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July 8, 2002

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QUARTERLY GROUNDWATER MONITORING REPORT JUNE 2002 GROUNDWATER SAMPLING ASE JOB NO. 3540

a t 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

SUL 0 8 2002

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 2002 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.

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2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On June 6, 2002, ASE measured the depth to water in each site groundwater monitoring well using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen using an electronic oil/water interface probe. The presence of free-floating hydrocarbons was confirmed with a disposable bailer half-filled for direct observation. Monitoring well MW-1 contained approximately 0.67-feet of free-floating diesel this quarter. ASE has been conducting weekly free-product removal since the previous quarter and will continue free-product removal this quarter. 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 is presented as Figure 2. Groundwater beneath the site flows to the west and northwest with a gradient of approximately 0.005 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) 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. The certified analytical report and chain-of-custody documentation are included as Appendix B.

4.0 CONCLUSIONS

Monitoring well MW-1 contained approximately 0.67-feet of free-floating diesel hydrocarbons. ASE is currently performing weekly product removal from this well until the free-product is substantially decreased.

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 are very similar to the previous quarter's analytical results.

5.0 RECOMMENDATIONS

ASE recommends that this site remain on a quarterly sampling schedule. The next sampling is scheduled for September 2002. ASE will continue weekly free-product removal from monitoring well MW-1 until free-product is significantly reduced in that well. In addition, ASE will completing the work outlined in ASE's workplan dated February 6, 2001 during the next quarter. The monitoring well installation is scheduled for July 8, 2002.

6.0 REPORT LIMITATIONS

The results presented in this report represent 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.

No. 6586

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

Erik H. Paddleford

Associate Geologist

hald E. Kitan

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

Oakland Truck Stop - June 2002 Sampling

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TABLES

TABLE ONE Groundwater Elevation Data

Oakland Truck Stop 8255 San Leandro Street, Oakland, CA

r			Free-Floating	
Well I.D & Date	Top of Casing Elevation	Depth to Water (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (møl)
Sampled	(mal)	(1001)	(1000)	(11131)
<u>MW-1</u>				
8/16/1999	97.12	Unknown	> 1.0	Unknown
8/27/1999	•	6.90	0.36	90.51*
9/10/1999		6.85	0.18	90.41*
9/24/1999		6.65	0.08	90.53*
10/8/1999		6.87	0.28	90.47*
10/22/1999		6.81	0.23	90.49*
11/2/1999		6.94	<i>O</i> .31	90.43*
11/19/1999		6.91	0.12	90.31*
12/6/1999		6.93	0.12	90.29*
3/8/2000		5.93	<i>O</i> .21	91.36*
6/14/2000		6.57	0.72	90.41*
12/11/2000		6.70	0.60	90.90*
3/6/2001		5.75	0.40	91.69*
6/6/2001		7.60 6.80	1.48	90.70*
9/4/2001			0.20	90.48* approx. 92.05*
3/11/2002 6/6/2002		approx. 7.47 6.49	арргох. З 0.67	арргох. 92.05 91.17
6/6/2002		0.49	0.07	91.17
<u>MW-2</u>				
8/16/1999	96.82	6.30		90.52
12/6/1999		8.46		88.36
3/8/2000		9.12		87.70
6/14/2000		8.34		88.48
12/11/2000		5.94		90.88
3/6/2001		4.70		92.12
6/6/2001		6.03		90.79
9/4/2001		6.34	,.	90.48
3/11/2002		4.89		91.93
6/6/2002		5.69		91.13
MW-3				
8/16/1999	96.43	5.85		90.58
12/6/1999		5.7 <i>0</i>		90.73
3/8/2000		5.32		91.11
6/14/2000		6.95		89.48
12/11/2000		6.22		90.21
3/6/2001		4.83		91.60
6/6/2001		5.62		90.81
9/4/2001		5.91		90.52
3/11/2002		4.42		92.01
6/6/2002		5.19		91.24

TABLE ONE

Groundwater Elevation Data

Oakland Truck Stop 8255 San Leandro Street, Oakland, CA

			Free-Floating	
Well I.D & Date	Top of Casing Elevation	Depth to Water	Hydrocarbon Thickness	Groundwater Elevation
Sampled	(møl)	(feet)	(feet)	(møl)
<u>MW-4</u>				
8/16/1999	96.60	6.12		90.48
12/6/1999		5.98	pr sec	90.62
3/8/2000		4.32		92.28
6/14/2000		5.58		91.02
12/11/2000		5.7 <i>0</i>	4.4	90.90
3/6/2001		4.46		92.14
6/6/2001		5.89		<i>90.</i> 71
9/4/2001		6.16		90.44
3/11/2002		4.67		91.93
6/6/2002		5.5 <i>0</i>		91.10
<u>MW-5</u>				
12/6/1999	96.30	5.94	***	90.36
3/8/2000		4.06		92.24
6/14/2000		5.25		91.05
12/11/2000		5.45		90.85
3/6/2001		4.12	~ **	92.18
6/6/2001		5.56	, ·-	90.74
9/4/2001		5.84		90.46
3/11/2002		4.38		91.92
61612002		5.16		91.14
MW-6				
12/6/1999	96.79	5.80		00.00
3/8/2000	30.73	4.10		90.99 92.69
6/14/2000		5.64	<i>-</i>	
12/11/2000		5.72		91.15
3/6/2001		5.72 4.32		91.07
6/6/2001		5.81	J .	92.47
9/4/2001		5.01 6.12		90.98
3/11/2002		6.12 4.49		90.67
6/6/2002		4.49 5.33		92.30
UIUIZUUZ		5,55		91.46

<u>Notes:</u>

^{* =} Groundwater elevation adjusted for the presence of free-floating hydrocarbons by the equation: Adjusted groundwater elevation = Top of of casing elevation - depth to groundwater + (0.8×10^{-5}) 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	TPH	TPH	TPH			Ethyl	Total					
DATE	Gasoline	Di <u>e</u> sel	Motor Oil	Benzene	Toluene	Benzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA
1.847.4											· · · · · · · · · · · · · · · · · · ·	·
<u>MW-1</u> 8/16/1999					Not Gamaia di	Duata Essa Flast	ماسم و ماسان ما	1046				
12/6/1999						Due to Free-Float Due to Free-Float						
3/8/2000						Due to Free-Float						
6/14/2000						Due to Free-Float						
12/11/2000						Due to Free-Float				•		
3/6/2001						Due to Free-Float						
6/6/2001						Due to Free-Float						
9/4/2001					- 1	Due to Free-Float						
3/11/2002						Due to Free-Float						
6/6/2002						Due to Free-Float						
					, in the second		J - U					
<u>MW-2</u>												
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	1,5 <i>00</i>	1, <i>400</i>	NA	2.2	< 0.5	1.7	< 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	< <i>0</i> .5	<i>8</i> 3
9/4/2001	2,000	450	NA	2.7	< 0.5	2.1	< 0.5	33	3.4	< 0.5	< 0.5	93
3/11/2002	1, 1 00	410	NA	1.0	< 0.5	<i>0</i> .5	< 0.5	26	2.5	< 0.5	< 0.5	69
6/6/2002	900	430	NA	1.2	< 0.5	< 0.5	< 0.5	23	2.8	< 0.5	< 0.5	73
101/7												
<u>MW-3</u> 8/16/1999	56,000	10,000**	< 500	17,000	2,600	2,600	1,200	6,100	NA	NA	NA	NA
	•						100	2,200/4.000#	NA	NA	NA	NA
12/6/1999	40,000	9,100*	< 500	16,000	140	1,800	130	2,20074,000# 3,400	NA NA	NA NA	NA NA	NA NA
3/8/2000	22,000	4,500*	< 500	11,000	72	1,100		•				2,700
6/14/2000	34,000	16,000	< 100	13,000	94	1,3 <i>00</i>	160	4,800	31	< 10	21	
12/11/2000	24,000	14,000	< 100	13,000	88 100	7 <i>80</i>	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	55 <i>0</i>	110	4,400	< 50	< 50	< 50 × 50	2,300
9/4/2001	29,000	19,000	NA	13,000	83	480	<i>8</i> 3	4,100	< 5 <i>0</i>	< 50	< 50	3,400
3/11/2002	12,000	14,000	NA	2,900	< 20	110	< 20	530	< 20	< 20	< 20	330
6/6/2002	20,000	14,000	NA	10,000	< 5 <i>0</i>	200	51	2,400	< 50	< 50	< 50	1,200

TABLE TWO

Summary of Chemical Analysis of GROUNDWATER Samples

Petroleum Hydrocarbons All results are in parts per billion

Well ID	TPH	TPH	TPH		······	Ethyl	Total		 _			
DATE	Gasoline	Diesel	Motor Oil	Benzene	Toluene	Benzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA
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 NA
3/8/2000	< 50	220*	< 500	< 0.5	< 0.5	< 0.5	< 0.5	130	NA.	NA	NA.	NA
6/14/2000	< 5 <i>0</i>	< 5 <i>0</i>	< 100	< 0.5	< 0.5	< 0.5	< 0.5	100	< 0.5	< 0.5	< 0.5	20
12/11/2000	<50	< 5 <i>0</i>	< 100	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	16
3/6/2001	< 5 <i>0</i>	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
9/4/2001	< 50	95 <i>0</i>	NA.	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	26
3/11/2002	< 50	250	NA.	< 0.5	< 0.5	< 0.5	< 0.5	84	< 0.5	< 0.5	< 0.5	21
6/6/2002	<50	710	NA	< 0.5	< 0.5	< 0.5	< 0.5	92	< 0.5	< 0.5	< 0.5	21
0,0,2002	100	, ,,,		10.0	(0.0	10.0	10.0	02	10.0	(0,0	(0.0	
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
9/4/2001	63O	2,600	NA	< 0.5	< 0.5	< 0.5	< 0.5	18 <i>0</i>	9.4	< 0.5	< 0.5	29
3/11/2002	97	3,500	NA	< 0.5	< 0.5	< 0.5	< 0.5	29	0.79	< 0.5	< 0.5	7.4
6/6/2002	61	3,500	NA	< 0.5	< 0.5	< 0.5	< 0.5	15 <i>0</i>	2.9	< 0.5	< 0.5	34
<u>MW-6</u>												
12/6/1999	13,000	< 50	< 500	180	21	11	24	< 100	NA	NA	NA	NA
3/8/2000	< 10,000	4,600*	< 5 <i>00</i>	230	26	18	39	12,000	NA	NA	NA	NA
6/14/2000	8,400	12,000	< 100	19 <i>0</i>	12	<i>9</i> .5	22	15,000	< 5.0	< 5.0	70	3,300
12/11/2000	< 5,000	10,000	< 100	19 <i>0</i>	< 50	< 50	< 50	14,000	< 50	< 5 <i>0</i>	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
9/4/2001	5,400	22,000	NA	19 <i>0</i>	12	< 10	23	15,000	< 10	< 10	79	4,000
3/11/2002	4,600	11,000	NA	160	< 25	< 25	< 25	15,000	< 25	< 25	39	5,100
6/6/2002	< 5,000	14,000	NA	200	< 50	< 50	< 50	17,000	< 50	< 5 <i>0</i>	77	8,700
							and a second second				44.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	

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

	Isopropyl	- Other							
Boring	benzene	VOCs	SVOCs	PCBs	Cd	Cr	Pb	Ni	Zn
MW-2	. 								
8-16-99	1 1	ND	ND	ND	< 2.0	9.0	< 5.0	19	< 10
								- 1	
<u>MW-4</u>									
8-16-99	< 0.5	ND	ND	ND	2.7	4 5	260	5 5	3 2 0
12-06-99							< 5		
MCL	NE	Various	Various	0.5	5	50	1 5	100	5,000

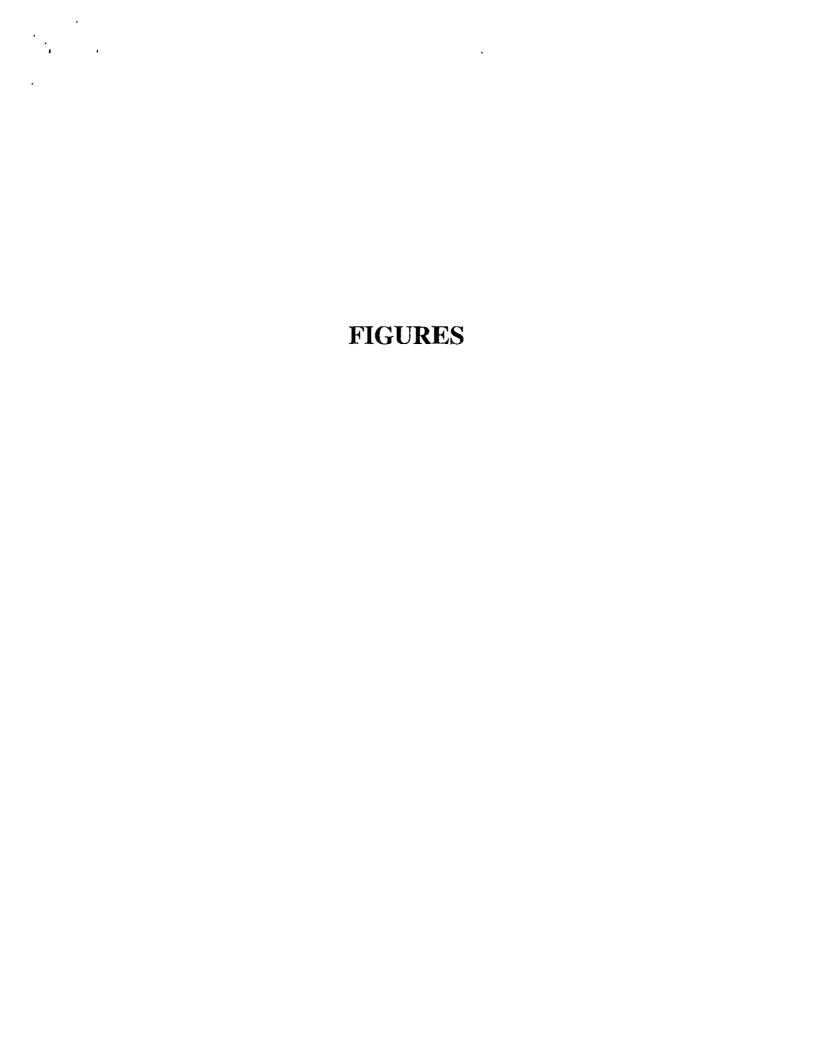
Notes:

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.

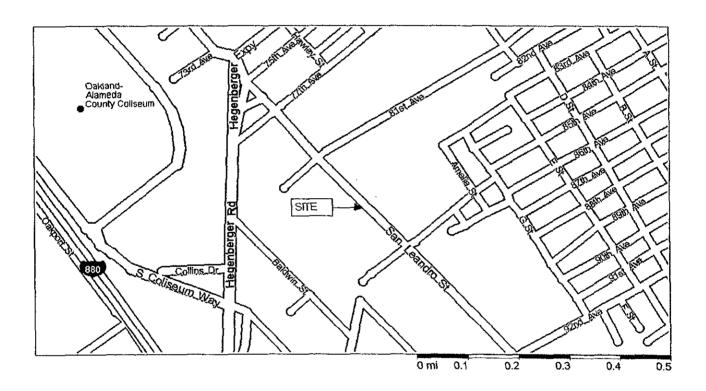
Detectable concentrations are in bold.

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

NE = Not established







LOCATION MAP

OAKLAND TRUCK STOP 8255 SAN LEANDRO STREET OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

Figure 1

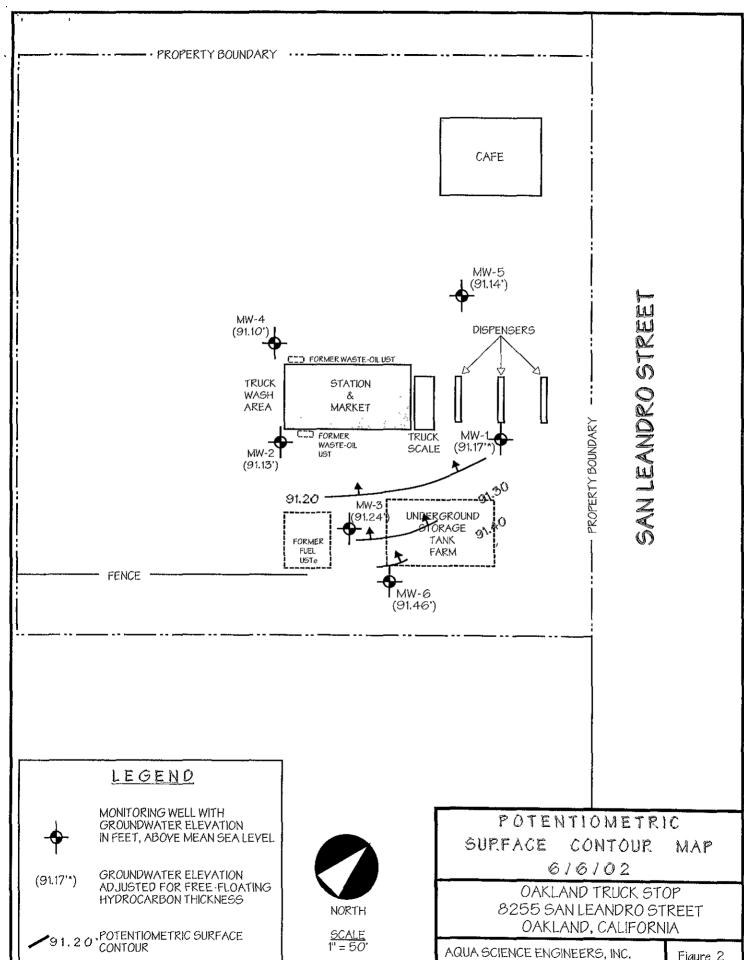


Figure 2

APPENDIX A

Well Sampling Field Logs



Project Name and Address:	UGKIENG IFFER SION
Job #: 35%	Date of sampling: ? 6/6/02
Well Name:	Sampled by:
Total depth of well (feet):	Date of sampling: 6/6/02 Sampled by: E/ Well diameter (inches): 2
Depth to water before sampling	g (leet): 6.49
N INICKNESS OF HOAFING product 1	tanv, AAT
Depth of Well casing in water	(teet):
Number of gallons per well ca	sing volume (gallons):
Number of well casing volume	es to be removed:
Reald Volume of aroundwater t	io ha nurgad kafami samuling / 10)
Equipment used to purge the	well:
Time Evacuation Began:	Time Evacuation Finished:
Approximate volume of ground	well: Time Evacuation Finished: dwater purged: After how many attlements
Did the well go dry?:	After how many gallons:
Time samples were collected:	After how many gallons:
Depth to water at time of sam	pling:
Percent recovery at time of sa	impling:
Samples collected with:	Odor:
Sample color:	\ \ Odor:
Description of sediment in san	nple:
•	
CHEMICAL DATA	
Volume Thomas Co.	
Volume Purged Temp	pH Conductivity
SAMPI ES COLLECTED	
SAMPLES COLLECTED	
Sample # of containers Volume &	
Sample # of containers volume &	type container Pres Iced? Analysis
<u> </u>	



	Name and Ac	idress:	USKIGHA	True STO	ρ	
Job #: _	3540		Date of	sampling:	6/6/02	
	ame: wy-		Sampled			···
Total d	epth of well (f	eet): <u>15.</u>	50	Well diam	neter (inches):	2
	to water before			69	(
	ess of floating			,		
Depth of	of well casing	in water (fe	eet): 7.8	1	·	
Number	of gallons pe	r well casi	ng volume	(gallons): /	56	· ·
Number	of well casin	g volumes	to be remo	oved: 3		
Req'd v	olume of grou	ndwater to	be purged	before same	nling (gallone)	4.7
Equipm	ent used to pi	irge the we	ill: baller	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1
Time E	vacuation Beg	an: //40	Ti	ne Evacuati	on Finished /	155
Approxi	imate volume	of groundy	vater purge	d: <u>4.5</u>		· ·
Did the	well go dry?:	No	Af	ter how ma	ny gallons:	,
	amples were c		200			
	o water at tim		~		The state of the s	
	recovery at t			in the state of th	1004.1.	
	s collected with			**************************************	· · · · · · · · · · · · · · · · · · ·	
	color:		_ Od	or: noe		
Descrip	tion of sedime	nt in samp	le:	silt		······································
CHEMI	CAL DATA		,			
Volume F	Purged	Temp	pН	Conductiv	<u>ity</u>	
		to0.73.6	6.60	2024	-	
<u>Z</u>		71.8	6 <u>42</u>	2013		
3		70.4	6. <u>35</u>	2008	·	_
					·	ŕ
						
SAMPL	ES COLLECT	ED				
Sample	# of containers	Volume & typ		<u>Pres Iced?</u>	<u>Analysis</u>	
<u>M4-5</u>		40 ml	V04	ナ_メ_	<u></u>	
	~~~~~~~~~~~		··			



Project Name and Address:	Dakland I ruck 1100
Job #: <b>3546</b>	Date of sampling: 6/6/02
Well Name: MW-3	Sampled by: Ep
Total depth of well (feet): 15.06	Well diameter (inches): 2
Depth to water before sampling (	feet): <u>5.19</u>
Thickness of floating product if a	ny:
Depth of well casing in water (fee	
Number of gallons per well casing	
Number of well casing volumes to	
Req'd volume of groundwater to b	pe purged before sampling (gallons): 7.73
Equipment used to purge the wel	1: paily
Time Evacuation Began: 1055	Time Evacuation Finished 1110
Approximate volume of groundwa	iter purged: 4.5
Did the well go dry?:	After how many gallons: -
Time samples were collected: II	
Depth to water at time of sampling	ng:
Percent recovery at time of samp	ling:
Samples collected with: bailer	
Sample color: _Ckal/gray	Odor: marate
Description of sediment in sample	e: <b>si</b> //
CHEMICAL DATA	<b>}</b> ,
Volume Purged Temp	DH Conductivity
	(0.50 1353
	(e.23   1332
	6.19   320
	The company to the company to the company of the co
<u>`</u>	
CAMDI EC COLLECTED	
SAMPLES COLLECTED	
Sample # of containers Volume & type	contained Dura Yarda to t
	10.1
	VVA X X

Project Name and Address			·	
Job #: <b>3540</b>		sampling:	6/6/02	
Well Name:	_ Sampled	l by:	Er	
Total depth of well (feet):	<u>/4.75</u>	. Well diar	neter (inches): _	
Depth to water before sam		56		
Thickness of floating produ	ct if any:		<u> </u>	
Depth of well casing in wa	ter (feet): $\underline{9}$	25		
Number of gallons per wel	l casing volume	(gallons): 1	.47	
Number of well casing vol	umes to be rem	oved: <b>3</b> _		·
Req'd volume of groundwat	er to be purged	before sam	pling (gallons):	4.44
Equipment used to purge t			<del></del>	
Time Evacuation Began: 12	<u> </u>	me Evacuat	ion Finished: 13	552
Approximate volume of gr	oundwater purge	od: 37. 2		<del></del>
Did the well go dry?:	A /2 8 A	iter how m	any gallons:	<del></del> ,
Depth to water at time of				<del>~</del> .
Percent recovery at time of				<del>~~~</del>
Samples collected with: bu		· · · · · · · · · · · · · · · · · · ·		<del>``</del>
Sample color: gray/brown		dor: nave	<del></del>	
Description of sediment in	sample: Se	7:		·
*	P			
CHEMICAL DATA				
·	•			
Volume Purged Tem	<u>pH</u>	Conductiv		
74.1		1632		
<u> </u>	<del></del>	1634	<del></del>	
<u> </u>	<u> 6.89</u>	1642		
	<del></del>		——«—— «	ŕ
SAMPLES COLLECTED				
		Pres Iced?	<u>Analysis</u>	
MW-9 5 40	mi VOA	_ <u>x</u> _		



Project Name and Address: Cathad Truck stop
Job #: 35% Date of sampling: 6/6/02
Well Name: Sampled by: 51
Total depth of well (feet): Well diameter (inches): 2
Depth to water before sampling (feet): 5.16
Thickness of floating product if any:
Depth of well casing in water (feet):
Number of gallons per well casing volume (gallons): 1.36
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons):
Equipment used to purge the well: bailey
Time Evacuation Began: 12 70 Time Evacuation Finished: 13 5 5
Approximate volume of groundwater purged to find the second secon
Did the well go dry?: After how many gallons: Time samples were collected: 1305
Time samples were collected: 1305
Depth to water at time of sampling:
Percent recovery at time of sampling: -
Samples collected with:
Sample color: Odor: None
Description of sediment in sample:
CHEMICAL DATA
Volume Purged Temp pH Conductivity
$7/\sqrt{31}$
70.9 6.64 1133
70.9 6.67 1133 3 70.8 6.62 1124
70.9 6.67 1133 70.8 6.62 1124
70.9 6.64 133 70.8 6.62 1124
3 70.8 6.62 1124  SAMPLES COLLECTED
SAMPLES COLLECTED  Sample # of containers Volume & type container Pres Iced? Analysis
SAMPLES COLLECTED
Sample # of containers Volume & type container Pres Iced? Analysis
Sample # of containers Volume & type container Pres Iced? Analysis
Sample # of containers Volume & type container Pres Iced? Analysis
Sample # of containers Volume & type container Pres Iced? Analysis



Project Name and Address:	oakland Truck stup
Job #: 3540	Date of sampling: 6/6/07
Well Name: Mw-6	Sampled by: _EP
Total depth of well (feet):	Well diameter (inches): 2
Depth to water before sample	ing (feet): <u>5.33</u>
Thickness of floating product	if any:
Depth of well casing in water	or (feet). 903
Number of gallons per well	casing volume (gallons): 1.44
Number of well casing volume	nes to be removed: 3
Req'd volume of groundwater	to be purged before sampling (gallons): 4.3
Equipment used to purge the	e well: <b>bajker</b>
Time Evacuation Began: 1030	Time Evacuation Finished 16 45
Approximate volume of ground	undwater purged: 4.5 see some see
Did the well go dry?:	After how many gallons:
Time samples were collected	1: 1050
Depth to water at time of sa	ampling:
Percent recovery at time of	sampling:
Samples collected with: _bail	er .
Sample color:c eur 9	M Odor: Slight
Description of sediment in s	ample: silf
CHEMICAL DATA	, , , , , , , , , , , , , , , , , , ,
Volume Purged Temp	pH Conductivity
76.2	
72.2	
<u> </u>	- 62b <u>952</u>
SAMPLES COLLECTED	
Sample # of containers Volume  My-6  5  YO w	& type container Pres Iced? Analysis

### **APPENDIX B**

Certified Analytical Report and Chain of Custody Documentation



Date: 6/19/02

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

Subject: 5 Water Samples

Project Name: Oakland Truck Stop

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,



Date: 6/19/02

Subject: Project Name: 5 Water Samples Oakland Truck Stop

Project Number:

3540

### Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-6, MW-3 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Date: 6/19/02

Project Name: Oakland Truck Stop

Project Number: 3540

Sample: MW-2

Matrix: Water

Lab Number: 26831-01

Sample	Date	:6/7/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.2	0.50	ug/L	EPA 8260B	6/12/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Methyl-t-butyl ether (MTBE)	23	0.50	ug/L	EPA 8260B	6/12/02
Diisopropyl ether (DIPE)	2.8	0.50	ug/L	EPA 8260B	6/12/02
Ethyl-t-butyl ether (ETBE)	< 0.50	0 50	ug/L	EPA 8260B	6/12/02
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Tert-Butanol	73	5.0	ug/L	EPA 8260B	6/12/02
TPH as Gasoline	900	50	ug/L	EPA 8260B	6/12/02
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	6/12/02
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	6/12/02
TPH as Diesel	430	50	ug/L	M EPA 8015	6/13/02

Approved By: Joel Kiff



Date: 6/19/02

Project Name: Oakland Truck Stop

Project Number: 3540

Sample: MW-3

Matrix : Water

Lab Number: 26831-02

Sample Date:6/7/02

Sample Date :6/7/02		Method				
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed	
Benzene	10000	50	ug/L	EPA 8260B	6/16/02	
Toluene	< 50	50	ug/L	EPA 8260B	6/16/02	
Ethylbenzene	200	50	ug/L	EPA 8260B	6/16/02	
Total Xylenes	51	50	ug/L	EPA 8260B	6/16/02	
Methyl-t-butyl ether (MTBE)	2400	50	ug/L	EPA 8260B	6/16/02	
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	6/16/02	
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	6/16/02	
Tert-amyl methyl ether (TAME)	< 50	50	ug/L	EPA 8260B	6/16/02	
Tert-Butanol	1200	500	ug/L	EPA 8260B	6/16/02	
TPH as Gasoline	20000	5000	ug/L	EPA 8260B	6/16/02	
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	6/16/02	
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	6/16/02	
TPH as Diesel	14000	50	ug/L	M EPA 8015	6/13/02	

Approved By: Joel Kiff



Date: 6/19/02

Project Name: Oakland Truck Stop

Project Number: 3540

Sample: MW-4

Matrix: Water

Lab Number : 26831-03

Sample Date :6/7/0:	2
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Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Toluene	< 0.50	0 50	ug/L	EPA 8260B	6/12/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Methyl-t-butyl ether (MTBE)	92	0.50	ug/L	EPA 8260B	6/12/02
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/12/02
Tert-Butanol	21	5.0	ug/L	EPA 8260B	6/12/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/12/02
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	6/12/02
4-Bromofluorobenzene (Surr)	95.1		% Recovery	EPA 8260B	6/12/02
TPH as Diesel	710	50	ug/L	M EPA 8015	6/13/02

Approved By: Joel Kiff



Date: 6/19/02

Project Name: Oakland Truck Stop

Project Number: 3540

Sample: MW-5

Matrix: Water

Lab Number : 26831-04

Sample Date:6/7/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/12/02	
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/12/02	
Ethylbenzenø	< 0.50	0.50	ug/L	EPA 8260B	6/12/02	
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/12/02	
Methyl-t-butyl ether (MTBE)	150	0.50	ug/L	EPA 8260B	6/12/02	
Dilsopropyl ether (DIPE)	2.9	0 50	ug/L	EPA 8260B	6/12/02	
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/12/02	
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/12/02	
Tert-Butanol	34	5.0	ug/L	EPA 8260B	6/12/02	
TPH as Gasoline	61	50	ug/L	EPA 8260B	6/12/02	
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/12/02	
4-Bromofluorobenzene (Surr)	96.9		% Recovery	EPA 8260B	6/12/02	
TPH as Diesel	3500	50	ug/L	M EPA 8015	6/13/02	

Approved By: Joel Kiff



Date: 6/19/02

Project Name: Oakland Truck Stop

Project Number: 3540

Sample: MW-6

Matrix: Water

Lab Number: 26831-05

Sample Date :6/7/02		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	200	50	ug/L	EPA 8260B	6/16/02
Toluene	< 50	50	ug/L	EPA 8260B	6/16/02
Ethylbenzene	< 50	50	ug/L	EPA 8260B	6/16/02
Total Xylenes	< 50	50	ug/L	EPA 8260B	6/16/02
Methyl-t-butyl ether (MTBE)	17000	50	ug/L	EPA 8260B	6/16/02
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	6/16/02
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	6/16/02
Tert-amyl methyl ether (TAME)	77	50	ug/L	EPA 8260B	6/16/02
Tert-Butanol	8700	500	ug/L	EPA 8260B	6/16/02
TPH as Gasoline	< 5000	5000	ug/L	EPA 8260B	6/16/02
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/16/02
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	6/16/02
TPH as Diesel	14000	50	ug/L	M EPA 8015	6/13/02

Approved By: Joel Kiff

Date: 6/19/02

QC Report : Method Blank Data

Project Name: Oakland Truck Stop

Project Number: 3540

Parameter	Measured Value	Method Reporti Limit		Analysis Method	Date Analyzed	<u>Parameter</u>	Measured Value	Method Reportin	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	6/12/02					
Benzene Toluene Ethylbenzene Total Xylenes Methyl-t-butyl ether (MTBE) Diisopropyl ether (DIPE) Ethyl-t-butyl ether (ETBE) Tert-amyl methyl ether (TAME) Tert-Butanol	< 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	6/15/02 6/15/02 6/15/02 6/15/02 6/15/02 6/15/02 6/15/02 6/15/02 6/15/02					
TPH as Gasoline Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	< 50 98 1 101	50	ug/L % %	EPA 8260B EPA 8260B EPA 8260B	6/15/02 6/15/02 6/15/02					
Benzene Toluene Ethylbenzene Total Xylenes Methyl-t-butyl ether (MTBE)	< 0 50 < 0 50 < 0.50 < 0.50 < 0.50	0 50 0.50 0.50 0 50 0 50	ug/L ug/L ug/L ug/L ug/L	EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	6/12/02 6/12/02 6/12/02 6/12/02 6/12/02					
Disopropyl ether (DIPE) Ethyl-t-butyl ether (ETBE) Tert-amyl methyl ether (TAME) Tert-Butanol TPH as Gasoline Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	< 0.50 < 0.50 < 0.50 < 5.0 < 50 99 7 94.8	0 50 0 50 0.50 5.0 50	ug/L ug/L ug/L ug/L ug/L %	EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02					

pproved By: Joel

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

KIFF ANALYTICAL, LLC

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Date: 6/19/02

Project Name : Oakland Truck Stop

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Number: 3540

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	e Units	Analysis Method	Date Analyzed	Percent	Duplicat Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	836	868	ug/L	M EPA 8015	6/12/02	83.6	86.8	3.66	70-130	25
Benzene	26846-01	<0.50	19.6	19.6	21.0	21.0	ug/L	EPA 8260B	6/15/02	107	107	0.327	70-130	25
Toluene	26846-01	<0.50	19.6	19.6	19.8	19.8	ug/L	EPA 8260B	6/15/02	101	101	0.0496	70-130	25
Tert-Butanol	26846-01	<5.0	97.9	98.1	110	109	ug/L	EPA 8260B	6/15/02	112	111	0.650	70-130	25
Methyl-t-Butyl Ethe	r 26846-01	110	19.6	19.6	105	105	ug/L	EPA 8260B	6/15/02	0.00	0.00	0.00	70-130	25
Benzene	26831-01	1.2	40.0	40.0	40.8	40.2	ug/L	EPA 8260B	6/12/02	98.9	97.5	1.45	70-130	25
Toluene	26831-01	< 0.50	40.0	40.0	39.7	39.2	ug/L	EPA 8260B	6/12/02	99.2	97.9	1.34	70-130	25
Tert-Butanol	26831-01	73	200	200	279	278	ug/L	EPA 8260B	6/12/02	103	103	0.514	70-130	25
Methyl-t-Butyl Ethe	r 26831-01	23	40.0	40.0	60.3	60.6	ug/L	EPA 8260B	6/12/02	92.6	93.4	0.779	70-130	25

opproved By: Joel

KIFF ANALYTICAL, LLC

Date: 6/19/02

Project Name: Oakland Truck Stop

QC Report : Laboratory Control Sample (LCS)

Project Number: 3540

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	6/14/02	107	70-130
Toluene	40.0	ug/L	EPA 8260B	6/14/02	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/14/02	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/14/02	97.4	70-130
Benzene	40.0	ug/L	EPA 8260B	6/12/02	96.0	70-130
Toluene	40.0	ug/L	EPA 8260B	6/12/02	96.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/12/02	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/12/02	80.5	70-130

KIFF ANALYTICAL, LLC

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

# Chain of Custody 2683/

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SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	1 TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DESEL & 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) —	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBa & 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 0XY'S (EPA 8260)	TPH-G/BTEX/7 0XY'S / LEAD SCAVANGERS/ 12-0VP	PA 89	TOTAL PISSOLVED SOLIDS (TDS)	HOLD
	+	1	1.1.		(E 17	中田	FE '	150	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u>20</u>	<u>  ≦</u>	三巴	<u>\$⊞</u> !	2 m	10 K m	135	8里	FE)	##:	<u> </u>	+	+
MW-2	6/7/12		Water	5	1-	<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	<del> </del> '	<del></del> '	<del></del>	<del> </del> '	4	<del> </del> '	<u>—</u> '	<del>                                     </del>	<del> </del>	<del> </del> '	<b></b> '	$\bowtie$	-			31
MW-3	+	1115	<del></del>		<b> </b> '	<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	<del> </del> '	<b> </b>	1	<del> </del>	1-		<del> </del> '	<del>  '</del>	1	<del></del>	<del> </del> '	$\leftarrow$			+ +	or
MW-4		1230	+	1-1-	<u> </u>	₩'	<del> </del> '	<del></del>	<del> </del>	<del> </del>	1	<del> </del> '	<del></del> '	₩	<del>  </del>	<del> </del>	4/	$\bowtie$	<del></del>		<del>                                     </del>	63
M4-5		1305	+-	<del>   ,  </del>	<b></b> '	<del>  \                                   </del>	<del> </del> '	+	<del></del> '	1		-	<del></del> '	<del>                                     </del>	1	+	1	X	<del> </del>		-	04
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