE and 16 ppb TBA. The groundwater samples collected from monitoring well MW-5 contained 540 ppb TPH-G, 590 ppb TPH-D, 240 ppb MTBE, 9.5 ppb DIPE, and 32 ppb TBA. The groundwater samples collected from monitoring well MW-6 contained 10,000 ppb TPH-D, 190 ppb benzene, 14,000 ppb MTBE, 74 ppb TAME, and 2,900 ppb TBA.

The benzene detected in groundwater samples collected from monitoring wells MW-2, MW-3, and MW-6 exceeded the California Department of Health Services (DHS) maximum contaminant level (MCL) for drinking water. The ethyl benzene detected in groundwater samples collected from monitoring well MW-3 exceeded the DHS MCL for drinking water. The MTBE detected in groundwater samples collected from all five monitoring wells sampled exceeded the DHS MCL for drinking water. Overall, the sample results from this quarter were similar to previous sampling results.

5.0 RECOMMENDATIONS

A workplan to conduct additional environmental assessment activities will be prepared and submitted to the ACHCSA within the next 15 days. ASE also recommends that this site remain on a quarterly sampling schedule. The next sampling is scheduled for March 2001.

6.0 REPORT LIMITATIONS

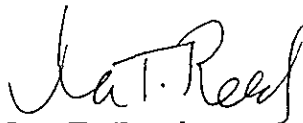
The results of this report represent the conditions at the time of the groundwater sampling, at the specific locations where the groundwater

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-EPA 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.



Ian T. Reed
Associate Geologist



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



Attachments: Table One through Three
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

Well I.D.	Top of Casing Elevation (msl)	Depth to Water Measurement (feet)	Free-Floating Hydrocarbon Thickness (feet)	Groundwater Elevation (msl)
<u>MW-1</u>				
8-16-99	97.12	Unknown	> 1.0	Unknown
8-27-99		6.90	0.36	90.51*
9-10-99		6.85	0.18	90.41*
9-24-99		6.65	0.08	90.53*
10-08-99		6.87	0.28	90.47*
10-22-99		6.81	0.23	90.49*
11-02-99		6.94	0.31	90.43*
11-19-99		6.91	0.12	90.31*
12-06-99		6.93	0.12	90.29*
3-08-00		5.93	0.21	91.36*
6-14-00		6.57	0.72	90.41*
12-11-00		6.70	0.60	90.90*
<u>MW-2</u>				
8-16-99	96.82	6.30	--	90.52
12-06-99		8.46	--	88.36
3-08-00		9.12	--	87.70
6-14-00		8.34		88.48
12-11-00		5.94		90.88
<u>MW-3</u>				
8-16-99	96.43	5.85	--	90.58
12-06-99		5.70	--	90.73
3-08-00		5.32	--	91.11
6-14-00		6.95		89.48
12-11-00		6.22		90.21
<u>MW-4</u>				
8-16-99	96.60	6.12	--	90.48
12-06-99		5.98	--	90.62
3-08-00		4.32		92.28
6-14-00		5.58		91.02
12-11-00		5.70		90.90

TABLE ONE
Groundwater Elevation Data

Well I.D.	Top of Casing Elevation (msl)	Depth to Water Measurement (feet)	Free-Floating Hydrocarbon Thickness (feet)	Groundwater Elevation (msl)
<u>MW-5</u>				
12-06-99	96.30	5.94	--	90.36
3-08-00		4.06	--	92.24
6-14-00		5.25		91.05
12-11-00		5.45		90.85
<u>MW-6</u>				
12-06-99	96.79	5.80	--	90.99
3-08-00		4.10	--	92.69
6-14-00		5.64		91.15
12-11-00		5.72		91.07

Notes:

* = Groundwater elevation adjusted for the presence of free-floating hydrocarbons by the equation: Adjusted groundwater elevation = Top of casing elevation - depth to groundwater + (0.8 x free-floating hydrocarbon thickness)

TABLE TWO
Summary of Chemical Analysis of GROUNDWATER Samples
Petroleum Hydrocarbons
All results are in parts per billion

Boring	TPH Gasoline	TPH Diesel	TPH Motor Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
MW-1												
8/16/99			Not Sampled Due to Free-Floating Hydrocarbons									
12/16/99			Not Sampled Due to Free-Floating Hydrocarbons									
3/8/00			Not Sampled Due to Free-Floating Hydrocarbons									
6/14/00			Not Sampled Due to Free-Floating Hydrocarbons									
12/11/00			Not Sampled Due to Free-Floating Hydrocarbons									
MW-2												
8/16/99	2,200	970*	< 500	3.8	< 2.0	3	< 4.0	< 20	NA	NA	NA	NA
12/16/99	1,900	400*	< 500	16	< 0.5	15	< 0.5	5.2	NA	NA	NA	NA
3/8/00	1,600*	530*	< 500	9.7	< 0.5	27	< 0.5	27	NA	NA	NA	NA
6/14/00	2,000	75	< 100	2.8	< 0.5	3.4	< 0.5	16	3.4	< 0.5	< 0.5	64
12/11/00	1,000	120	< 100	2.6	< 0.5	< 0.5	< 0.5	15	2.9	< 0.5	< 0.5	62
MW-3												
8/16/99	56,000	10,000**	< 500	17,000	2,600	2,600	1,200	6,100	NA	NA	NA	NA
12/16/99	40,000	9,100*	< 500	16,000	140	1,800	100	2,200/4,000#	NA	NA	NA	NA
3/8/00	22,000	4,500*	< 500	11,000	72	1,100	130	3,400	NA	NA	NA	NA
6/14/00	34,000	16,000	< 100	13,000	94	1,300	160	4,800	31	< 10	21	2,700
12/11/00	24,000	14,000	< 100	13,000	88	780	120	4,300	< 50	< 50	< 50	2,300
MW-4												
8/16/99	61***	1,100*	< 500	< 0.5	< 0.5	< 0.5	< 1.0	86	NA	NA	NA	NA
12/16/99	130***	220*	< 500	< 1.0	< 1.0	< 1.0	< 1.0	130	NA	NA	NA	NA
3/8/00	< 50	220*	< 500	< 0.5	< 0.5	< 0.5	< 0.5	130	NA	NA	NA	NA
6/14/00	< 50	< 50	< 100	< 0.5	< 0.5	< 0.5	< 0.5	100	< 0.5	< 0.5	< 0.5	20
12/11/00	< 50	< 50	< 100	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	16
MW-5												
12/16/99	450***	2,000*	< 500	< 1.0	< 1.0	< 1.0	< 1.0	21	NA	NA	NA	NA
3/8/00	51***	530*	< 500	< 0.5	< 0.5	< 0.5	< 0.5	84	NA	NA	NA	NA
6/14/00	380	1,400	< 100	< 0.5	< 0.5	< 0.5	< 0.5	160	12	< 0.5	< 0.5	22
12/11/00	540	590	< 100	< 0.5	< 0.5	< 0.5	< 0.5	240	9.5	< 0.5	< 0.5	32
MW-6												
12/16/99	13,000	< 50	< 500	180	21	11	24	< 100	NA	NA	NA	NA
3/8/00	< 10,000	4,600*	< 500	230	26	18	39	12,000	NA	NA	NA	NA
6/14/00	8,400	12,000	< 100	190	12	9.5	22	15,000	< 5.0	< 5.0	70	3,300
12/11/00	< 5,000	10,000	< 100	190	< 50	< 50	< 50	14,000	< 50	< 50	74	2,900
DHS MCL	NE	NE	NE	1	150	700	1750	15	NE	NE	NE	NE

Notes:

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

Most recent concentrations are in bold.

DHS MCL is the California Department of Health Services maximum contaminant level for drinking water.

NE = DHS MCLs are not established

NA = Sample not analyzed for this compound.

* = Non-typical diesel pattern, hydrocarbons in early diesel range.

** = Estimated concentration due to overlapping fuel patterns in the sample.

*** = Non-typical gasoline pattern.

= MTBE concentration by EPA Method 8260

TABLE THREE

Summary of Chemical Analysis of **GROUNDWATER** Samples
 HVOCs, SVOCs, PCBs and LUFT 5 Metals
 All results are in **parts per billion**

Boring	Isopropyl- benzene	Other VOCs	SVOCs	PCBs	Cd	Cr	Pb	Ni	Zn
<u>MW-2</u>									
8-16-99	11	ND	ND	ND	< 2.0	9.0	< 5.0	19	< 10
<u>MW-4</u>									
8-16-99	< 0.5	ND	ND	ND	2.7	4.5	260	55	320
12-06-99	---	---	---	---	---	---	< 5	---	---
MCL	NE	Various	Various	0.5	5	50	15	100	5,000

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit or are indicated by ND if various detection limits are used for multiple compounds. Please see the original reports for detection limits for these compounds.

Detectable concentrations are in **bold**.

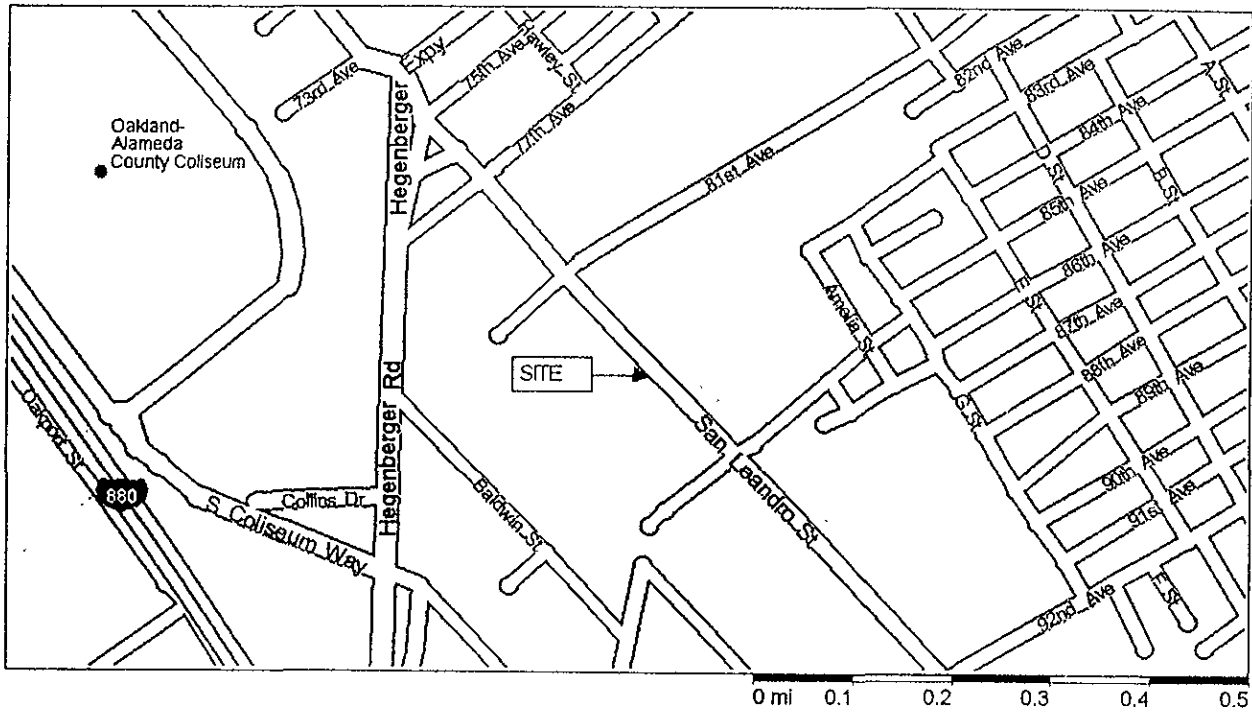
MCL is the California Department of Health Services maximum contaminant level for drinking water.

NE = Not established

FIGURES



NORTH

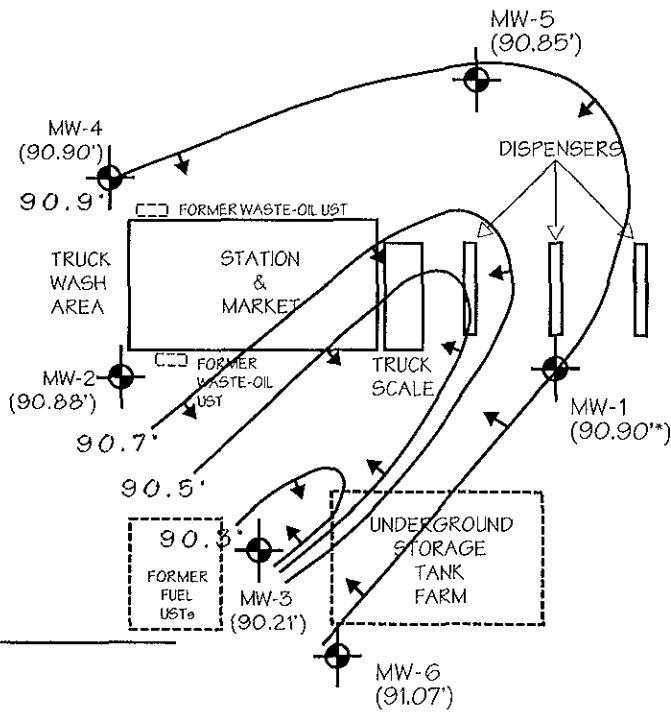


LOCATION MAP

OAKLAND TRUCK STOP
8255 SAN LEANDRO STREET
OAKLAND, CALIFORNIA


PROPERTY BOUNDARIES

CAFE



SAN LEANDRO STREET

LEGEND

MW-1 (91.90')

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

(90.90'')
 GROUNDWATER ELEVATION ADJUSTED FOR FREE-FLOATING HYDROCARBON THICKNESS

— 90.9' —
 POTENTIOMETRIC SURFACE CONTOUR



NORTH

SCALE
1" = 50'

POTENTIOMETRIC
 SURFACE CONTOUR MAP
 DECEMBER 11, 2000

OAKLAND TRUCK STOP
 8255 SAN LEANDRO STREET
 OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

Figure 2

APPENDIX A

Well Sampling Field Logs



WELL SAMPLING FIELD LOG

Project Name and Address: Oakland Truck Stop
 Job #: 3540 Date of sampling: 12/11/00
 Well Name: MW-1 Sampled by: ITR
 Total depth of well (feet): _____ Well diameter (inches): 2"
 Depth to water before sampling (feet): 6.7
 Thickness of floating product if any: 0.6
 Depth of well casing in water (feet): _____
 Number of gallons per well casing volume (gallons): _____
 Number of well casing volumes to be removed: _____
 Req'd volume of groundwater to be purged before sampling (gallons): _____
 Equipment used to purge the well: _____
 Time Evacuation Began: _____ Time Evacuation Finished: _____
 Approximate volume of groundwater purged: _____
 Did the well go dry?: _____ After how many gallons: _____
 Time samples were collected: _____
 Depth to water at time of sampling: _____
 Percent recovery at time of sampling: _____
 Samples collected with: _____
 Sample color: _____ Odor: _____
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

PRODUCT NOT SAMPLED



WELL SAMPLING FIELD LOG

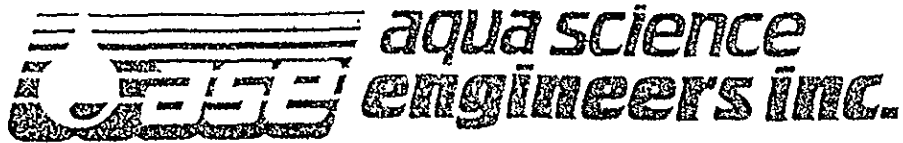
Project Name and Address: Oakland Truck Stop
 Job #: 3540 Date of sampling: 12/11/01
 Well Name: MW-2 Sampled by: TR
 Total depth of well (feet): 15.50' Well diameter (inches): 2"
 Depth to water before sampling (feet): 5.94
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): 9.56
 Number of gallons per well casing volume (gallons): 1.6
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 6.4
 Equipment used to purge the well: ded. bailer
 Time Evacuation Began: 1130 Time Evacuation Finished: 1140
 Approximate volume of groundwater purged: 6.5
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1145
 Depth to water at time of sampling: 6.23
 Percent recovery at time of sampling: 90%
 Samples collected with: ded. bailer
 Sample color: clear Odor: none
 Description of sediment in sample: none

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>21.4</u>	<u>7.10</u>	<u>28</u>
<u>2</u>	<u>21.0</u>	<u>7.10</u>	<u>27</u>
<u>3</u>	<u>21.9</u>	<u>7.09</u>	<u>28</u>
<u>4</u>	<u>21.8</u>	<u>7.11</u>	<u>27</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-2</u>	<u>5</u>	<u>20ml VOA</u>	<u>✓</u>	<u>✓</u>	



WELL SAMPLING FIELD LOG

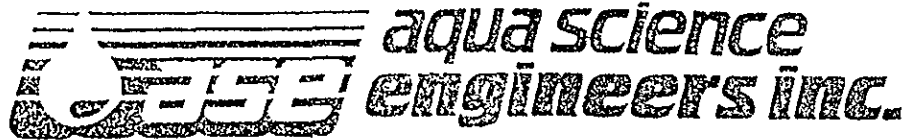
Project Name and Address: Oakland Truck Stop
 Job #: 3546 Date of sampling: 12/11/00
 Well Name: MV-3 Sampled by: JR
 Total depth of well (feet): 15.50 Well diameter (inches): 2"
 Depth to water before sampling (feet): 6.22
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 9.28
 Number of gallons per well casing volume (gallons): 1.6
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 6.4
 Equipment used to purge the well: ded. bailer
 Time Evacuation Began: 1100 Time Evacuation Finished: 1115
 Approximate volume of groundwater purged: 6.5
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1120
 Depth to water at time of sampling: 6.89
 Percent recovery at time of sampling: 90.1
 Samples collected with: ded. bailer
 Sample color: clear-gray Odor: HC odor
 Description of sediment in sample: fine silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
1	20.1	6.14	39
2	22.0	6.17	38
3	22.1	6.17	38
4	22.3	6.18	38

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MV-3	6	210ml VOA	✓	✓	



WELL SAMPLING FIELD LOG

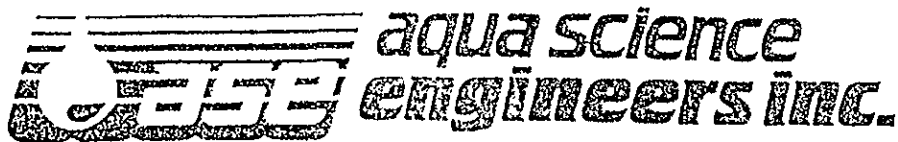
Project Name and Address: Oakland Truck Stop
 Job #: 3540 Date of sampling: 12/11/00
 Well Name: MW-4 Sampled by: ITR
 Total depth of well (feet): 14.45 Well diameter (inches): 2"
 Depth to water before sampling (feet): 5.70
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 9.05
 Number of gallons per well casing volume (gallons): 1.5
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 6
 Equipment used to purge the well: ded. sealer
 Time Evacuation Began: 1253 Time Evacuation Finished: 1305
 Approximate volume of groundwater purged: 6
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1310
 Depth to water at time of sampling: 5.99
 Percent recovery at time of sampling: 98%
 Samples collected with: ded. sealer
 Sample color: gray Odor: none
 Description of sediment in sample: Silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>19.9</u>	<u>6.8</u>	<u>33</u>
<u>2</u>	<u>19.8</u>	<u>6.8</u>	<u>33</u>
<u>3</u>	<u>19.9</u>	<u>6.8</u>	<u>32</u>
<u>4</u>	<u>19.9</u>	<u>6.8</u>	<u>33</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-4</u>	<u>5</u>	<u>40ml VOA</u>	<u>✓</u>	<u>✓</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Oakland Truck Stop
 Job #: 3540 Date of sampling: 12/11/00
 Well Name: MW-5 Sampled by: ITZ
 Total depth of well (feet): 13.7' Well diameter (inches): 2"
 Depth to water before sampling (feet): 5.45
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 8.25
 Number of gallons per well casing volume (gallons): 1.4
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 5.6
 Equipment used to purge the well: ded. bailer
 Time Evacuation Began: 1315 Time Evacuation Finished: 1325
 Approximate volume of groundwater purged: 5.6
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1330
 Depth to water at time of sampling: 5.80
 Percent recovery at time of sampling: 94%
 Samples collected with: ded. bailer
 Sample color: clear Odor: slight H₂S
 Description of sediment in sample: fine silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
1	22.3	7.14	31
2	27.4	7.13	31
3	22.3	7.13	30
4	27.2	7.13	30

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-5	5	40ml VOA	✓	✓	



WELL SAMPLING FIELD LOG

Project Name and Address: Oakland Truck Stop
 Job #: 3540 Date of sampling: 12/11/00
 Well Name: MW-6 Sampled by: ITR
 Total depth of well (feet): 14.0' Well diameter (inches): 2"
 Depth to water before sampling (feet): 5.72
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 8.28
 Number of gallons per well casing volume (gallons): 1.4
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 5.6
 Equipment used to purge the well: ded. bailer
 Time Evacuation Began: 1035 Time Evacuation Finished: 1050
 Approximate volume of groundwater purged: 5.6
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1035
 Depth to water at time of sampling: 6.10
 Percent recovery at time of sampling: 93%
 Samples collected with: ded. bailer
 Sample color: clear/gray Odor: v. slight H₂S odor
 Description of sediment in sample: F.S.H

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>19.9</u>	<u>7.21</u>	<u>29</u>
<u>2</u>	<u>19.9</u>	<u>7.20</u>	<u>29</u>
<u>3</u>	<u>20.0</u>	<u>7.20</u>	<u>27</u>
<u>4</u>	<u>20.1</u>	<u>7.21</u>	<u>27</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-6</u>	<u>5</u>	<u>610ml Vial</u>	<u>✓</u>	<u>✓</u>	

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation



Report Number : 18635

Date : 01/02/2001

Ian Reed
Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526

Subject : 5 Water Samples
Project Name : Oakland Truck Stop (OTS)
Project Number : 3540

Dear Mr. Reed,

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



Report Number : 18635

Date : 01/02/2001

Project Name : Oakland Truck Stop (OTS)

Project Number : 3540

Sample : MW-2

Matrix : Water

Lab Number : 18635-01

Sample Date :12/11/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.6	0.50	ug/L	EPA 8260B	12/21/2000
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Methyl-t-butyl ether (MTBE)	15	0.50	ug/L	EPA 8260B	12/21/2000
Diisopropyl ether (DIPE)	2.9	0.50	ug/L	EPA 8260B	12/21/2000
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Tert-Butanol	62	5.0	ug/L	EPA 8260B	12/21/2000
TPH as Gasoline	1000	50	ug/L	EPA 8260B	12/21/2000
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	12/21/2000
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/21/2000
TPH as Diesel	120	50	ug/L	M EPA 8015	12/26/2000
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	12/26/2000

Approved By:  Joel Kiff



Report Number : 18635

Date : 01/02/2001

Project Name : Oakland Truck Stop (OTS)

Project Number : 3540

Sample : MW-3

Matrix : Water

Lab Number : 18635-02

Sample Date :12/11/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	13000	50	ug/L	EPA 8260B	12/22/2000
Toluene	88	50	ug/L	EPA 8260B	12/22/2000
Ethylbenzene	780	50	ug/L	EPA 8260B	12/22/2000
Total Xylenes	120	50	ug/L	EPA 8260B	12/22/2000
Methyl-t-butyl ether (MTBE)	4300	50	ug/L	EPA 8260B	12/22/2000
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	12/22/2000
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	12/22/2000
Tert-amyl methyl ether (TAME)	< 50	50	ug/L	EPA 8260B	12/22/2000
Tert-Butanol	2300	500	ug/L	EPA 8260B	12/22/2000
TPH as Gasoline	24000	5000	ug/L	EPA 8260B	12/22/2000
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	12/22/2000
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	12/22/2000
TPH as Diesel	14000	50	ug/L	M EPA 8015	12/26/2000
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	12/26/2000

Approved By:  Joel Kiff



Report Number : 18635

Date : 01/02/2001

Project Name : **Oakland Truck Stop (OTS)**

Project Number : **3540**

Sample : **MW-4**

Matrix : **Water**

Lab Number : **18635-03**

Sample Date : **12/11/2000**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Methyl-t-butyl ether (MTBE)	110	0.50	ug/L	EPA 8260B	12/21/2000
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/21/2000
Tert-Butanol	16	5.0	ug/L	EPA 8260B	12/21/2000
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/21/2000
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	12/21/2000
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/21/2000
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/26/2000
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	12/26/2000

Approved By:  Joel Kiff



Report Number : 18635

Date : 01/02/2001

Project Name : Oakland Truck Stop (OTS)

Project Number : 3540


Sample : MW-5

Matrix : Water

Lab Number : 18635-04

Sample Date :12/11/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/22/2000
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/22/2000
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/22/2000
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/22/2000
Methyl-t-butyl ether (MTBE)	240	0.50	ug/L	EPA 8260B	12/22/2000
Diisopropyl ether (DIPE)	9.5	0.50	ug/L	EPA 8260B	12/22/2000
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/22/2000
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/22/2000
Tert-Butanol	32	5.0	ug/L	EPA 8260B	12/22/2000
TPH as Gasoline	540	50	ug/L	EPA 8260B	12/22/2000
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/22/2000
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	12/22/2000
TPH as Diesel	590	50	ug/L	M EPA 8015	12/26/2000
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	12/26/2000

Approved By:  Joel Kiff



Report Number : 18635

Date : 01/02/2001

Project Name : Oakland Truck Stop (OTS)

Project Number : 3540

Sample : MW-6

Matrix : Water

Lab Number : 18635-05

Sample Date :12/11/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	190	50	ug/L	EPA 8260B	12/22/2000
Toluene	< 50	50	ug/L	EPA 8260B	12/22/2000
Ethylbenzene	< 50	50	ug/L	EPA 8260B	12/22/2000
Total Xylenes	< 50	50	ug/L	EPA 8260B	12/22/2000
Methyl-t-butyl ether (MTBE)	14000	50	ug/L	EPA 8260B	12/22/2000
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	12/22/2000
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	12/22/2000
Tert-amyl methyl ether (TAME)	74	50	ug/L	EPA 8260B	12/22/2000
Tert-Butanol	2900	500	ug/L	EPA 8260B	12/22/2000
TPH as Gasoline	< 5000	5000	ug/L	EPA 8260B	12/22/2000
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	12/22/2000
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/22/2000
TPH as Diesel	10000	50	ug/L	M EPA 8015	12/26/2000
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	12/26/2000

Approved By:  Joel Kiff

18635

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

Chain of Custody

PAGE 1 OF 1

SAMPLER (SIGNATURE) John T. Reed (PHONE NO.) (925) 820-9391

PROJECT NAME Oakland Truck Stop (UTS) JOB NO. SS-10
 ADDRESS 8255 San Leandro St. Oakland CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
5-day FAI

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 50301/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/82401/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (S) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G/BTEX/S OXY'S (EPA 8260)	TPH-G/BTEX/7 OXY'S / HYDROCS (EPA 8260)	COMPOSITE	
MW-2	12/11	1145	water	5			X											X			01
MW-3	12/11	1220	water	5			X											X			02
MW-4	12/11	1318	water	5			X											X			03
MW-5	12/11	1330	water	5			X											X			04
MW-6	12/11	1053	water	3			X											X			05

RELINQUISHED BY:
John T. Reed
 (signature) (time)
John T. Reed 12/11/00
 (printed name) (date)
 Company- ASE

RECEIVED BY:
 (signature) (time)
 (printed name) (date)
 Company-

RELINQUISHED BY:
 (signature) (time)
 (printed name) (date)
 Company-

RECEIVED BY LABORATORY:
Harold Brown 1005
 (signature) (time)
HAROLD BROWN 12/12/00
 (printed name) (date)
 Company- KIFF ANALYTICAL

COMMENTS:
 TURN AROUND TIME
 STANDARD 24H 48H 72H
 OTHER: