

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 June 2001 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 June 6, 2001, ASE associate geologist Erik Paddleford 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 using an electronic product level meter. The presence of free-floating hydrocarbons was confirmed with a disposable bailer half-filled for direct observation. Monitoring well MW-1 contained 1.48-feet of free-floating diesel. No free-floating hydrocarbons or sheen was observed in any of the remaining site monitoring wells. Groundwater elevation data is presented as Table One.

A groundwater potentiometric surface map for June 6, 2001 is presented as Figure 2. Groundwater beneath the site flows to the north and northwest with a gradient of approximately 0.0006 feet/foot. The groundwater flow direction at the site has been very inconsistent and highly variable.

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 and labeled for temporary storage.

The groundwater samples were analyzed for total petroleum hydrocarbons as diesel (TPH-D) and motor oil (TPH-MO) by EPA Method

3550/8015M, and total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, and total xylenes (collectively known as 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 1.48-feet of free-floating diesel hydrocarbons, which is an increase of over 1-foot from last quarter.

The groundwater samples collected from monitoring well MW-2 contained 1,700 parts per billion (ppb) TPH-G, 190 ppb TPH-D, 2.6 ppb benzene, 2.3 ppb ethyl-benzene, 26 ppb methyl-t-butyl ether (MTBE), 3.2 ppb diisopropyl ether (DIPE), and 83 ppb tert-butanol (TBA). The groundwater samples collected from monitoring well MW-3 contained 34,000 ppb TPH-G, 20,000 ppb TPH-D, 14,000 ppb benzene, 94 ppb toluene, 550 ppb ethyl-benzene, 110 ppb total xylenes, 4,400 ppb MTBE, and 2,300 ppb TBA. The groundwater samples collected from monitoring well MW-4 contained 790 ppb TPH-D, 110 ppb MTBE, and 20 ppb TBA. The groundwater samples collected from monitoring well MW-5 contained 280 ppb TPH-G, 2,700 ppb TPH-D, 180 ppb MTBE, 13 ppb DIPE, and 26 ppb TBA. The groundwater samples collected from monitoring well MW-6 contained 5,000 TPH-G, 23,000 ppb TPH-D, 210 ppb benzene, 12,000 ppb MTBE, 84 ppb TAME, and 4,200 ppb TBA.

The benzene concentrations 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 MTBE concentrations detected in groundwater samples collected from all five monitoring wells sampled exceeded the DHS MCL for drinking water. Overall, the analytical results this quarter were similar to previous sampling results with the exception of TPH-D, which increased in monitoring wells MW-3 and MW-6 and decreased in monitoring well MW-2.

5.0 RECOMMENDATIONS

ASE recommends that this site remain on a quarterly sampling schedule. The next sampling is scheduled for September 2001. In addition, ASE anticipates completing the work outlined in ASE's workplan dated February 6, 2001 during the next quarter. ASE will begin work once the costs are pre-approved by the Underground Storage Tank Clean-up Fund.

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.

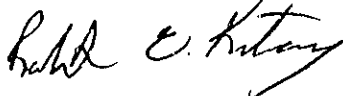
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

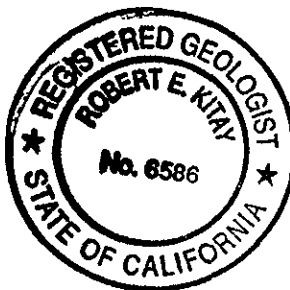
AQUA SCIENCE ENGINEERS, INC.



Erik H. Paddelford
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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
Oakland Truck Stop
8255 San Leandro Street, Oakland, CA

Well I.D & Date Sampled	Top of Casing Elevation (msl)	Depth to Water (feet)	Free-Floating Hydrocarbon Thickness (feet)	Groundwater Elevation (msl)
<u>MW-1</u>				
08/16/1999	97.12	Unknown	> 1.0	Unknown
08/27/1999		6.90	0.36	90.51*
09/10/1999		6.85	0.18	90.41*
09/24/1999		6.65	0.08	90.53*
10/08/1999		6.87	0.28	90.47*
10/22/1999		6.81	0.23	90.49*
11/02/1999		6.94	0.31	90.43*
11/19/1999		6.91	0.12	90.31*
12/06/1999		6.93	0.12	90.29*
03/08/2000		5.93	0.21	91.36*
06/14/2000		6.57	0.72	90.41*
12/11/2000		6.70	0.60	90.90*
03/06/2001		5.75	0.40	91.69*
06/06/2001		7.60	1.48	90.70*
<u>MW-2</u>				
08/16/1999	96.82	6.30	--	90.52
12/06/1999		8.46	--	88.36
03/08/2000		9.12	--	87.70
06/14/2000		8.34	--	88.48
12/11/2000		5.94	--	90.88
03/06/2001		4.70	--	92.12
06/06/2001		6.03	--	90.79
<u>MW-3</u>				
08/16/1999	96.43	5.85	--	90.58
12/06/1999		5.70	--	90.73
03/08/2000		5.32	--	91.11
06/14/2000		6.95	--	89.48
12/11/2000		6.22	--	90.21
03/06/2001		4.83	--	91.60
06/06/2001		5.62	--	90.81

TABLE ONE
Groundwater Elevation Data
Oakland Truck Stop
8255 San Leandro Street, Oakland, CA

Well ID & Date Sampled	Top of Casing Elevation (msl)	Depth to Water (feet)	Free-Floating Hydrocarbon Thickness (feet)	Groundwater Elevation (msl)
<u>MW-4</u>				
08/16/1999	96.60	6.12	--	90.48
12/06/1999		5.98	--	90.62
03/08/2000		4.32	--	92.28
06/14/2000		5.58	--	91.02
12/11/2000		5.70	--	90.90
03/06/2001		4.46	--	92.14
06/06/2001		5.89	--	90.71
<u>MW-5</u>				
12/06/1999	96.30	5.94	--	90.36
03/08/2000		4.06	--	92.24
06/14/2000		5.25	--	91.05
12/11/2000		5.45	--	90.85
03/06/2001		4.12	--	92.18
06/06/2001		5.56	--	90.74
<u>MW-6</u>				
12/06/1999	96.79	5.80	--	90.99
03/08/2000		4.10	--	92.69
06/14/2000		5.64	--	91.15
12/11/2000		5.72	--	91.07
03/06/2001		4.32	--	92.47
06/06/2001		5.81	--	90.98

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

Well ID DATE	TPH- Gasoline	TPH Diesel	TPH Motor Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	DIFE	ETBE	TAME	TBA
MW-1												
8/16/1999												
12/6/1999												
3/8/2000												
6/14/2000												
12/11/2000												
3/6/2001												
6/6/2001												
MW-2												
8/16/1999	2,200	970*	< 500	3.8	< 2.0	3	< 4.0	< 20	NA	NA	NA	NA
12/6/1999	1,900	400*	< 500	16	< 0.5	1.5	< 0.5	5.2	NA	NA	NA	NA
3/8/2000	1,600*	530*	< 500	9.7	< 0.5	2.7	< 0.5	27	NA	NA	NA	NA
6/14/2000	2,000	75	< 100	2.8	< 0.5	3.4	< 0.5	16	3.4	< 0.5	< 0.5	64
12/11/2000	1,000	120	< 100	2.6	< 0.5	< 0.5	< 0.5	15	2.9	< 0.5	< 0.5	62
3/6/2001	1,500	1,400	NA	2.2	< 0.5	17	< 0.5	22	3.4	< 0.5	< 0.5	83
6/6/2001	1,700	190	NA	2.6	< 0.5	2.3	< 0.5	26	3.2	< 0.5	< 0.5	83
MW-3												
8/16/1999	56,000	10,000**	< 500	17,000	2,600	2,600	1,200	6,100	NA	NA	NA	NA
12/6/1999	40,000	9,100*	< 500	16,000	140	1,800	100	2,200/4,000#	NA	NA	NA	NA
3/8/2000	22,000	4,500*	< 500	11,000	72	1,100	130	3,400	NA	NA	NA	NA
6/14/2000	34,000	16,000	< 100	13,000	94	1,300	160	4,800	31	< 10	21	2,700
12/11/2000	24,000	14,000	< 100	13,000	88	780	120	4,300	< 50	< 50	< 50	2,300
3/6/2001	34,000	12,000	NA	15,000	100	1,100	130	4,000	< 50	< 50	< 50	2,100
6/6/2001	34,000	20,000	NA	14,000	94	550	110	4,400	< 50	< 50	< 50	2,300
MW-4												
8/16/1999	61***	1,100*	< 500	< 0.5	< 0.5	< 0.5	< 1.0	86	NA	NA	NA	NA
12/6/1999	130***	220*	< 500	< 1.0	< 1.0	< 1.0	< 1.0	130	NA	NA	NA	NA
3/8/2000	< 50	220*	< 500	< 0.5	< 0.5	< 0.5	< 0.5	130	NA	NA	NA	NA
6/14/2000	< 50	< 50	< 100	< 0.5	< 0.5	< 0.5	< 0.5	100	< 0.5	< 0.5	< 0.5	20
12/11/2000	< 50	< 50	< 100	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	16
3/6/2001	< 50	670	NA	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	9.9
6/6/2001	< 50	790	NA	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	20
MW-5												
12/6/1999	450***	2,000*	< 500	< 1.0	< 1.0	< 1.0	< 1.0	21	NA	NA	NA	NA
3/8/2000	51***	530*	< 500	< 0.5	< 0.5	< 0.5	< 0.5	84	NA	NA	NA	NA
6/14/2000	380	1,400	< 100	< 0.5	< 0.5	< 0.5	< 0.5	160	12	< 0.5	< 0.5	22
12/11/2000	540	590	< 100	< 0.5	< 0.5	< 0.5	< 0.5	240	9.5	< 0.5	< 0.5	32
3/6/2001	510	2,900	NA	< 0.5	< 0.5	< 0.5	< 0.5	140	13	< 0.5	< 0.5	19
6/6/2001	280	2,700	NA	< 0.5	< 0.5	< 0.5	< 0.5	180	13	< 0.5	< 0.5	26
MW-6												
12/6/1999	13,000	< 50	< 500	180	21	11	24	< 100	NA	NA	NA	NA
3/8/2000	< 10,000	4,600*	< 500	230	26	18	39	12,000	NA	NA	NA	NA
6/14/2000	8,400	12,000	< 100	190	12	9.5	22	15,000	< 5.0	< 5.0	70	3,300
12/11/2000	< 5,000	10,000	< 100	190	< 50	< 50	< 50	14,000	< 50	< 50	74	2,900
3/6/2001	5,300	6,700	NA	220	< 50	< 50	< 50	13,000	< 50	< 50	84	2,100
6/6/2001	5,000	23,000	NA	210	< 25	< 25	< 25	12,000	< 25	< 25	84	4,200
DHS MCL	NE	NE	NE	1	150	700	1750	13	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	1.1	ND	ND	ND	< 2.0	9.0	< 5.0	1.9	< 10
<u>MW-4</u>									
8-16-99	< 0.5	ND	ND	ND	2.7	4.5	260	5.5	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**.

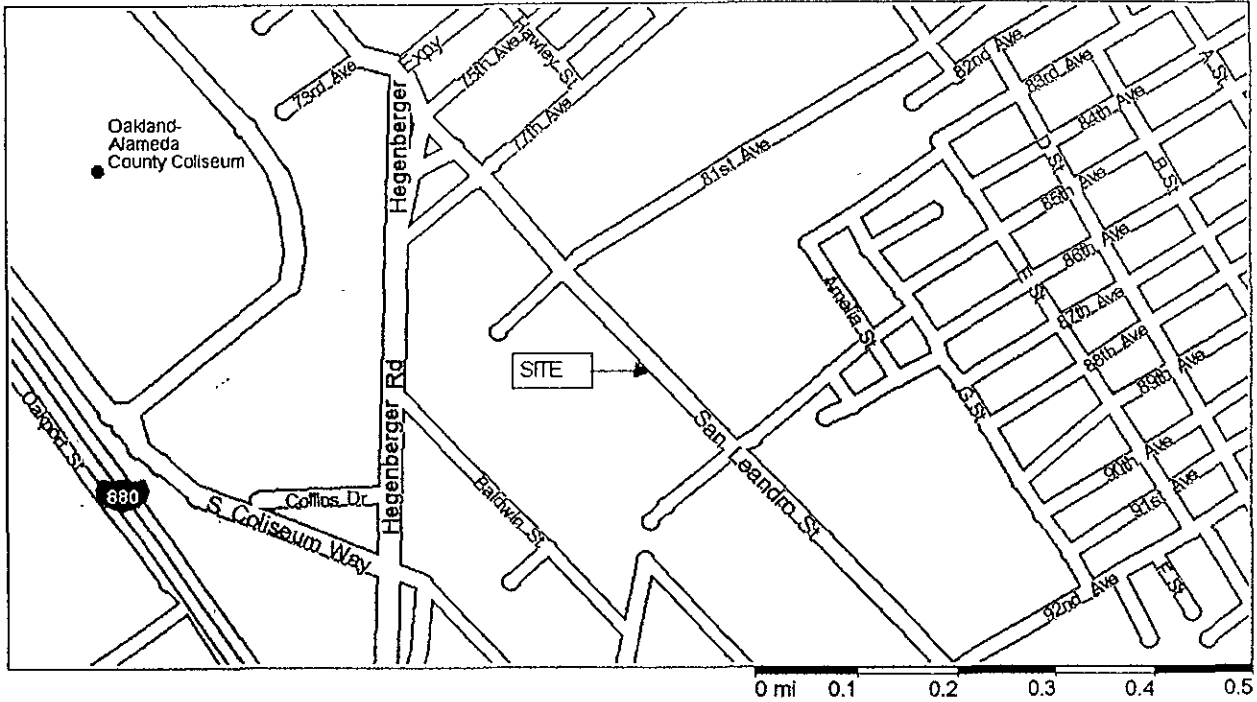
MCL is the California Department of Health Services maximum contaminant level for drinking water.

NE = Not established

FIGURES



NORTH



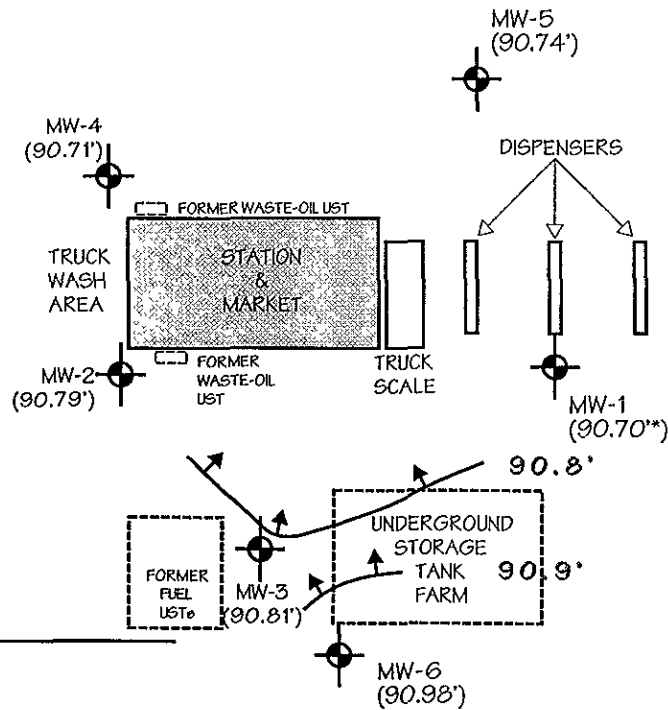
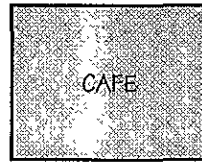
LOCATION MAP

OAKLAND TRUCK STOP
8255 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

Figure 1

PROPERTY BOUNDARIES



SAN LEANDRO STREET

LEGEND



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

(91.70'*)

GROUNDWATER ELEVATION ADJUSTED FOR FREE-FLOATING HYDROCARBON THICKNESS



NORTH

90.9'

POTENTIOMETRIC SURFACE CONTOUR

SCALE
1" = 50'

POTENTIOMETRIC SURFACE CONTOUR MAP
JUNE 6, 2001

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 TS
Job #: 3540 Date of sampling: 6/6/01
Well Name: 116-1 Sampled by: EP
Total depth of well (feet): - Well diameter (inches): 2
Depth to water before sampling (feet): 7.60 H₂O 6.12 prod
Thickness of floating product if any: 1.48
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: _____

Handwritten: No Product Sampled

CHEMICAL DATA

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

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: Oakland TS
 Job #: 3540 Date of sampling: 6/6/01
 Well Name: MW-2 Sampled by: EP
 Total depth of well (feet): 15.5 Well diameter (inches): 2
 Depth to water before sampling (feet): 6.03
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 9.47
 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: bailer
 Time Evacuation Began: 1035 Time Evacuation Finished: 1100
 Approximate volume of groundwater purged: 6.5
 Did the well go dry?: no After how many gallons: -
 Time samples were collected: 1105
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: 290%
 Samples collected with: bailer
 Sample color: clear/gray Odor: none
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>73.1</u>	<u>6.78</u>	<u>2194</u>
<u>2</u>	<u>73.0</u>	<u>6.77</u>	<u>2200</u>
<u>3</u>	<u>72.6</u>	<u>6.76</u>	<u>1924</u>
<u>4</u>	<u>71.0</u>	<u>7.76</u>	<u>1861</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-2</u>	<u>5</u>	<u>40ml VOA</u>	<u>x</u>	<u>x</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Oakland Truck stop
 Job #: 3540 Date of sampling: 6/6/01
 Well Name: MW-3 Sampled by: EP
 Total depth of well (feet): 15.50 Well diameter (inches): 2
 Depth to water before sampling (feet): 5.62
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 9.88
 Number of gallons per well casing volume (gallons): 1.68
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 6.7
 Equipment used to purge the well: bailer
 Time Evacuation Began: 1000 Time Evacuation Finished: 1020
 Approximate volume of groundwater purged: 7
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1025
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: 790%
 Samples collected with: bailer
 Sample color: clear/grey Odor: moderate HC odor
 Description of sediment in sample: silt to fine Sand

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>76.3</u>	<u>6.95</u>	<u>2281</u>
<u>2</u>	<u>75.7</u>	<u>6.94</u>	<u>2242</u>
<u>3</u>	<u>72.1</u>	<u>6.96</u>	<u>1879</u>
<u>4</u>	<u>70.4</u>	<u>6.97</u>	<u>1632</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-3</u>	<u>5</u>	<u>40 ml VOA</u>	<u>x</u>	<u>x</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Oakland TS
 Job #: 3540 Date of sampling: 6/6/01
 Well Name: MW-4 Sampled by: EP
 Total depth of well (feet): 14.75 Well diameter (inches): 2
 Depth to water before sampling (feet): 5.89
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 8.86
 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: bailey
 Time Evacuation Began: 12:11:50 Time Evacuation Finished: 12:10
 Approximate volume of groundwater purged: 6
 Did the well go dry?: no After how many gallons: -
 Time samples were collected: 12:15
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: 790%
 Samples collected with: bailey
 Sample color: gray/brown Odor: none
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>74.1</u>	<u>7.17</u>	<u>1789</u>
<u>2</u>	<u>73.6</u>	<u>7.18</u>	<u>1741</u>
<u>3</u>	<u>72.8</u>	<u>7.16</u>	<u>16.91</u>
<u>4</u>	<u>72.1</u>	<u>7.14</u>	<u>16.72</u>
	<u>72.1</u>		<u>16.72</u>

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: Oakland T S
 Job #: 3846 Date of sampling: 6/6/01
 Well Name: MW-5 Sampled by: EP
 Total depth of well (feet): 13.7 Well diameter (inches): 2
 Depth to water before sampling (feet): 5.56
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 8.14
 Number of gallons per well casing volume (gallons): 1.38
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 5.5
 Equipment used to purge the well: bailer
 Time Evacuation Began: 1225 Time Evacuation Finished: 1245
 Approximate volume of groundwater purged: 5.5
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1255
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: 790%
 Samples collected with: bailer
 Sample color: clear Odor: none
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>79.0</u>	<u>6.71</u>	<u>2072</u>
<u>2</u>	<u>77.8</u>	<u>6.89</u>	<u>19.42</u>
<u>3</u>	<u>6.89-76.8</u>	<u>6.89</u>	<u>1894</u>
<u>4</u>	<u>70.9</u>	<u>6.85</u>	<u>1731</u>

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: Oakland Truck Stop
 Job #: 3540 Date of sampling: 6/6/01
 Well Name: MW-6 Sampled by: EP
 Total depth of well (feet): 14.0' Well diameter (inches): 2
 Depth to water before sampling (feet): 5.81
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): 8.19
 Number of gallons per well casing volume (gallons): 1.39
 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: bailer
 Time Evacuation Began: 1120 Time Evacuation Finished: 1140
 Approximate volume of groundwater purged: 5.5
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1145
 Depth to water at time of sampling: —
 Percent recovery at time of sampling: 790%
 Samples collected with: bailer
 Sample color: clear/gray Odor: slight HCl odor
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>72.3</u>	<u>7.21</u>	
<u>2</u>	<u>70.1</u>	<u>7.09</u>	<u>1009</u>
<u>3</u>	<u>70.2</u>	<u>6.87</u>	<u>1026</u>
<u>4</u>	<u>69.9</u>	<u>6.91</u>	<u>981</u>
			<u>976</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-6</u>	<u>5</u>	<u>40ml VOA</u>	<u>x</u>	<u>x</u>	

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation



Report Number : 20654

Date : 6/27/2001

Eric Paddleford
Aqua Science Engineers, Inc.
208 West El Pintado Rd.
Danville, CA 94526

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

Dear Mr. Paddleford,

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 : 20654

Date : 6/27/2001

Project Name : Oakland Truck Stop (OTS)

Project Number : 3540


Sample : MW-2

Matrix : Water

Lab Number : 20654-01

Sample Date :6/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.6	0.50	ug/L	EPA 8260B	6/15/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Ethylbenzene	2.3	0.50	ug/L	EPA 8260B	6/15/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Methyl-t-butyl ether (MTBE)	26	0.50	ug/L	EPA 8260B	6/15/2001
Diisopropyl ether (DIPE)	3.2	0.50	ug/L	EPA 8260B	6/15/2001
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Tert-Butanol	83	5.0	ug/L	EPA 8260B	6/15/2001
TPH as Gasoline	1700	50	ug/L	EPA 8260B	6/15/2001
Toluene - d8 (Surr)	95.9		% Recovery	EPA 8260B	6/15/2001
4-Bromofluorobenzene (Surr)	117		% Recovery	EPA 8260B	6/15/2001
TPH as Diesel	190	50	ug/L	M EPA 8015	6/24/2001

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Report Number : 20654

Date : 6/27/2001

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

Project Number : **3540**

Sample : **MW-3**

Matrix : **Water**

Lab Number : **20654-02**

Sample Date : **6/6/2001**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	14000	50	ug/L	EPA 8260B	6/20/2001
Toluene	94	50	ug/L	EPA 8260B	6/20/2001
Ethylbenzene	550	50	ug/L	EPA 8260B	6/20/2001
Total Xylenes	110	50	ug/L	EPA 8260B	6/20/2001
Methyl-t-butyl ether (MTBE)	4400	50	ug/L	EPA 8260B	6/20/2001
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	6/20/2001
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	6/20/2001
Tert-amyl methyl ether (TAME)	< 50	50	ug/L	EPA 8260B	6/20/2001
Tert-Butanol	2300	500	ug/L	EPA 8260B	6/20/2001
TPH as Gasoline	34000	5000	ug/L	EPA 8260B	6/20/2001
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	6/20/2001
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	6/20/2001
TPH as Diesel	20000	50	ug/L	M EPA 8015	6/24/2001

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Report Number : 20654

Date : 6/27/2001

Project Name : Oakland Truck Stop (OTS)

Project Number : 3540

Sample : MW-4

Matrix : Water

Lab Number : 20654-03

Sample Date :6/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Methyl-t-butyl ether (MTBE)	110	0.50	ug/L	EPA 8260B	6/15/2001
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/15/2001
Tert-Butanol	20	5.0	ug/L	EPA 8260B	6/15/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/15/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/15/2001
4-Bromofluorobenzene (Surr)	115		% Recovery	EPA 8260B	6/15/2001
TPH as Diesel	790	50	ug/L	M EPA 8015	6/24/2001

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Report Number : 20654

Date : 6/27/2001

Project Name : Oakland Truck Stop (OTS)

Project Number : 3540

Sample : MW-5

Matrix : Water

Lab Number : 20654-04

Sample Date :6/6/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/16/2001
Methyl-t-butyl ether (MTBE)	180	0.50	ug/L	EPA 8260B	6/16/2001
Diisopropyl ether (DIPE)	13	0.50	ug/L	EPA 8260B	6/16/2001
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/16/2001
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/16/2001
Tert-Butanol	26	5.0	ug/L	EPA 8260B	6/16/2001
TPH as Gasoline	280	50	ug/L	EPA 8260B	6/16/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/16/2001
4-Bromofluorobenzene (Surr)	109		% Recovery	EPA 8260B	6/16/2001
TPH as Diesel	2700	50	ug/L	M EPA 8015	6/24/2001

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Report Number : 20654

Date : 6/27/2001

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

Project Number : **3540**

Sample : **MW-6**

Matrix : **Water**

Lab Number : **20654-05**

Sample Date : **6/6/2001**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	210	25	ug/L	EPA 8260B	6/20/2001
Toluene	< 25	25	ug/L	EPA 8260B	6/20/2001
Ethylbenzene	< 25	25	ug/L	EPA 8260B	6/20/2001
Total Xylenes	< 25	25	ug/L	EPA 8260B	6/20/2001
Methyl-t-butyl ether (MTBE)	12000	25	ug/L	EPA 8260B	6/20/2001
Diisopropyl ether (DIPE)	< 25	25	ug/L	EPA 8260B	6/20/2001
Ethyl-t-butyl ether (ETBE)	< 25	25	ug/L	EPA 8260B	6/20/2001
Tert-amyl methyl ether (TAME)	84	25	ug/L	EPA 8260B	6/20/2001
Tert-Butanol	4200	250	ug/L	EPA 8260B	6/20/2001
TPH as Gasoline	5000	5000	ug/L	EPA 8260B	6/20/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/20/2001
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	6/20/2001
TPH as Diesel	23000	100	ug/L	M EPA 8015	6/26/2001

Approved By:  _____
Joel Kiff

20654

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) [Signature] (PHONE NO.) _____

PROJECT NAME Oakland Truck Stop (OTS) JOB NO. 3540
 ADDRESS 8255 San Leandro St. Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
SDA TAT

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 5080/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LEAD METALS (S) (EPA 6010+7000)	CADMIUM METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G/BTEX/5 OXY'S (EPA 8260)	TPH-G/BTEX/7 OXY'S / HMOCS (EPA 8260)	COMPOSITE	
MW-2	10/6	1105	W	5		X												X			01
MW-3	11	1025	↓	↓		↓												↓			02
MW-4		1215	↓	↓		↓												↓			03
MW-5		1255	↓	↓		↓												↓			04
MW-6	↓	1145	↓	↓		↓												↓			05

RELINQUISHED BY:
[Signature]
 (signature) (time)
E. Pundlicke
 (printed name) (date)
 Company- AE

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

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

RECEIVED BY LABORATORY:
[Signature] 1020
 (signature) (time)
JOHN CUTLER 060701
 (printed name) (date)
 Company- KIFF ANALYTICAL

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