QUARTERLY PROPERTIES REPORT 98 DEC -7 PM 14 41 JULY-SEPTEMBER, 1998

TONY'S EXPRESS AUTO SERVICE 3609 EAST 14TH STREET OAKLAND, CALIFORNIA

FOR

Mr. ABOLGHASSEM RAZI TONY'S EXPRESS AUTO SERVICE 3609 EAST 14TH STREET OAKLAND, CA 94601

BY

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1 INTRODUCTION

The following Report documents the performance of a groundwater monitoring round at Tony's Express Auto Services, 3609 East 14th Street, Oakland, California. The property is primarily used as a service station.

During the groundwater monitoring round the following information and samples were gathered; with the results presented in this report.

- Depth to water
- 2. Groundwater samples for TPHg and MBTEX, certified analysis.

2 SITE HISTORY

In July 1993, Alpha Geo Services removed three fuel tanks and a waste oil tank from the site. During the tank pull, Soil Tech Engineering Inc. (STE) collected soil samples from the tank excavation area and the old piping associated with the tanks. Soil samples from the tank area were taken at approximately 12 feet below the surface and range in TPHg concentration from 2.1 to 640 mg/kg. The soil samples from the beneath the old piping, 2 to 5 feet below grade, range in concentration from 75 to 4,100 mg/kg TPHg. No gasoline range hydrocarbons were found in the sample from the waste oil tank excavation.

Since the initial tank pull, STE installed 11 groundwater monitor wells including MW09, which was destroyed (see figure 3 for location of wells). MW09 was destroyed to allow for construction.

In addition to the borings completed as monitor wells, a number of other soil borings have been performed in order to determine the extent of contaminated soil at the site.

3 SITE ACTIVITY July -September, 1998

3.1 GROUNDWATER MONITORING ROUND

A groundwater monitoring round was preformed on September 291998, see Appendix A for methods and procedures. Monitor wells MW1, MW6, and MW8 contained floating product sheen and where not sampled. The remaining wells were purged and water samples for TPHg/MBTEX were collected.

4 RESULTS

4.1 DEPTH TO WATER, GROUNDWATER GRADIENT.

The groundwater at this site is shallow and unconfined. During the initial construction of monitor wells MW01, MW02 and MW03, groundwater was encountered at 15 feet below the surface. The current depth to groundwater in the wells is between 11.93 and 14.68 feet below the surface and the groundwater gradient is to the south, see Figure 4.

4.2 WATER SAMPLES

4.2.1 TPHg/MBTEX

The water samples from all of the wells contained significant levels of TPHg and MBTEX, see Table 2.

4.2.2 Electron Acceptors

During the June 30, 1998 monitor round the last time the acceptors were sampled, dissolved Oxygen, O₂, and Ferrous iron, Fe⁺⁺, were present in all of the monitor wells, see Table 3. The seven of the ten wells tested contained detectable levels of Nitrate, NO₃, and nine of the ten Sulfate, SO₄, see Table 3.

5 DISCUSSION

5.1 HYDROCARBONS

Significant levels of TPHg and BTEX continue to exist at this site. MW01, MW06, and MW8 contained a thin film of floating product. The benzene and TPHg plumes continue offsite, see Figures 6 and 7.

5.2 BIOREMEDIATION

The results of the December 30, 1997, bioremediation sampling indicated that natural attenuation/bioremediation is active at this site. This continued to be the case in the June 30, 1998 sampling.

All of the tested wells have reduced levels of dissolved oxygen. Six of the nine wells had less than 0.1 mg/l of dissolve oxygen in the December 97 sampling. During the June 30, 1998, monitor round all of the wells contained low levels of dissolved Oxygen.

The presence of Ferrous iron in the wells indicates that biodegradation has progressed to the point that the system is oxygen deficient and the bacteria have started to reduce the iron to provide

oxygen for the degradation. With the increase of dissolved oxygen in the wells the amount of Ferrous iron has deceased in a majority of the wells, see table 3.

In December biodegradation in MW02, which is in the heart of the plume, had consumed all of the available electron acceptors. With the start-up of airsparging into P4 and LW1there has been an increase in the amount of dissolved oxygen in the vicinity of MW02.

The levels of electron acceptors present and the presence of the reaction products, carbon dioxide, methane and ferrous iron indicate that the bacteria in the soil and the compounds in the groundwater have the capability to consume a significant amount of hydrocarbons.

Introducing ambient air (O₂) into the system during vapor vacuum extraction and/or sparging will greatly increase this bioactivity

6 CONCLUSIONS

- 1. Continue to add sodium hexametaphosphate and ammonium sulfate to the groundwater monitoring wells, in order increase the nutrition level.
- 2. Continue air sparging to increase Oxygen levels in the groundwater plume.
- 3. Permit and start vapor extraction in order to remove the hydrocarbon contamination remaining in the soil, and to further increase the amount of oxygen available in the groundwater.

If you have any questions concerning this report or if we can be of further assistance, please don't hesitate to contact us at (530) 668-5300.

7 CONCERNED PARTIES

Mr. Abolghassem Razi Tony's Express Auto Services 3609 E. 14th Street Oakland, CA 94601 (415) 457-2178, Fax (415) 453-5520

Mr. Barney Chan Environmental Health Services Environmental Protection (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700, Fax (510) 337-9335

8 LIMITATIONS

This report is based upon the following:

- The observations of field personnel.
- The results of laboratory analyses performed by a state certified laboratory.
- Referenced documents.
- Our understanding of the regulations of the State of California and Alameda County, Hazardous Materials Section and/or City of Oakland, California.

Changes in groundwater conditions can occur due to variations in rainfall, temperature, local and regional water usage and local construction practices. In addition, variations in the soil and groundwater conditions could exist beyond the points explored in this investigation.

State certified analytical results are included in this report. This laboratory follows EPA and State of California approved procedures; however, WEGE is not responsible for errors in these laboratory results.

The services performed by Western Geo-Engineers, a corporation, under California Registered Geologist #3037 and/or Contractors License #513857, have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the State of California and the Woodland area. Our work and/or supervision of remediation and/or abatement operations, active or preliminary, at this site is in no way meant to imply that we are owners or operators of this site. Please note that known contamination of soil and/or groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

If you have any questions concerning this report or if we can be of further assistance, please don't hesitate to contact us at (530) 668-5300.

JACK E.

NAPPER

Respectfully,

Roy Butler

Project Geologist

Jack E. Napper

Registered Geologist #3037

- · · · · · · ·		oundwater Fle	vations			
able 1, I	ony's Express, Gr	DEPTH TO	DEPTH TO	DEPTH TO	DEPTH TO	
	DEPTH TO	WATER	WATER	WATER	WATER	
	TOP SLOTS	12/30/97	03/04/98	06/30/98	09/29/98	
ATE	<u> </u>	12/30/97	- 00/04/05			
	10	9.3	7.53	10.62	13.58	
VW01	10	9.05	7.44	10.58	13.58	
VV02	10	9.74	8.21	11.13	14.68	
MW03	10	9.43	7.96	10.72	13.64	
MW04	7	9.43	7.53	10.85	13.82	
VVV05	6		8.30	11.26	14.10	
MW06	6	9.3	6.93	10.22	13.09	
MW07	6	8.65	7.38	10.33	13.02	
80WM	7	8.95	1.30	10.00		
MW09	8	DESTROYED	7.23	9.52	11,93	
MW10	8	8.78	8.81	11.02	13.24	
MW11	8			GROUND-	GROUND-	
		GROUND-	GROUND-	WATER	WATER	
	CASING	WATER	WATER	ELEVATION	ELEVATION	
	ELEVATION	ELEVATION	ELEVATION	87.37	84.41	
MW01	97.99		90.46	88		
MW02	98.58			86.65	<u></u>	
MW03	97.78				<u> </u>	
MVV04	97.85					
MW05	99.04					
MW06	98.77					
MW07	97.83					
MW08	97.25	88.3	89.87	86.92	04.20	
MW09	95.94				82.61	
MW10	94.54	85.76				
MW11	95.94	4 85.74			<u> </u>	
Avg	97.4		89.83	86.9	84.09	7

DATE	Table 2, ug/l, Gasoline	T	T	<u> </u>				[
DATE	Range Hydrocarbons in	1					٠					
MAYOF Product Sheen Shee	Groundwater	ļ		l								
MAYOL Prince 320000 80000 32	DATE	10/5/93	12/2/94	3/6/95	6/5/95	10/2/95	1/3/96	4/3/96	9/12/96	12/9/96	4/10/97	12/30/97
MAYO1 February F	MW1 Product	sheen	sheen	sheen	sheen	sheen	sheen	sheen			sheen	
MAYON Tell-pissersen 21000 6600 150 650 130 79 120	MW01, TPHg	320000	80000	32000	21000	5900	30000	31000				27000
EANOTI ELEVISIMENTS No. 1.000 1.900 1.	MW01, Benzene	24000	3800	190	950	140	71	98				2300
MAYOS Description 15000	MW01, Toluene	21000	6600	150	650	130	73	120				2100
IAMVIZ. PHys. 1860000	MW01, Ethylbenzene	2600	2300	150	570	140	50	63				1400
INVIDES Servame	MW01, Xylene	15000	11000	490	1500	390	120	170				5100
MVIO2, Denzene 17000 1700 3.2 220 160 7.6 100 210 110 150 49	MW02, TPHg	260000	42000	490	8000	46000	3400	27000	19000	6200	53000	35000
MANDIX EHYPEARSENE	MW02, Benzene	17000	1700	3.2	220	160	7,6	100		110	150	4900
15000 3600 5.8 660 240 26 130 400 14 1120 700		19000	2200	2.6	330	130	13	92	220	6.6	110	4900
MAYO2_Xylene	MW02. Ethylbenzene	570	1200	1.6	350	93	7.4	44	110	2.1	37	1600
MW023 Sheen Shee		15000	3600	5.9	660	240	26	130	400	14	1120	7000
MANO3 TPH											<0.5	
MW03, FPHg						sheen	sheen	sheen			sheen	film
MAYOS, Bergane		3000000	250000	21000	350000	15000	19000	70000	66000	54000	54000	
INVIVOS Tellymber 740000 22000 73 42000 410 270 260 420 280 120 120 140				1					430	320	130	
MWOS, Ellybenzene 310000 4400 35 5800 210 97 88 210 90 38 MWOS, Xylane 13000 26000 130 36000 650 850 850 280 510 250 120 40.5 40.5 41 MWOS, TPHg 9 9300 1100 1900 2100 400.5 40.5 41 MWOS, Tolluene 9 11 1 1.3 7.5 24 6.3 40.5 27 MWOS, Xylane 9 9.9 9.5 2.3 31 42 73 12 40.5 10 MWOS, TPHg 9 1500 850 780 780 780 780 780 780 780 780 780 78					<u> </u>							
MW03, Xylene												
MW03, MTBE												
MWV0A, TPHg		13000	20000	130	35550	0.50	- 550					
MWOO, Forestant MWOO, Fore		<u> </u>	<u> </u>	-		0300	1100	1900	2100	4000		2300
WWOO, Ethylbenzene		 	 	 	 							410
MWOQ, Kylene 9.9 0.9 5.2 31 4.2 4.0 5.5 10		ļ		 	 							270
MWOQ, Kylene		 	 		 							100
MV004 MY8E		 		-								1500
Marcon		<u> </u>			 	29	3.3			' '-		
MW05, Benzene			ļ. —		 	4550	000	700			-0.0	790
MWOS, Toluene		ļ						1			-	82
MW05, Ethylbenzene 3.9 1.3 4.8 55												66
MWOS, Kylene S.3 S.2 S.8 Sheen She		ļ	Ļ							<u> </u>		59
MWOS, MTBE Sheen		_										160
MW06, Product Sheen Sheen Sheen Sheen Sheen MW06, TPHg 12000 68000 48000 23000 57000 29000 36000						5,3	2.2	3.0				100
MW06, PPHg					<u> </u>					ahaan		
MWV06, Prigram MWV06, Prigram MWV06, Prigram MWV06, Foluene MWV06, Toluene MWV06, Ethylbenzene MWV06, Ethylbenzene MWV06, Ethylbenzene MWV06, MTBE MWV06, MTBE MWV07, Product MWV07, Product MWV07, Product MWV07, Product MWV07, Prigram MWV07, Toluene MWV07, Prigram MWV07, Toluene MWV07, Prigram MWV07, Prigr		ļ									20000	36000
MWV06, Self-belief Self-be												660
MWV06, Fthylbenzene 200 27 62 110 160 24 150				ļ								
MWV06, Xylene		<u> </u>	<u> </u>		<u> </u>							
MW07, Aylene Sheen Sheen					ļ							
MW07, Product Sheen Shee						610	180	370	310	460		7700
MW07, TPHg 3300 1500 1900 140						_					70.5	
MW07, Benzene 8.9 1.5 2.1 13 13 MW07, Toluene 12 0.9 2.6 9 9 9 9 9 9 9 9 9								1000				1400
MW07, Toluene 12 0.9 2.6 9 9 9 9 9 9 9 9 9												
MW07, Ethylbenzene 17 3 5.1 7 7 7 7 7 7 7 7 7				ļ								98
MW07, Xylene												75
MWV7, MTBE		ļ	1			17						200
MW08, Product sheen sheen sheen sheen MW08, TPHg 94000 23000 58000 46000 27000 24000 2800 MW08, Benzene 310 19 250 210 88 86 600 MW08, Toluene 250 12 170 150 43 55 160 MW08, Ethylbenzene 180 8.8 140 160 44 50 210 MW08, Yelene 480 47 330 360 80 100 470 MW08, Willene 480 47 330 360 80 100 470 MW10, TPHg 26000 3000 1000 <td></td> <td></td> <td>1</td> <td>ļ</td> <td></td> <td>45</td> <td>4.1</td> <td>6,9</td> <td> </td> <td></td> <td></td> <td>200</td>			1	ļ		45	4.1	6,9				200
MW08, TPHg 94000 23000 58000 46000 27000 24000 2800 MW08, Benzene 310 19 250 210 88 86 600 MW08, Toluene 250 12 170 150 43 55 160 MW08, Ethylbenzene 180 8.8 140 160 44 50 210 MW08, Aylene 480 47 330 360 80 100 470 MW08, TPHg 26000 3000 100 470		ļ		<u> </u>			ļ , — —	ļ				
MW08, Benzene 310		<u> </u>	ļ	ļ <u>.</u>					10000	07000	0.4000	20000
MW08, Serizene Ser	MW08, TPHg		<u> </u>		<u> </u>							
MV08, Tollere 180 8.8 140 160 44 50 210 18	MW08, Benzene											
MW08, Xylene		L										
MW008, Aylene MW008, MTBE	MW08, Ethylbenzene		L									
MW10, TPHg MW10, Benzene MW10, Toluene MW10, Toluene MW10, Toluene MW10, Toluene MW10, Sthylbenzene MW10, Sthylbenzene MW10, Tylene MW10, Tylene MW10, TPHg MW10, TPHg MW11, TPHg MW11, TPHg MW11, TPHg MW11, Tellene MW11, Toluene MW11, Toluene MW11, Toluene MW11, Toluene MW11, Tylene	MW08, Xylene					480	47	330	360	80	1 6	4700
MW10, Benzene 98 8.1 21 530 MW10, Toluene 37 2.2 9.3 7 MW10, Ethylbenzene 63 1.5 3.3 110 MW10, Xylene 99 5.1 33 78 MW10, MTBE 99 5.1 33 78 MW11, TPHg 2300 650 <50	MW08, MTBE											40000
MW10, Toluene 37 2.2 9.3 7 MW10, Toluene 63 1.5 3.3 110 MW10, Xylene 99 5.1 33 78 MW10, MTBE 99 5.1 33 78 MW11, TPHg 2300 650 <50	MW10, TPHg											10000
MW10, Ethylbenzene 63 1.5 3.3 110 MW10, Xylene 99 5.1 33 78 MW10, MTBE 0.5 0.5 MW11, TPHg 2300 650 <50	MW10, Benzene											5300
MW10, Xylene	MW10, Toluene											76
MW10, MTBE <0.5	MW10, Ethylbenzene											1100
MW11, TPHg 2300 650 <50	MW10, Xylene		I						99	5,1		780
MW11, Benzene 7 1.8 <0.5	MW10, MTBE	1			1							
MW11, Benzene 7 1.8 <0.5	MW11, TPHg								2300			710
MW11, Toluene 7.2 0.5 <0.5	MW11, Benzene		1					T	7	1.8		66
MW11, Ethylbenzene 12 0.8 <0.5		+	 	1	1		1	T	7.2	0.5	<0.5	97
MW11, Xylene 31 0.42 <0.5 19	MW11, Toluene	1	B.									
	MW11, Toluene MW11, Ethylbenzene			1								59
									12		<0.5	59 190

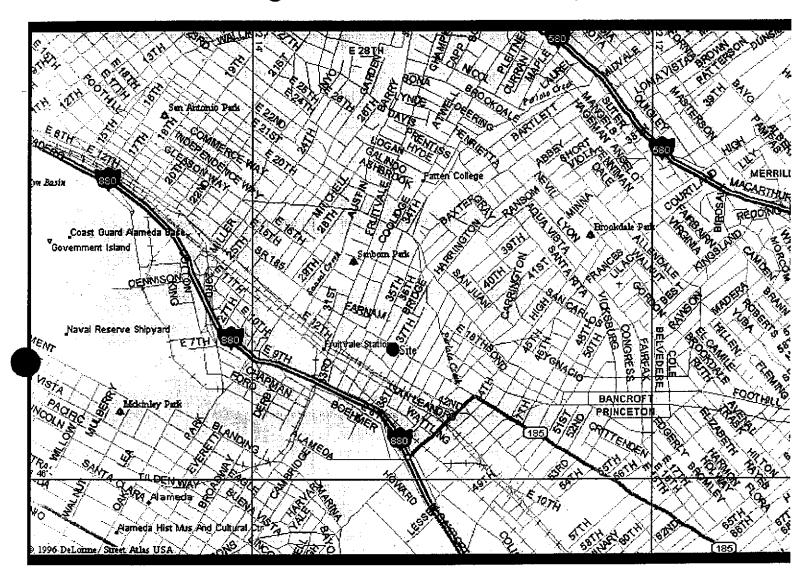
Range Hydrocarbons in Groundwater	i	
DATE	3/4/98	6/30/98
MW1 Product	sheen	sheen
MW01, TPHg		******
MW01, Benzene		
MW01, Toluene		
MW01, Ethylbenzene		
MW01, Xylene		
MW02, TPHg	51000	25000
MW02, Benzene	4200	2600
MW02, Toluene	6000	2000 1300
MW02, Ethylbenzene	1600 8800	4300
MW02, Xylene MW02, MTBE	3000	4300
MW03		
MW03, TPHg	150000	33000
MW03, Benzene	7100	2000
MW03, Toluene	9500	1900
MW03, Ethylbenzene	2700	900
MW03, Xylene	12000	4600
MW03, MTBE		
MW04, TPHg	2000	1700
MW04, Benzene	600	780
MW04, Toluene	950	160
MW04, Ethylbenzene	100	54
MW04, Xylene	500	200
MW04, MTBE	400	400
MW05, TPHg MW05, Benzene	3	
MW05, Toluene	<0.5	<u></u> <5
MW05, Ethylbenzene	14	15
MW05, Xylene	5	<10
MW05, MTBE		
MW06, Product		
MW06, TPHg	65000	28000
MW06, Benzene	6100	3100
MW06, Toluene	11000	4300
MW06, Ethylbenzene	1800	1300
MW06, Xylene MW06, MTBE	9900	4900
MW07, Product		
M\A/07 TPHa	800	620
MW07, TPHg MW07, Benzene	25	4
MW07, Toluene	47	<u><5</u>
MW07, Ethylbenzene	22	9
MW07, Xylene	76	<10
MW7, MTBE		
MW08, Product		
MW08, TPHg	70000	54000
MW08, Benzene	8400	4600
MW08, Toluene	3500	2800
MW08, Ethylbenzene	3700	3500
MW08, Xylene MW08, MTBE	11000	7300
MW10, TPHg	9000	8900
MW10, Benzene	2600	3700
MW10, Toluene	1200	60
MW10, Ethylbenzene	1300	980
MW10, Xylene	3400	420
MW10, MTBE	j	
MW11, TPHg	1800	1100
MW11, Benzene	160	45
MW11, Toluene	31	24
SESSION CONTRACTOR	120	71
MVV11, Ethylbenzene MVV11, Xylene	250	100

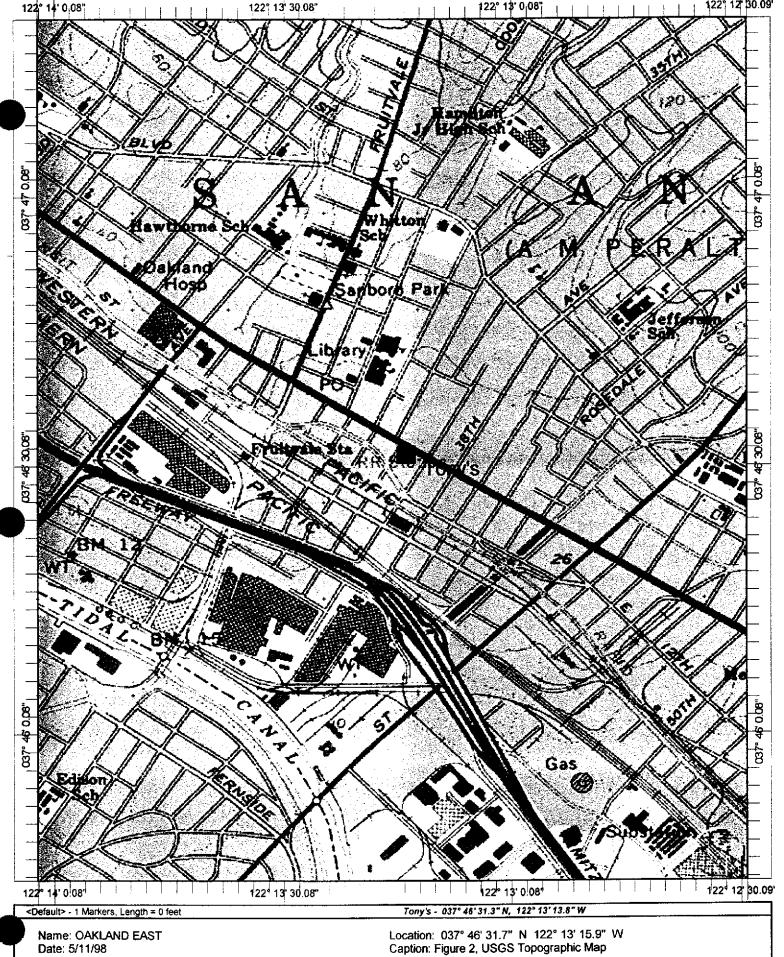
9/29/98

Table 3. Bioremediation Sampling, Results December 30, 1997 Sampling

Table 3. D	sioremediatio	n Samping,	Results Dec	ember 30, i	397 Sampin	iy
			Dissolved	Nitrate as	Ferrous	
WELL	Date	TPHg	Oxygen	Nitrogen	iron	Sulfate
UNITS		mg/l	mg/l	mg/l	mg/l	mg/l
MW01	12/30/97	27	0.5	<0.1	3.04	<1
MW01	6/30/98	FLOATING	PRODUCT	NOT SAMPI	_ED	
MW02	12/30/97	35	<0.1	<0.1	3.35	<1
MW02	6/30/98	25	3.2	<0.1	0.50	14
MW03	12/30/97	FLOATING	PRODUCT	NOT SAMPI	.ED	
MW03	6/30/68	33	2	0.1	0.37	77
MW04	12/30/97	2.3	<0.1	4.5	0.39	42
MW04	6/30/98	1.7	1.3	0.9	0.93	7
MW05	12/30/97	0.79	<0.1	0.3	0.94	18
MW05	6/30/98	0.4	0.6	1.6	0.50	6
MW06	12/30/97	36	<0.1	<0.1	0.30	5
MW06	6/30/98	28	2.5	0.7	0.40	4
MW07	12/30/97	1.4	1.2	0.2	0.23	32
MW07	6/30/98	0.62	1	0.5	0.78	4
MW08	12/30/97	28	2.5	0.1	3.35	<1
80WM	6/30/98	54	1.3	<0.1	2.82	3
MW10	12/30/97	10	<0.1	0.3	2.21	<1
MW10	6/30/98	8.9	0.9	<0.1	0.38	<1
MW11	12/30/97	0.71	<0.1	3.5	0.32	35
MW11	6/30/98	1.1	2.2	1.2	0.15	6

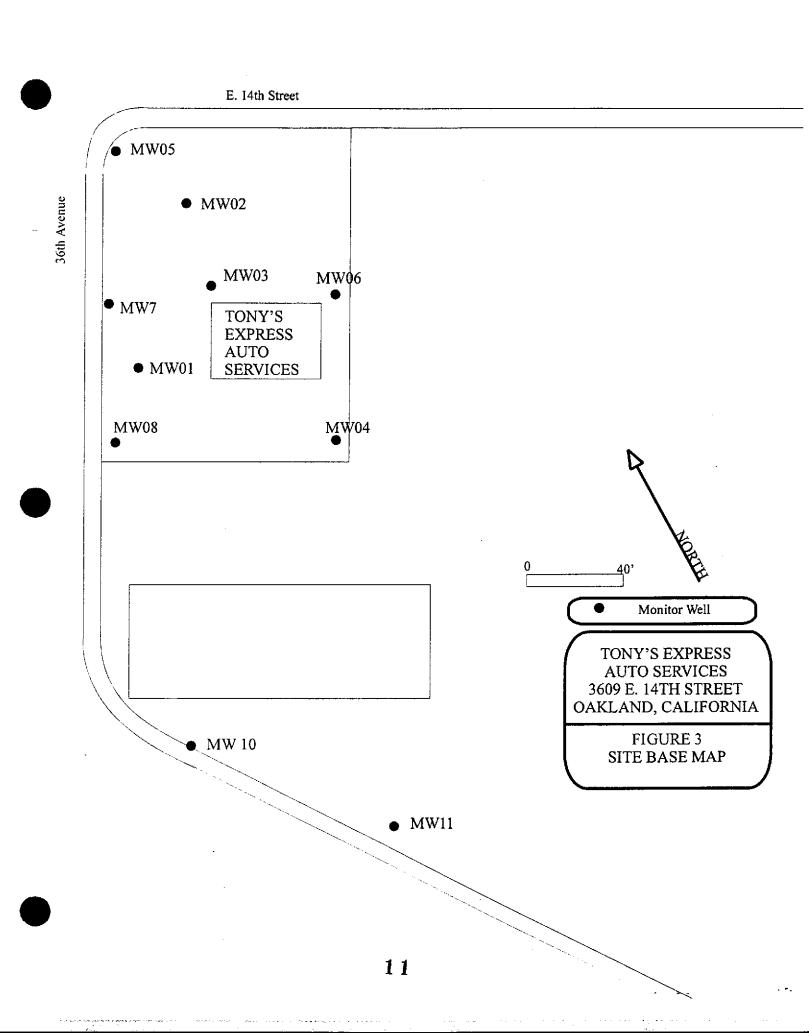
Figure 1, Location Map



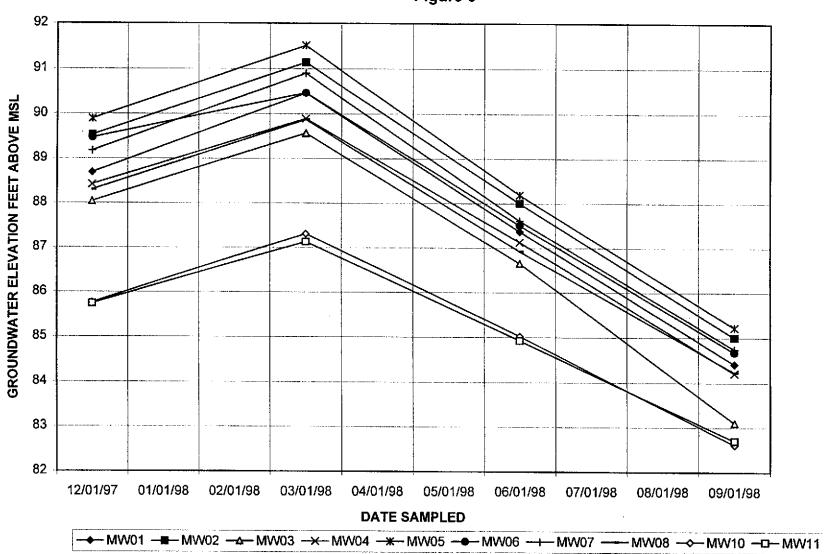


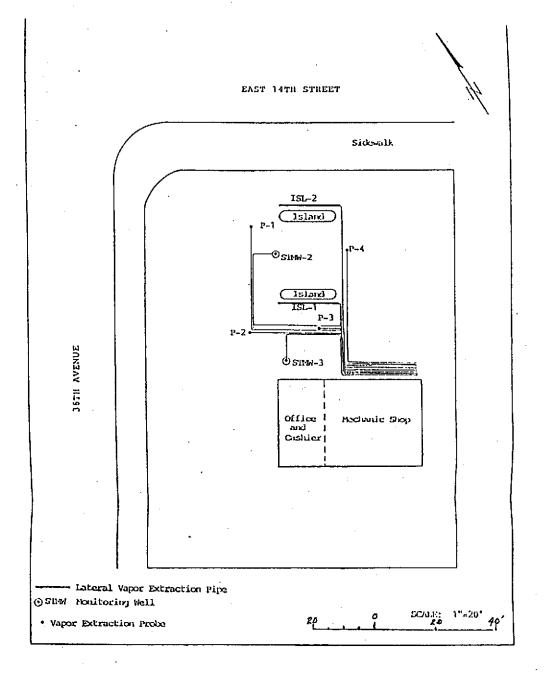
Scale: 1 inch equals 1000 feet

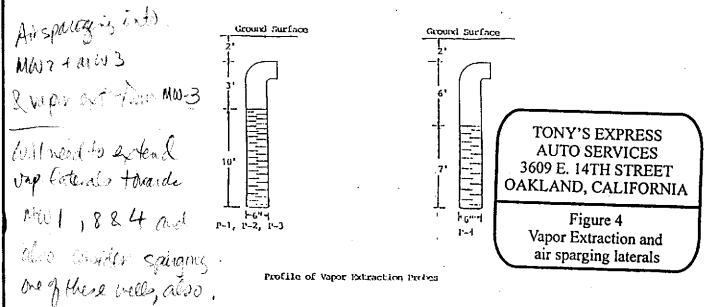
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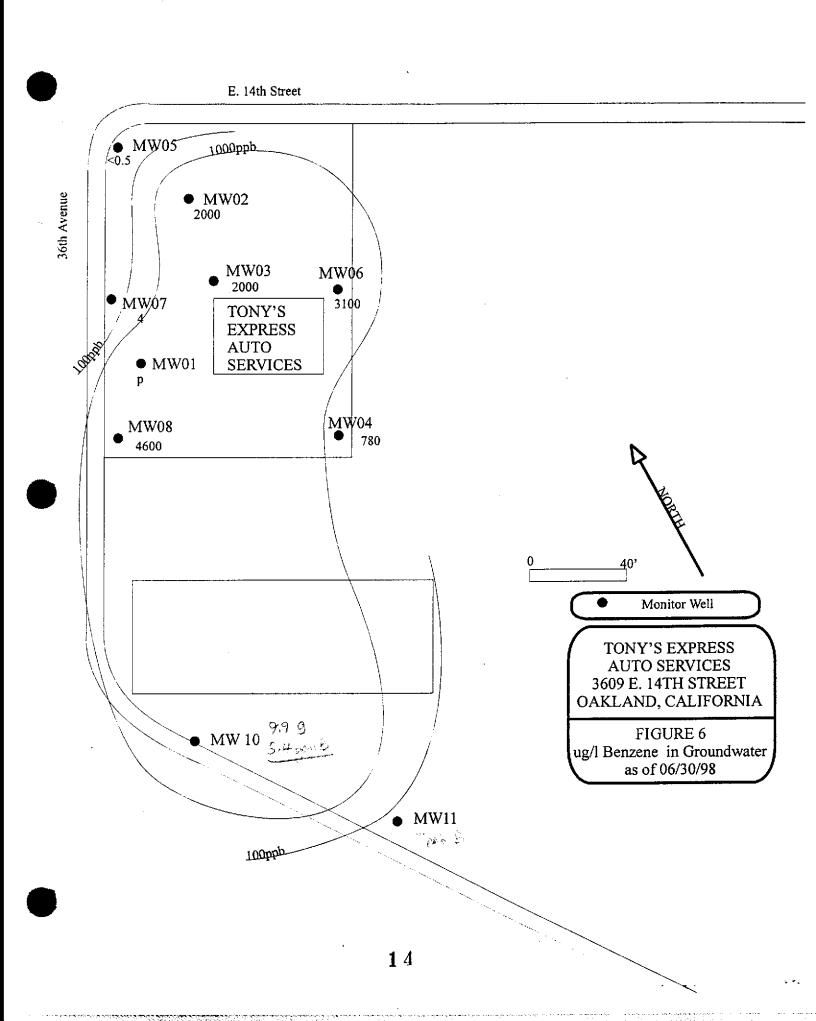


GROUNDWATER ELEVATION Figure 5



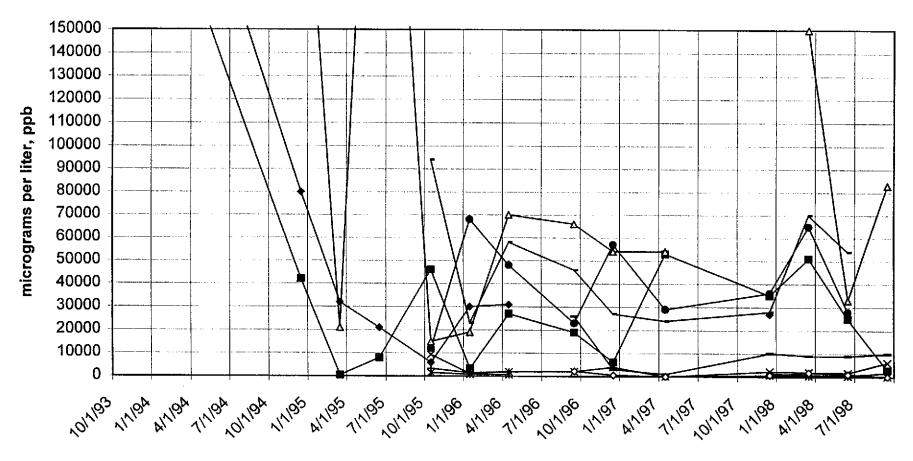






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Tony's Express Auto Services, Micrograms per liter TPHg Figure 8



Date Sampled

APPENDIX A

METHODS AND PROCEDURES QA/QC

APPENDIX A: METHODS AND PROCEDURES QA/QC

This Appendix documents the specific methods, procedures, and materials used to collect and analyze groundwater samples.

GAUGING AND MEASURING MONITOR WELLS

Prior to sampling a well, WEGE personnel obtain three measurements:

- 1. the depth to groundwater (DTW);
- 2. the product thickness using a battery powered depth to water-product interface probe and/or by using a specially designed bailer;
- 3. the total depth of casing, to calculate the total water volume in the well.

The DTW-product interface probe is lowered into the well casing until the instrument signals when the top of free phase floating product (if present) and/or the top of water is reached. The distance from the top of free phase floating product and/or water to the top of casing is read from the tape that is attached to the probe. The probe is then lowered to the bottom of the well and the tape is read again. The tape is calibrated in 0.01-foot intervals for accuracy to 0.01 foot. The measured distance is subtracted from the established elevation at the top of casing to determine the elevation of groundwater with respect to mean sea level and the difference between the top of groundwater and the base of the well is noted to establish water volume in the well. The probe and tape is washed with TSP (Tri Sodium Phosphate) and rinsed in distilled water before each measurement. WEGE has designed and built bailers that will collect a sample of the contents of a well to show the exact thickness of any floating product.

Some of the abbreviations used in water sampling and or measuring or monitoring are: BGS, Below Ground Surface; DTW, Depth to Water (from surface reference i.e. usually TOC); TOC, Top of Casing; MSL, Mean Sea Level; AMSL and BMSL, Above and Below MSL; BS, Below Surface; TOW, Top of Water; TSP, Tri Sodium Phosphate.

PURGING STANDING WATER FROM MONITOR WELLS

If no product is present, WEGE personnel purge the well by removing groundwater until the water quality parameters (temperature, pH, and conductivity) stabilize, or until the well is emptied of water. Periodic measurements of groundwater temperature, pH, and conductivity are taken with a Hydac Monitor or other meter and recorded along with the volume of groundwater removed from the well. Purging is done by one or more methods singularly or in combination. Bailers, pneumatic or electric sample pumps, or vacuum pump tanks or trucks may be used. The usual amount of water removed is three borehole volumes, unless otherwise stated.

$BV = (7.48/4) \times (CD2+P (BD2-CD) 2) \times (WD-GW)$

BV borehole volume (gallons)
CD casing diameter (feet)
GW depth to groundwater (feet)

BD borehole diameter (feet)
WD well depth (feet)
P porosity of the gravel pack, 25%

Table of Common Boring and Casing Diameters

Boring diameter inches	Casing diameter inches	Volume gallons/ foot	3 VolumesX (WD-GW) gallons /foot
4	1	0.042	0.126
6	1	0.082	0.246
6	2	0.173	0.519
8	2	0.277	0.831
8	4	0.671	2.013
10	2	0.572	1.716
10	4	0.844	2.532

EXAMPLE: An 8 inch boring with 2 inch casing requires removal of 0.831 gallons of water per foot of water column.

The water collected during purging is either safely stored on- site in 55 gallon DOT 17H drums for later disposition, transported to an approved on-site/off-site treatment facility or to a sewer discharge system.

COLLECTION OF WATER SAMPLE FOR ANALYSIS

The groundwater in the well is allowed to recover to at least 80% of its volume prior to purging, if practical, before the groundwater sample is collected.

Percent Recovery = (1 - <u>Residual drawdown</u>) x 100. Maximum drawdown

A fresh bailer is used to collect enough water for the requirements of the laboratory for the analyses needed or required. The water samples are decanted from the bailer into the appropriate number and size containers. These containers are furnished pre-cleaned to exact EPA protocols, with and without preservatives added, by the analytical laboratory or a chemical supply company. The bottles are filled, with no headspace, and then capped with plastic caps with teflon liners.

The vials or bottles containing the groundwater samples are labeled with site name, station, date, time, sampler, and analyses to be performed, and documented on a chain of custody form. They are placed in ziplock bags and stored in a chest cooled to 4 °C with

ice. The preserved samples are COC (chain of custody) delivered to the chosen laboratory.

ANALYTICAL RESULTS

TPH is the abbreviations used for Total Petroleum Hydrocarbons used by the laboratories for water and soil analyses. The letter following TPH indicates a particular distinction or grouping for the results. The letters "g", "d", "k", or "o" indicate gasoline, diesel, kerosene, or oil, respectively, i.e. TPH-d for diesel ranges TPH.

BTEX or MTBE are acronyms or abbreviations used for Benzene, Toluene, Ethylbenzene and all of the Xylenes (BTEX) and Methyl tertiary-Butyl Ether (MTBE), respectively. MBTEX is the designation for the combination of the above five compounds.

Laboratory lower detection limits unless otherwise noted, due to matrix interference or elevated concentrations of target compounds, are as follows:

TPHg	50 ug/L	MTBE	0.5 ug/L
Benzene	0.5 ug/L	Toluene	0.5 ug/L
Ethyl Benzen	e 0.5 ug/L	Total Xylenes	s 1.0 ug/L

The less than symbol, <, used with a "parts per value" indicates the lower detection limit for a given analytical result and the level, if present, of that particular analyte is below or less than that lower detection limit.

Other abbreviations commonly used are ppm, ppb, mg/Kg, ug/Kg, ml/l and ul/l are parts per million, parts per billion, milligrams per kilogram, micrograms per kilogram, milliliters per liter, microliters per liter, respectively.

CHAIN OF CUSTODY DOCUMENTATION

All water samples that are collected by WEGE and transported to a certified analytical laboratory are accompanied by chain-of- custody (COC) documentation. This documentation is used to record the movement and custody of a sample from collection in the field to final analysis and storage. Samples to be analyzed at the certified laboratory were logged on the COC sheet provided by the laboratory. The same information provided on the sample labels (site name, sample location, date, time, and analysis to be performed) is also noted on the COC form. Each person relinquishing custody of the sample set signs the COC form indicating the date and time of the transfer to the recipient. A copy of the COC follows the samples or their extracts throughout the laboratory to aid the analyst in identifying the samples and to assure analysis within holding times. Copies of the COC documentation are included with the laboratory results in Appendix B of the sampling report.

APPENDIX B

CERTIFIED ANALYTICAL LABORATORY REPORT

COC DOCUMENTATION



Lab Number:

98-1254

Client:

Western Geo-Engineers

- Project:

Tony's, 3609 E. 14th St.

Date Reported: 10/13/98

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-12	54-01	Client ID: MW2		09/29/98	WATER
soline	8015M	2900	ug/L		10/07/98
Benzene	8020	290	ug/L		
Ethylbenzene	8020	160	ug/L		
MTBE	8020	*ND			
Toluene	8020	180	ug/L		
Xylenes	8020	360	ug/L		
Sample: 98-12	54-02 C	lient ID: MW3		09/29/98	WATER
Gasoline	8015M	83000	ug/L		10/07/98
Benzene	8020	35000	ug/L		
Ethylbenzene	8020	2600	ug/L		
MTBE	8020	*450	ug/L		
Toluene	8020	8800	ug/L		
Xylenes	8020	1400	ug/L		
Sample: 98-12	54-03 C	lient ID: MW4		09/29/98	WATER
Gasoline	8015M	6200	ug/L		10/07/98
Benzene	8020	910	ug/L		
Ethylbenzene	8020	68	ug/L		
MTBE	8020	*18	ug/L		
Toluene	8020	77	ug/L		
lenes	8020	200	ug/L		



Lab Number:

98-1254

Client:

Western Geo-Engineers

Project:

Tony's, 3609 E. 14th St.

Date Reported: 10/13/98

Gasoline, BTEX and MTBE by Methods 8015M and 8020

<u>Analyte</u>	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-12	54-04 Cli	ient ID: MW5		09/29/98	WATER
soline	8015M	270	ug/L		10/07/98
Benzene	8020	2	ug/L		
Ethylbenzene	8020	3	ug/L		
MTBE	8020	*ND			
Toluene	8020	1	ug/L		
Xylenes	8020	3	ug/L		
Sample: 98-12	54-05 Cli	lent ID: MW7		09/29/98	WATER
Gasoline	8015M	1800	ug/L		10/07/98
Benzene	8020	1	${\tt ug/L}$		
Ethylbenzene	8020	1	ug/L		
MTBE	8020	*68	\mathtt{ug}/\mathtt{L}		
Toluene	8020	0.6	\mathtt{ug}/\mathtt{L}		
Xylenes	8020	2	ug/L		
Sample: 98-12	54-06 Cli	ent ID: MW1	0	09/29/98	WATER
Gasoline	8015M	9900	ug/L		10/07/98
Benzene	8020	5400	ug/L		
Ethylbenzene	8020	970	ug/L		
MTBE	8020	*2600	ug/L		
Toluene	8020	66	ug/L		
lenes	8020	620	ug/L		

Page



Lab Number:

98-1254

Client:

Western Geo-Engineers

~ Project:

Tony's, 3609 E. 14th St.

Date Reported: 10/13/98

Gasoline, BTEX and MTBE by Methods 8015M and 8020

	Analyte Sample: 98-12	Method 254-07 Cli	Result ent ID: MW	Unit 11	Date Sampled 09/29/98	Date Analyzed WATER
1	soline	8015M	170	ug/L		10/07/98
•	Benzene	8020	7	ug/L		
	Ethylbenzene	8020	4	ug/L		
	MTBE	8020	*22	ug/L		
	Toluene	8020	0.6	ug/L		
	Xylenes	8020	9	ug/L		



Quality Control/Quality Assurance

Lab Number:

98-1254

Client:

Western Geo-Engineers

-Project:

Tony's, 3609 E. 14th St.

Date Reported: 10/13/98

Gasoline, BTEX and MTBE by Methods 8015M and 8020

		Reporting			MS/MSD	
Analyte	Method	Limit	Unit	Blank	Recovery	RPD
soline	8015M	50	ug/L	ND	112	6
Benzene	8020	0.5	ug/L	ND	106	9
Ethylbenzene	8020	0.5	ug/L	ND	91	9
Toluene	8020	0.5	ug/L	ND	92	11
Xylenes	8020	1.0	ug/L	ND	99	12
MTBE	8020	0.5	ug/L	ND	120	9

ELAP Certificate NO:1753

Reviewed and Approved

John A.Murphy, Laboratory Director

Page 4 of 4

P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950



North State Environmental Analytical Laboratory Phone: (415) 588-9652 Fax: (415) 588-1950

	98-1254	
Chain of Custody /	Request for	Analysis
ab Joh No	Page	of

Client: Deseat 1	etroleun	ı	Repor	t to: Roy Butle,	K.		Phone	530	68 5	300		Turnaround Time
Mailing Address: Western 1386 E.B.	Geo Eng.	weers	Billing	Billing to:			Fax:					
Wood land	CA 95	776-6003				PO# / Billing Reference:			e:	Date:		
Project / Site Address: Tonys 360' Sample ID			Pres.	Analys Requested Sampling	rph of	I REE					Jampi	Comments/Hazards
Mula	Type	No. / Type		Date / Time		,		/				(
MW2 MW3	HaO	2/VOAs	HCL	9-29-98/1148	V	· ·						
MWY				11:08		 		<u> </u>				
MW5				9:23							<u></u>	
MW7				10:06		<u> </u>					-	
MWIO				8:54							 -	
MWI			•	1 8:31	1	1						
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Relinquished by:		· · · · · · · · · · · · · · · · · · ·		ate: Time:		Receiv	ed by:		· • · · · · · · · · · · · · · · · · · ·			

APPENDIX C

MONITOR WELL SAMPLING DATA SHEETS



SITE TONAS	DATE 9-24	7-98	TIME	
WELL May	SAMPLED	BY.	BROAD	WAVI.
11 11111 19601		~~		
WELL ELEVAT	ION		· · · · · · · · · · · · · · · · · · ·	
PRODUCT THIC	CKNESS			
DEPTH TO WAT	TER DIW:	13.58	DIB: 2	9.89
FLUID ELEVAT				
BAILER TYPE	Disposable	Bailer		
	avid LTT			
		,		

* WELL PURGING RECORD						
TIME	VOLUME REMOVED	TEMP.	pН	COND.		
1247	Ist bailer	70.1	6.61	3.66	<u>x 1</u> 000	
7,7,7	. 8 gol					
				<u> </u>		

FINAL VOLUME PURGED 8 991
FINAL VULUNILI ORGED
TIME SAMPLED No Sample
SAMPLE ID. MWI
CAMPIE CONTAINERS 2/40 VO95
ANALYSIS TO BE RUN TPHS /BTEX / MTBE
TABORATORY NSE
NOTES: 1st bailer Cloudy Stong Oder Floating
Product
1/4 = 3
VAS = 7883 =



SITE TONYS	DATE 9-2	9-98	TIME 1/23	
WELL MW2	SAMPLED	BY.	BROADWAY.	
WELL ELEVAT	ION			
PRODUCT THIC	KNESS			
DEPTH TO WAT	TER DIW:	13.58	DTB: 30.00	
FLUID ELEVAT	ION			
BAILER TYPE	Disposable	Bailer		
	wid LTT			

• *	WELL PU	RGING R	ECORD	
TIME	VOLUME REMOVED	ТЕМР.	pН	COND.
1127	Ist beiler	70.1	6.61	3.66 × 10
1140	. 32 gol	18. 9	7.12	4.04
1143	.5	69.0	7.00	3.95
1145	.5	70.3	6.93	3.94
11:47	,5	70.4	6.92	3,93

FINAL VOLUME PURGED 33. < 99
TIME SAMPLED 1148
SAMPLE ID. MW2
SAMPLE CONTAINERS 2/40 VOGS
ANALYSIS TO BE RUN THY BIEX MIBE
LABORATORY NSE
NOTES: 1st bailer Clear No Odor
·
VAS = PRES =



SITE TONGS	DATE 9	. 29-98	TIME 1200	
WELL MW3	SAMPLE	DBY.	BROADWAY.	
WELL ELEVAT	ION			
PRODUCT THIC	CKNESS			·
DEPTH TO WAT	TER DIW	: 14.68	DTB: 29.96	
FLUID ELEVAT	NOI	<u> </u>		
BAILER TYPE	Disposable	Bailer		
	avid LTT			

π,	WELL PU	RGING R	ECORD		_
TIME	VOLUME REMOVED	TEMP.	pН	COND.	
1209	Ist bailer	67.9	7.71	3.27 x	<u>.1</u> d
12.22 .	25 gol	67.8	7,42	3.48	4
1224	.5	70.0	7.27	3.43	Ц
12:25	5.	71.1	7.22	3.37	Ц
1227	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	71.1	7.18	3.47	Ц
1228	-5	71.5	7.17	3,48	+
	-		<u>, , , , , , , , , , , , , , , , , , , </u>		H
					П
					T

FINAL VOLUME PURGED 27 gal
TIME SAMPLED 1229
SAMPLE ID. MUS
SAMPLE CONTAINERS 3/40 VO95
ANALYSIS TO BE RUN TPHS /BTEX / MTBE
LABORATORY NSE
NOTES: 1st bailer Texbid Slight oder
VAC = fres =



SITE Tonys	DATE	9-29-98	TIME 1030	
WELL MW4	SAMPL	ED BY.	BROADWAY.	
		-		
WELL ELEVAT	'ION			
PRODUCT THI	CKNESS			
DEPTH TO WA	TER DT	W: 13.69	DTB: 25.12	
FLUID ELEVA	TION			
BAILER TYPE	Disposa	hle Bailer		
	guid LT	7		

d.	WELL PU	RGING R	ECORD		
TIME	VOLUME REMOVED	TEMP.	pН	COND.	
1054	Ist bailer	66.3	6.77	5.09	<u> </u>
1101	. 6 gal	66.3	6.77	4.17	
1/03	.5	67.9	6,70	4.15	
11:05	.5.1	68.8	6.71	4.19	
1107	.5	689	6.70	4.30	
					-11

FINAL VOLUME PURGED 7.5 gal
TIME SAMPLED 1108
SAMPLE ID. MW4
SAMPLE CONTAINERS 2/40 VOGS
ANIAI VOIC TO BERIN 1916/BIEX / MIBE
LABORATORY NSE NOTES: Ist bailer Turbid No Odap (Disturbed) Tubering Stuck is well had to get it out with pump
NOTES: (st bailer Turbid No Odas (Disturbed)
Tubering Stock is well had to get it out with
DIMP V
VAS = PRES =



SITE TOUSA	DATE 9-2	29-98	TIME 0908	
WELL MWS	SAMPLED	BY.	BROADWAY.	
		-	0	
WELL ELEVA	ΓΙΟΝ			
PRODUCT TH	CKNESS			•
DEPTH TO WA	TER DIW:	13.82	DIB: 27.60	
FLUID ELEVA	TION			
BAILER TYPE	Disposable	Bailer		
	David LTT			· · · · ·

я,	WELL PU	RGING R	ECORD		
TIME	VOLUME REMOVED	TEMP.		COND.	
744	1st bailer	68.9	5.91	15.40	x Id
916	· 7 gol	70.3	6.12	5.27	
1918	.5	71.3	6.13	3.62	
920	, 5,	71.2	6.35	3.31	
921	5	71.6	6.91	3.18	
922	3	71.7	6.42	3./5	\dashv
		·			-H

FINAL VOLUME PURGED 9 991
TIME SAMPLED 923
SAMPLE ID. MWS
SAMPLE CONTAINERS 2/40 VO95
ANALYSIS TO BE RUN TPHS /BTEX / MTBE
LABORATORY NSE
NOTES: 1st bailer Cloudy No Odok
VAC = FRES =



SITE TONYS	DATE 9-	29-98	TIME 0433	
WELL MW6	SAMPLED	BY.	BROADWAY.	
WELL ELEVAT	ION			
PRODUCT THIC	CKNESS			•
DEPTH TO WA	TER DIW:	14,10	DIB: 2633	
FLUID ELEVAT				
BAILER TYPE	Disposable	Bailer		
	quid LTT			
		•		

-					
π,	WELL PU	RGING R	ECORD		
TIME	VOLUME REMOVED	TEMP.	pН	COND.	
0944	Ist bailer	67.5	6 38	12.73	_x1000
938	· 6 gal				
					+H
		<u> </u>			\dashv
					$\dashv \uparrow$
					

ETNAI V	OLUME PURGED 6 gal
TIME SA	MPLED No Sample
	ID. Mill
SAMPLE	CONTAINERS 2/40 VOGS
ANALYS	SIS TO BE RUN 1919/BIEX /MIBE
I ARORA	TORY NSE
NOTES:	1st bailer Clear STRONG Odor FLORTING produc
	0
VAC =	res =



SITE TONES		9.29-98	TIME	950
WELL MW7	SAMPL	ED BY.	BROADU	IN.
				0
WELL ELEVAT	'ION			
PRODUCT THE	CKNESS		<u> </u>	
DEPTH TO WA	TER DI	W: 13.09	DIB: 26	5.12
FLUID ELEVA	rion			
BAILER TYPE	Disposal	Kle Bailer		
	guid LT			

*			
WELL PU	RGING R	ECORD	
VOLUME			COND.
	67.4	6.16	12.78 × 10
	i	6.25	4.97
(5)	76.7	6.27	3,60
15	71.8	6.43	3.27
.5	71.9	6.52	3.27
1,3	71.6 .	6.54	3.27
			1
		•	
	VOLUME REMOVED Ist beiled gal ,5 ,5 ,5	VOLUME REMOVED	REMOVED

FINAL VOLUME PURGED 8 991
TIME SAMPLED 1006
SAMPLE ID. MW7
CAMPIE CONTAINERS 2/40 VOGS
ANALYSIS TO BE RUN TPHy /BTEX /MTBE
LABORATORY NSE
NOTES: 1st bailer Clear No Oder
1,0120,11
VAS = PRES =



SITE TONGS	DATE 9-2	9-98	TIME	
WELL NW 8	SAMPLED	BY.	BROADL	UN.
		•		0
WELL ELEVA'I	YON			
PRODUCT THE				•
DEPTH TO WA	TER DIW:	13.62	DIB: 2	6.08
FLUID ELEVA	LION			
BAILER TYPE	Disposable	Bailer		
PUMP D	avid LTT			

4%	WELL PUI	RGING R	<u>ECORD</u>		
TIME	VOLUME REMOVED	TEMP.	pН	COND.	
1020	Isr bailer	679	6.57	12.71	x lo
1023	. 6 gal	67.6	6.43	5,32	
1025	.5	18.9	6.23	4.04	
1023 1025 1025		69.5	6,51	4.79	
		1			\dashv

FINAL VOLUN	ME PURGED 79al
TIME SAMPLE	ED No Sample
SAMPLE ID.	nw8
SAMPLE CON	TAINERS 3/40 VO95
ANALYSIS TO	BERUN THY BIEX MIBE
T ARABATAR'	Y NSE .
NOTES: (st	bailer Floating Particulate STREAM OND Seeing Floating product
4th Beiler	seeing Floating product
	0 0,
•	
VAS =	fres =



SITE TONGS		9-29-98	TIME 0840	
WELL maio	SAMPL	ED BY.	BROADWAY.	
		•	0	
WELL ELEVAT				
PRODUCT THI	CKNESS			
DEPTH TO WA	TER DI	W: 11.93	DTB: 24.33	
FLUID ELEVA	rion_			
BAILER TYPE	Disposa	hle Bailer		
PUMP D	lavid LT	Τ	· · · · · · · · · · · · · · · · · · ·	<u></u>

7,	TTTT T DIE	DCDIC D	ECOPD		
TIME	WELL PU VOLUME REMOVED	TEMP.		COND.	
0845	Ist bailer	62.7	6.17	16.62	x Iq
847	6 gol	70.2	6.10	5.20	
849	.5	71.2	6.10	3.75	
850	,5,	72.0	6.32	3,51	$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$
851	.5	72.4	6.42	3,55	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$
853	.5	12.4	6.41	3.56	
0					
					$\perp \! \! \! \! \! \! \! \! \perp$
					_

FINAL VOLUME PURGED 94
TIME SAMPLED 854
SAMPLE ID. MW/O
SAMPLE CONTAINERS 2/40 VO95
ANALYSIS TO BERUN THIS BIEX MIBE
TABORATORY NSE
NOTES: 1st hailer GRAM TURBINITY No Odor
Tubing down in well
VAG = FRES =



SITE TONYS	DATE 9-29-98	TIME 8:78
WELL MWII	SAMPLED BY.	Beardway.
	-	0
WELL ELEVAT	ION	
PRODUCT THIC	CKNESS	
DEPTH TO WA'	TER DTW: 13.24	DTB: 26,50
FLUID ELEVAT		
BAILER TYPE	Disposable Bailer	
PUMP D	guid LTT	

π,	WELL PU	RGING R	ECORD		_
TIME	VOLUME REMOVED	TEMP.	pН	COND.	
8:20	Ist beiler	67.9	6.10		<u>10</u> 0
8:23	. 6 gal	69.2	6.37	4.83	
8:25	.5	69.3	6.45	2.94	┛
8:27	.5.	69.3	6.55	2.76	
8;29	13	69.5	6.60	2.71	_
4:3D	.5	69.5	6.59	2.69	4
					\dashv
					\

FINAL VOLUME PURGED & gal
TIME SAMPLED &3/
SAMPLE ID. MW 11
SAMPLE CONTAINERS 9/40 VO95
ANALYSIS TO BE RUN TPHS /BTEX / MTBE
LABORATORY NSE
NOTES: 1st bailer Clear No Odor
VAC = PRES =

13 16

(Me) sussessed to the state of	or's US EPA ID No.	2. Page 1	3. Document	Number	·····································
			NH-N		48
CALC	100087674	164 \$ 3000	EES 19		
4. Generator's Name and Mailing Address	E. 14# St		EE9 19		
7/09	E. 14# St				
-20 1/4 5200					
530-168-5300. OAKI	AND. CA.		· · · · · · · · · · · · · · · · · · ·	<u> </u>	seeggee
5. Transporter Company Name	6. US EPA ID Numb	er 7. Transp	orter Phone		
EVERGREEN ENVIRONMENTAL SERVICES	CAD98241326	19	800-972-5284		
8. Designated Facility Name and Site Address	9. US EPA ID Numb		y's Phone	·	1 1 1 7 1
5 (1997) 1997 - Marie M 1998 - Marie					
Evergreen Oil, Inc.			erika kiri. Ta		
6880 Smith Avenue	1 0100000074	10	510-795-4401	·.	
Newark, CA 94560 11. Waste Shipping Name and Description	CAD9808874		2. Containers	13. Total	14. Unit
TI, Yidaso Gripping Future and Constitution of the Constitution of			No. Type	Quantity	Wt/Vol
a. Non-Hazardous waste, liquid					
Water and oil			001 TT	100	G
	ng. Kangian ang bangsayan				
15. Special Handling Instructions and Additional Information	Andrew Commencer		Codes for Wastes I	isted Above 11b.	
	Der verter in det verter in der verter in der verter in det verter in d				
Profile #				-	
Do not ingest Wear protective clothing		Invoice:	713415		
In case of emergency call: CHEMTREC 800-424	-9300	Sales Or			
	·		•		
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DOT ERG 171					
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Ā	4. Generator's Name and Mailing Address					EES 19		
	4. Generator's Name and Mailing Address WESTERN GO ENGINEERS							
	1386 E. BERMAR ST WOODLAND CA 95776							
4	Generator's Phone (916) 661-2135			,	,			
7	5. Transporter Company Name	6.	US EPA ID Number	7. Tran	sporter	Phone		
	EVERGREEN ENVIRONMENTAL SERVICES			,				
37		_l	CAD982413262)-972-52	84	
	8. Designated Facility Name and Site Address	9.	US EPA ID Number	10. Fac	cility's P	none		_
	Evergreen Oil, Inc.							
	6880 Smith Avenue				p+ al 4	3 705 44	04	
GEZ	Newark, CA 94560		CAD980887418	<u> </u>		0-795-44 Intainers	13.	14
Z	11. Waste Shipping Name and Description				No.	Туре	Total Quantity	14, Unit Wt/Vol
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O	Water and oil				001	$ \frac{\Pi}{\Pi}$	70	6
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	15. Special Handling Instructions and Additional Information 51		CAtiON	1	ng Code	s for Waste	a Listed Above	
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	Wear protective clothing			Invoice	e:	اليل	- GC	
	In case of emergency call: CHEMTREC 800-424-930	00		Sales (Order:	962	061 89089	1
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	16. GENERATOR'S CERTIFICATION SECRETARY OF A SECRETARIAN							
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H	18. Discrepancy Indication Space		()					*
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	19. Facility Owner or Operator Certification (A)	Salah La			Samuel Control			
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WH	ITE - ORIGINAL (Return to Generator) YELLOW -TSDF	(Retain Co	PINK -TRANSPORT	ER COPY	•	OLDENA	OD -GENERATO	OR'S COPY



Certificate of Recycling

Dear Valued Customer:

Evergreen certifies that the used oil, used antifreeze, oily water, and used oil filters collected from your facility were fully recycled in accordance with all applicable state and federal regulations.

Evergreen Environmental Services also provides emergency spill response; vacuum cleaning of tanks, clarifiers, and sumps; transportation of hazardous waste, steam cleaning, management of oily solids, and treatment of non-hazardous wastewater.

For more information regarding the services Evergreen provides, please call:

1-800-972-5284

We appreciate your business!

This certificate also serves as notification, as required by Title 22, Section 66264.12, that Evergreen Oil, Inc. has the appropriate permits for, and will accept the wastes manifested to Evergreen facilities.

"dedicated to the protection of the environment"