ENVIRONMENTAL PROTECTION

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July 27, 1998

Messrs. Aaron and Stanley Wong 2200 E. 12th Street Oakland, CA 94606

Re: Second Quarter Report, 1998, Credit World Auto Sales, 2345 E. 14th Street, Oakland, CA 94601

Dear Messrs. Wong:

Tank Protect Engineering of Northern California, Inc. (TPE) is pleased to submit this quarterly letter report of environmental services conducted at the subject site. Previous work conducted prior to January 1, 1998 is summarized in TPE's January 14, 1998 Fourth Quarter Report, 1997, Credit World Auto Sales, 2345 E. 14th Street, Oakland, CA 94601. Work conducted after January 1, 1998 is summarized and work conducted during the subject quarter is presented in detail, below.

Work Conducted By TPE During First Quarter, 1998:

- January 14, 1998 Submitted a <u>Fourth Quarter Report</u>, 1997, <u>Credit World Auto Sales</u>, 2345 E. 14th Street, <u>Oakland</u>, <u>CA 94601</u> to Messrs. Wong for their approval and delivery to the Alameda County Health Care Services Agency (ACHCSA).
- March 25, 1998 Supervised the removal of 500 gallons of hydrocarbon contaminated groundwater stored in drums.

March 24 and 25, 1998 - Measured depth-to-groundwater and free product thickness in wells MW-1 through TMW-5 for evaluation of groundwater flow direction and gradient and collected groundwater samples from wells MW-1 through TMW-5 for analysis for total petroleum hydrocarbons as gasoline (TPHG) and methyl t-butyl ether, benzene, toluene, ethyl benzene and xylene (MBTEX). Additionally, a trip blank was analyzed for TPHG and MBTEX.

Work Conducted by TPE During Second Quarter, 1998:

June 29, 1998 - Measured depth-to-groundwater in monitoring wells MW-1 through MW-3, TMW-4, and TMW-5, for evaluation of groundwater flow direction and gradient. Collected a groundwater sample from each well for analysis for TPHG and MBTEX. Additionally, analyzed 1 trip blank sample (TMW-6) for TPHG and MBTEX.

Details of work conducted during the second quarter are presented below.

Groundwater Gradient

On June 29, 1998 depth-to-groundwater was measured from the top of casing (TOC) in all wells to the nearest 0.01 foot using an electronic Keck Instrument, Inc., KIR-89 interface probe. A minimum of 3 repetitive measurements were made for each level determination to ensure accuracy. Depth-to-groundwater was subtracted from the TOC elevation, measured relative to mean sea level, to calculate the elevation of the groundwater level in each well (see attached Table 1). When floating product was present, the groundwater elevation was corrected by multiplying the floating product thickness by a density of .75 and adding the resultant value to the groundwater elevation.

Attached Figure 1 is a groundwater gradient map constructed from the data collected on June 29, 1998. Groundwater flow direction was to the northwest with a gradient of .013 to .019 feet per foot. Average groundwater elevations, changes in average groundwater elevations, groundwater gradient, and groundwater flow directions are tabulated in attached Table 2.

Groundwater Sampling and Analytical Results

On June 29, 1998 groundwater samples were collected from groundwater monitoring wells MW-1 through MW-3, TMW-4, and TMW-5. Before sampling, the wells were purged of about 23 to 59 liters of water with dedicated polyethylene bailers and until the temperature, conductivity, and pH of the water in the wells had stabilized (see attached Records of Water Sampling). Since dedicated bailers were used for each well sampled, no decontamination was necessary between sampling events. The water samples were collected in laboratory provided, sterilized, 40-milliliter glass vials having Teflon-lined screw caps; measured for turbidity and labeled with project name, date, time collected, sample number, and sampler name. The samples were immediately stored in an iced-cooler for transport to California State Department of Health Services (DHS) certified Entech Analytical Labs, Inc., located in Sunnyvale, California accompanied by chain-of-custody documentation.

All groundwater samples, were analyzed for TPHG by the United States Environmental Protection Agency (EPA) Method 8015M and for MBTEX by the Modified EPA Method 8020.

Floating product was measured in monitoring well MW-1, during this quarterly period. Attached Table 3 summarizes the thickness of floating product measured in each well. Hydrocarbon odor and/or sheen were observed in all wells, except TMW-4.

Purge water was stored on site in 55-gallon drums labeled to show material stored, known or suspected chemical contaminant, date filled, expected removal date, company name, contact person, and telephone number.

See attached protocols for TPE's sample handling, groundwater monitoring well sampling, and quality assurance and quality control procedures.

TPHG was detected in wells MW-1, MW-2, MW-3 and TMW-5, at concentrations of 130,000 parts per billion (ppb), 12,000 ppb, 6,500 ppb, and 63,000 ppb, respectively. Well TMW-4 was nondetectable for TPHG and MBTEX chemicals. Some or all MBTEX chemicals were also detected in wells MW-1, MW-2, MW-3 and TMW-5. The reader is referred to Table 4 for a summary of MBTEX chemical concentrations.

All analytical results are summarized in attached Table 4 and documented in an attached certified analytical report and a chain-of-custody.

RECOMMENDATIONS

TPE recommends that quarterly groundwater sampling of all 5 groundwater monitoring wells be continued to evaluate gradient, to monitor contaminant concentrations and to continue removal of free product from the wells. Concentrations of TPHG and MBTEX remained consistent in all wells.

Floating was observed in only one well, MW-1.

The next sampling event is due on about September 29, 1998.

An additional copy of this report has been included for your delivery to:

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

TPE recommends that this quarterly report be submitted with a signed cover letter from Messrs. Aaron and Stanley Wong.

If you have any questions, please call TPE at (510) 429-8088.

Sincerely,

Pichard Driessens Richard S. Dreessen

Registered Geologist

RICHARD S. DREESSEN JR

No. 3165

Jeff Farhoomand,

Principal Engineer

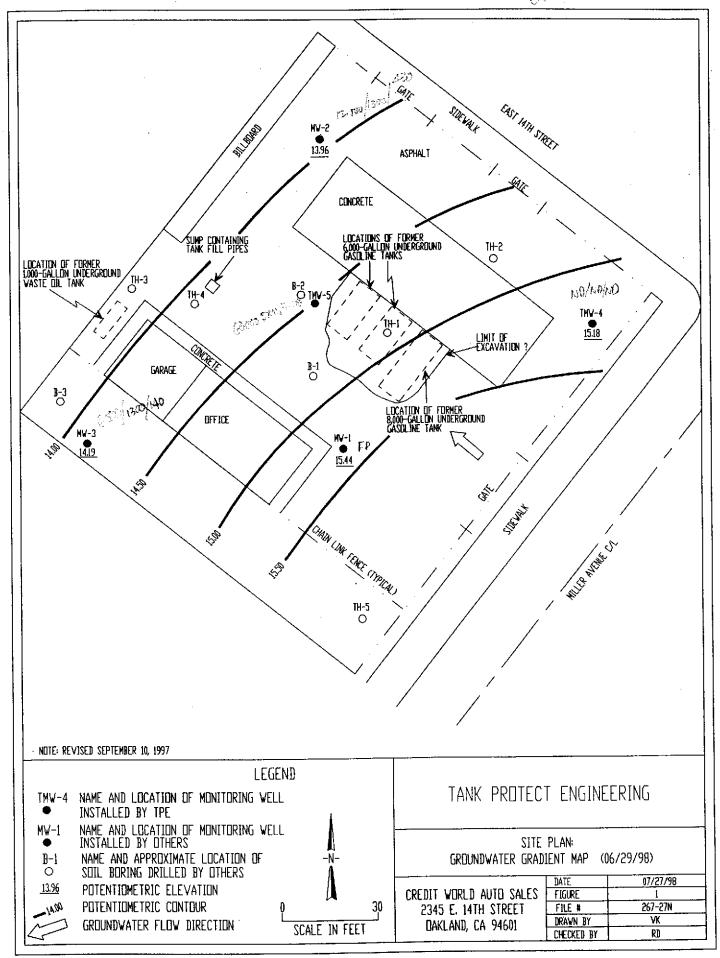


TABLE 1
GROUNDWATER ELEVATION

Well Name	Date	TOC ¹ Elevation (Feet MSL ⁴)	Depth-to-Water From TOC (Feet)	Depth to Product From TOC (Feet)	Corrected ³ Groundwater Elevation (Feet MSL)
MW-1	08/23/915	100.00^2	15.42	NA ⁹	84.58
	04/16/92 ⁶	27.33 ⁷	16.66	11.54	14.51 ⁸
	06/11/93	·	12.61	12.60	14.73
	08/17/93	1	14.40	13.63	13.50 ⁷
	03/31/94		12.64	ND	14.69
	06/27/94		14.32	13.16	13.88
	09/16/94		15.86	13.64	13.14
	03/31/95		11.82	9.48	17.27
	06/28/95		13.50	12.60	14.51
	09/28/95		14.27	13.96	13.29
	12/26/95		11.77	11.62	15.67
	03/22/96		10.52	10.44	16.87
	06/20/96		13.38	12.49	14.63
	09/24/96		14.60	13.40	13.63
-	12/27/96		9.17	9.08	18.23
	03/06/97		12.35	ND	14.98
	06/28/97		10.93	10.60	16.65
	09/18/97		13.10	12.93	14.36
	12/30/97		10.96	10.79	16.50
	03/24/98		9.33	ND	18.00
···	06/29/98		12.20	ND	15.44
MW-2	08/23/91 ⁵	98.585 ²	13.77	NA	84.815
	04/16/926	25.927	15.38	12.57	12.658
	06/11/93		13.185	ND ¹⁰	12.74
	08/17/93		14.04	14.03	11.89
	03/31/94		13.61	13.07	12.728
	06/27/94		14.24	13.44	12.28
	09/16/94		17.82	13.36	11.45

TABLE 1
GROUNDWATER ELEVATION

Well Name	Date	TOC ¹ Elevation (Feet MSL ⁴)	Depth-to-Water From TOC (Feet)	Depth to Product From TOC (Feet)	Corrected ³ Groundwater Elevation (Feet MSL)
MW-2	03/31/95	25.92 ⁷	16.72	9.28	14.78
	06/28/95		13.50	12.77	12.97
	09/28/95		14.63	14.09	11.70
	12/26/95		12.58	11.68	14.01
	03/22/96	·	11.46	11.31	14.57
	06/20/96		13.08	12.71	13.12
	09/30/96		16.67	12.92	12.06
	12/27/96		15.74	8.17	15.86
	03/06/97		12.55	ND	13.37
	06/28/97		11.98	11.94	13.97
	09/18/97		13.44	13.44	12.48
	12/30/97		11.31	ND	14.61
	03/25/98		10.02	ND	15.90
	06/29/98		11.96	ND	13.96
MW-3	08/23/91 ⁵	99.25 ²	15.07	NA	84.18
	04/16/92 ⁶	27.57 ⁷	14.14	13.98	13.55 ⁸
	06/11/93		14.275	ND	13.30
	08/17/93		15.77	ND	11.80
	03/31/94		14.35	ND	13.22
	06/27/94		14.77	ND	12.80
	09/16/94		15.42	15.37	12.19
	03/31/95		12.98	12.52	14.94
	06/28/95		14.20	14.15	13.41
	09/28/95		15.17	ND	12.40
	12/26/95		13.33	13.27	14.28
	03/22/96		12.81	12.77	14.79
	06/20/96	,	13.95	13.88	13.67
	09/24/96	·	14.86	14.82	12.74

TABLE 1
GROUNDWATER ELEVATION

Well Name	Date	TOC ¹ Elevation (Feet MSL ⁴)	Depth-to-Water From TOC (Feet)	Depth to Product From TOC (Feet)	Corrected ³ Groundwater Elevation (Feet MSL)
MW-3	12/27/96	27.57 ⁷	11.04	10.98	16.58
	03/07/97		13.80	ND	13.77
	06/28/97		13.72	13.66	13.89
	09/18/97		14.76	ND	12.81
	12/30/97		12.97	ND	14.60
	03/24/98		11.75	ND	15.82
	06/29/98		13.38	ND	14.19
TMW-4	08/17/93	26.50 ⁷	13.26	ND	13.24
	03/31/94		12.40	ND	14.10
	06/27/94		12.84	ND	13.66
	09/16/94		13.58	ND	12.92
	03/31/95		10.23	ND	16.27
	06/28/95		12.21	ND	14.29
	09/28/95		13.38	ND	13.12
	12/26/95		11.32	ND	15.18
	03/22/96		10.54	ND	15.96
	06/20/96		12.14	ND	14.36
	09/24/96		13.01	ND	13.49
	12/27/96		9.51	ND	16.99
	03/07/97		11.92	ND	14.58
	06/28/97		10.70	ND	15.80
	09/18/97		12.94	ND	13.56
	12/30/97		10.92	ND	15.58
	03/25/98		9.60	ND	16.90
	06/29/98		11.32	ND	15.18
TMW-5	08/17/93	26.517	12.98	12.95	13.55
	03/31/94		11.39	ND	15.12

TABLE 1
GROUNDWATER ELEVATION

Well Name	Date	TOC ¹ Elevation (Feet MSL ⁴)	Depth-to-Water From TOC (Feet)	Depth to Product From TOC (Feet)	Corrected ³ Groundwater Elevation (Feet MSL)
TMW-5	06/27/94	26.51 ⁷	12.24	ND	13.53
	09/16/94		13.02	12.97	13.53
	03/31/95		7.38	ND	19.13
	06/28/95		11.31	11.25	15.25
	09/28/95		14.42	ND	12.09
	12/26/95		10.16	10.11	16.38
	03/22/96		7.59	7.54	18.96
	06/26/9611		7.12	ND	NA
	09/30/9611		7.42	ND ¹⁰	NA ⁹
	12/27/96 ¹¹		6.38	ND	NA
	03/07/97 ¹¹		11.12	ND	NA
	08/17/93 ¹¹		12.98	12.95	13.55
	09/18/97 ¹¹		12	ND	
·	12/30/9711		8.97	ND	
	03/25/9811		7.32	ND	
	06/29/98 ¹¹		11.50	ND	

¹ TOP-OF-CASING.

² RELATIVE TO SITE DATUM ESTABLISHED BY ESE.

³ ELEVATION CORRECTED FOR FLOATING PRODUCT USING 0.75 DENSITY FOR GASOLINE.

⁴ MEAN SEA LEVEL.

⁵ WATER LEVEL MEASUREMENTS BY ESE.

⁶ WATER LEVEL MEASUREMENTS BY NKJ.

⁷ TOC SURVEYED 8/10/93 BY PROFESSIONAL ENGINEER.

⁸ CORRECTED GROUNDWATER ELEVATION BY TANK PROTECT ENGINEERING.

⁹ NOT AVAILABLE.

¹⁰ NOT DETECTED.

¹¹ WELL TOP DESTROYED DURING REMEDIATION

¹² NOT MEASURED - WELL OBSTRUCTED

TABLE 2
GROUNDWATER GRADIENTS, FLOW DIRECTIONS,
AND ELEVATION DATA

Date	Average Groundwater Elevation (Feet-MSL ¹)			Groundwater Flow Direction
04/16/92	13.57		.021	NW
06/11/93	13.59	0.02	.026	NW
08/17/93	12.80	-0.79	.029	RADIAL
03/31/94	13.97	+1.17	.050	RADIAL
06/27/94	13.38	-0.59	.020	RADIAL
09/16/94	12.65	-0.73	.01790411	RADIAL
03/31/95	16.48	+3.83	.075	RADIAL
06/28/95	14.09	-2.39	.025053	RADIAL
09/28/95	12.52	-1.57	.025	NW
12/26/95	15.09	+2.57	.048	RADIAL
03/22/96	16.23	+1.14	.034132	RADIAL
06/20/96 ²	13.95	-2.28	.016	NW
09/30/96 ²	12.98	-0.97	.019	NW
12/27/96 ²	16.41	+3.43	.024029	N-NW
03/07/97 ²	14.18	-2.23	.020035	N-NW
06/28/97 ²	15.07	+.89	.02704	NW
09/18/97 ²	13.30	-1,77	.02026	RADIAL
12/30/97 ²	15.32	+2.02	.025030	N-NW
03/25/98 ²	16.65	+1.34	.021033	RADIAL
06/29/98 ²	14.69	-1.96	.013019	NW

¹ MEAN SEA LEVEL.

² DOES NOT INCLUDE DATA FOR TMW-5; WELL TOP DESTROYED DURING REMEDIATION ACTIVITIES.

TABLE 3 SUMMARY OF FLOATING PRODUCT THICKNESS

Well Name	Date	Depth-to-Water From TOC ¹ (Feet)	Depth-to-Product From TOC (Feet)	Product Thickness (Feet)
MW-1	04/16/92 ²	16.66	11.54	5.12
	06/11/93	12.61	12.60	0.01
	08/17/93	14.40	13.63	0.77
	03/31/94	12.64	ND	
	06/27/94	14.32	13.16	1.16
	09/16/94	15.86	13.64	2.22
	03/31/95	11.82	9.48	2.34
	06/28/95	13.50	12.60	0.90
	09/28/95	14.27	13.96	0.31
	12/26/95	11.77	11.62	0.15
	03/22/96	10.52	10.44	0.08
	06/20/96	13.38	12.49	0.089
	09/24/96	14.60	13.40	1.20
	12/27/96	9.17	9.08	0.09
	03/06/97	12.35	ND	
	06/28/97	10.93	10.60	0.33
	09/18/97*	13.10	12.93	.17
	12/30/97	10.96	10.79	0.17
	03/24/98	9.33	ND	
	06/29/98	12.20	11.78	0.42
MW-2	04/16/92 ²	15.38	12.57	2.81
	06/11/93	13.185	ND ³	
	08/17/93	14.04	14.03	0.01
	03/31/94	13.61	13.07	0.54
	06/27/94	14.24	13.44	0.80
	09/16/94	17.82	13.36	4.46
	03/31/95	16.72	9.28	7.44
	06/28/95	13.50	12.77	0.73

TABLE 3
SUMMARY OF FLOATING PRODUCT THICKNESS

Well Name	Date	Depth-to-Water From TOC ¹ (Feet)	Depth-to-Product From TOC (Feet)	Product Thickness (Feet)
MW-2	09/28/95	14.63	14.09	0.54
	12/26/95	12.58	11.68	0.90
'	03/22/96	11.46	11.31	0.15
	06/20/96	13.08	12.71	0.37
	09/30/96	16.67	12.92	3.75
	12/27/96	15.74	8.17	7.57
	03/06/97	12.55	ND	
	06/28/97	11.98	11.94	0.04
	09/18/97*	13.44	13.44	TRACE
	12/30/97	11.31	ND	
	03/25/98	10.02	ND	
	06/29/98	11.96	ND	
MW-3	04/16/92 ²	14.14	13.98	0.16
	06/11/93	14.275	ND	
	08/17/93	15.77	ND	
	03/31/94	14.35	ND	
	06/27/94	14.77	ND	
	09/16/94	15.42	15.37	
	03/31/95	12.98	12.52	0.46
	06/28/95	14.20	14.15	0.05
	09/28/95	15.7	ND	
	12/26/95	13.33	13.27	0.06
	03/22/96	12.81	12.77	0.04
	06/20/96	13.95	13.88	0.07
	09/24/96	14.86	14.82	0.04
	12/27/96	11.04	10.98	0.06
	03/07/97	13.80	ND	
	06/28/97	13.72	13.66	0.06

TABLE 3 SUMMARY OF FLOATING PRODUCT THICKNESS

Well Name	Date	Depth-to-Water From TOC ¹ (Feet)	Depth-to-Product From TOC (Feet)	Product Thickness (Feet)
MW-3	09/18/97	14.76	ND	
	12/30/97	12.97	ND	
	03/24/98	11.75	ND	
	06/29/98	13.38	ND	
TMW-4	08/17/93	13.26	ND	
	03/31/94	12.40	ND	
	06/27/94	12.84	ND	
	09/16/94	13.58	ND	·
	03/31/95	10.23	ND	
	06/28/95	12.21	ND	
	09/28/95	13.38	ND	
	12/26/95	11.32	ND	
	03/22/96	10.54	ND	
	06/20/96	12.14	ND	
	09/24/96	13.01	ND	
	12/27/96	9.51	ND	
	03/07/97	11.92	ND	455
	06/28/97	10.70	ND	
	09/18/97*	12.94	ND	
	12/30/97	10.92	ND	****** ·
	03/25/98	9.60	ND	
	06/29/98	11.32	ND	
TMW-5	08/17/93	12.98	12.95	0.03
	03/31/94	11.39	ND	
	06/27/94	12.24	ND	
	09/16/94	13.02	12.97	0.05
	03/31/95	7.38	ND	
	06/28/95	11.31	11.25	0.06

TABLE 3
SUMMARY OF FLOATING PRODUCT THICKNESS

Well Name	Date	Depth-to-Water From TOC ¹ (Feet)	Depth-to-Product From TOC (Feet)	Product Thickness (Feet)	
TMW-5	09/28/95	14.42	ND		
	12/26/95	10.16	10.11	0.05	
	03/22/96	7.59	7.54	0.05	
	06/20/9611	7.12	ND		
	09/30/9611	7.42	ND		
	12/27/9611	6.38	ND		
	03/07/97 ¹¹	11.12	ND		
	06/28/9712	NM ¹²	ND ¹²		
	09/18/97*	12.00	ND		
	12/30/97	8.97	ND		
	03/25/98	7.32	ND		
	06/29/98	11.50	ND		

¹ TOP-OF-CASING.

² RELATIVE TO SITE DATUM ESTABLISHED BY ESE.

³ ELEVATION CORRECTED FOR FLOATING PRODUCT USING 0.75 DENSITY FOR GASOLINE.

⁴ MEAN SEA LEVEL

⁵ WATER LEVEL MEASUREMENTS BY ESE.

⁶ WATER LEVEL MEASUREMENTS BY NKJ.

⁷ TOC SURVEYED 8/10/93 BY PROFESSIONAL ENGINEER.

⁸ CORRECTED GROUNDWATER ELEVATION BY TANK PROTECT ENGINEERING.

⁹ NOT AVAILABLE.

¹⁰ NOT DETECTED.

¹¹ WELL TOP DESTROYED DURING REMEDIATION

¹² NOT MEASURED - WELL OBSTRUCTED

^{*} VISUAL MEASUREMENTS FROM BAILER

TABLE 4
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
(ppb1)

Sample ID Name	Date	ТРНС	Methyl t- Butyl Ether	Benzene	Toluene	Ethyl- benzene	Xylenes
MW-1	08/17/93	110,000	NA ²	270	690	730	3,100
-	03/28/94	34,000	NA	4,900	1,800	1,200	4,000
	06/27/94	21,000	NA	12,000	810	760	2,500
	09/16/94	37,000	NA	7,900	2,400	1,300	3,300
-	03/31/95	43,000	NA	8,100	1,900	1,000	4,200
	06/28/95	80,000	NA	7,900	3,200	1,800	7,300
	09/28/95	24,000	<1,200	4,900	470	470	1,700
	12/26/95	61,000	<1,200	12,000	4,200	1,500	5,500
	03/22/96	19,000	<2,500	6,000	47	260	<750
	06/20/96	15,000	910	2,900	100	240	98
	09/24/96	20,000	340	4,800	220	300	770
	12/27/96	24,000	< 5.0	5,900	440	310	740
	03/07/97	30,000	<5.0	5,700	370	290	780
	06/28/97	54,000	<5.0	5,200	1,300	1,000	4,900
	09/18/97	54,000	< 5.0	5,300	1,200	1,100	4,600
	12/30/97	61,000	1,400	4,300	1,800	1,600	6,900
	03/24/98	24,000	2,000	1,000	1,000	1,300	4,300
	06/29/98	130,000	3,300	3,800	370	1,200	4,200
MW-2	08/17/93	49,000	NA	94	240	250	980
	03/28/94	14,000	NA	4,200	<250	910	1,400
	06/27/94	24,000	NA	4,400	72	1,100	1,700
	09/16/94	40,000	NA	2,300	250	2,000	4,100
	03/31/95	28,000	NA	4,000	<120	1,100	1,400
	06/28/95	40,000	NA	2,700	130	1,700	2,900
	09/28/95	7,500	< 62	420	14	250	190
	12/26/95	22,000	<250	1,300	88	950	1,800
	03/22/96	9,800	<1,200	2,200	< 120	400	<380
	06/20/96	35,000	550	770	< 0.50	240	< 0.50

TABLE 4
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
(ppb¹)

Sample ID Name	Date	TPHG	Methyl t- butyl ether	Benzene	Toluene	Ethyl- benzene	Xylenes
MW-2	09/30/96	58,000	<5.0	1,600	230	2,200	4,000
	12/27/96	29,000	< 5.0	2,100	< 0.50	1,200	1,800
	03/07/97	13,000	< 5.0	1,300	37	290	180
	06/28/97	12,000	<5.0	840	< 0.50	640	360
	09/18/97	12,000	<5.0	680	< 0.50	320	84
	12/30/97	13,000	<5.0	1,100	40	350	220
	03/25/98	8,100	670	1,300	51	410	230
	06/29/98	12,000	430	880	13	180	72
MW-3	08/17/93	9,600	NA	4.1	17	28	54
	03/28/94	8,400	NA	2,400	56	67	200
	06/27/94	9,900	NA	3,300	<22	< 25	73
	09/16/94	16,000	NA	2,300	80	620	240
	03/31/95	16,000	NA	2,800	70	<25	920
	06/28/95	11,000	NA	2,300	32	81	240
	09/28/95	6,300	< 420	1,900	<42	200	< 120
	12/26/95	25,000	<250	3,800	97	94	1,600
	03/22/96	16,000	250	3,100	75	69	350
	06/20/96	8,500	220	1,400	28	140	15
	09/24/96	12,000	<5.0	2,400	87	340	110
	12/27/96	5,800	240	1,700	28	< 0.50	42
	03/10/97	9,000	< 5.0	1,700	< 0.50	110	< 0.50
	06/28/97	15,000	<5.0	2,200	< 0.50	160	190
	09/18/97	28,000	<5.0	3,800	< 0.50	100	< 0.50
	12/30/97	21,000	300	2,200	< 0.50	31	< 0.50
	03/24/98	2,300	85	870	7.2	20	< 0.50
	06/29/98	6,500	140	1,300	12	62	14
TMW-4	08/17/93	150	NA	< 0.50	0.8	1.4	3.7
	03/28/94	< 50	NA	< 0.50	< 0.50	< 0.50	<1.5
	06/27/94	<50	NA	< 0.50	< 0.50	< 0.50	<1.5
	09/16/94	< 50	NA	< 0.50	< 0.50	< 0.50	<1.5

TABLE 4
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
(ppb1)

Sample ID Name	Date	ТРНС	Methyl t- butyl ether	Benzene	Toluene	Ethyl- benzene	Xylenes
TMW-4	03/31/95	<50	NA	< 0.50	< 0.50	< 0.50	<1.5
	06/28/95	< 50	NA	< 0.50	< 0.50	< 0.50	<1.5
	09/28/95	<50	<5.0	< 0.50	< 0.50	< 0.50	<1.5
	12/26/95	< 50	<5.0_	< 0.50	< 0.50	< 0.50	<1.5
	03/22/96	<50	<5.0	< 0.50	< 0.50	< 0.50	<1.5
	06/20/96	<50	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
	09/24/96	<50	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
	12/27/96	< 50	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
<u> </u>	03/10/97	<50	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
	06/27/97	< 50	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
	09/18/97	<50	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
	12/30/97	<50	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
	03/25/98	<50	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
	06/29/98	<50	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
TMW-5	08/17/93	120,000	NA	640	730	790	3,600
	03/28/94	70,000	NA	23,000	1,500	4,100	15,000
	06/28/94	56,000	NA	26,000	940	5,500	26,000
	09/16/94	96,000	NA	17,000	720	3,500	12,000
	03/31/95	64,000	NA	13,000	470	3,500	6,100
	06/28/95	65,000	NA	9,000	240	2,600	5,300
	09/28/95	79,000	<1,200	17,000	1,800	2,700	7,000
	12/26/95	110,000	<1,200	11,000	800	2,300	4,500
	06/26/96	30,000	830	4,000	180	1,500	2,500
	09/30/96	6,900	<5.0	1,600	79	130	370
	12/27/96	78,000	<5.0	12,000	1,900	2,900	9,700
	03/10/97	84,000	<5.0	9,900	1,100	2,600	8,800
	06/28/97	NA	NA	NA	NA	NA	NA
	09/18/97	65,000	< 5.0	8,000	<0.5	2,000	4,700
	12/30/97	79,000	<5.0 \ ²	6,400	340	2,300	5,500
	03/25/98	20,000	2,400	6,000	260	2,700	5,800

TABLE 4 SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS (ppb¹)

Sample ID Name	Date	ТРНG	Methyl t- butyl ether	Benzene	Toluene	Ethyl- benzene	Xylenes
TMW-5	06/29/98	63,000	3,400	5,700	410	2,400	5,500
TMW-6	09/18/97 ³	<50.0	<5.0	<0.5	< 0.5	< 0.5	< 0.5
	12/30/97 ³	<50.0	<5.0	< 0.5	<0.5	< 0.5	<0.5
	03/25/98 ³	<50.0	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	06/29/98 ³	<50.0	<5.0	<0.5	< 0.5	< 0.5	< 0.5

PARTS PER BILLION.
 NOT ANALYZED.
 TRIP BLANKS.

SAMPLE HANDLING PROCEDURES

Soil and groundwater samples will be packaged carefully to avoid breakage or contamination and will be delivered to the laboratory in an iced-cooler. The following sample packaging requirements will be followed.

- . Sample bottle/sleeve lids will not be mixed. All sample lids will stay with the original containers and have custody seals affixed to them.
- Samples will be secured in coolers to maintain custody, control temperature and prevent breakage during transportation to the laboratory.
- . A chain-of-custody form will be completed for all samples and accompany the sample cooler to the laboratory.
- Ice, blue ice or dry ice (dry ice will be used for preserving soil samples collected for the Alameda County Water District) will be used to cool samples during transport to the laboratory.
- Water samples will be cooled with crushed ice. In the Alameda County Water District, water samples will be buried in the crushed ice with a thermometer, and the laboratory will be requested to record thermometer temperature at the time of receipt.
- Each sample will be identified by affixing a pressure sensitive, gummed label or standardized tag on the container(s). This label will contain the site identification, sample identification number, date and time of sample collection and the collector's initials.
- . Soil samples collected in brass tubes will be preserved by covering the ends with Teflon tape and capping with plastic end-caps. The tubes will

be labeled, sealed in quart size bags and placed in an iced-cooler for transport to the laboratory.

All groundwater sample containers will be precleaned and will be obtained from a State Department of Health Services certified analytical laboratory.

Sample Control/Chain-of-Custody: All field personnel will refer to this workplan to verify the methods to be employed during sample collection. All sample gathering activities will be recorded in the site file; all sample transfers will be documented in the chain-of-custody; samples will be identified with labels; all sample bottles will be custody-sealed. All information is to be recorded in waterproof ink. All TPE field personnel are personally responsible for sample collection and the care and custody of collected samples until the samples are transferred or properly dispatched.

The custody record will be completed by the field technician or professional who has been designated by the TPE project manager as being responsible for sample shipment to the appropriate laboratory. The custody record will include, among other things, the following information: site identification, name of person collecting the samples, date and time samples were collected, type of sampling conducted (composite/grab), location of sampling station, number and type of containers used and signature of the TPE person relinquishing samples to a non-TPE person with the date and time of transfer noted. The relinquishing individual will also put all the specific shipping data on the custody record.

Records will be maintained by a designated TPE field employee for each sample: site identification, sampling location, station number, date, time, sampler's name, designation of the sample as a grab or composite, notation of the type of sample (e.g., groundwater, soil boring, etc.), preservatives used, onsite measurement data and other observations or remarks.

GROUNDWATER MONITORING WELL SAMPLING PROCEDURES

Groundwater monitoring wells will not be sampled until at least 24 to 72 hours (according to local regulatory guidelines) after well development. Groundwater samples will be obtained using a bladder pump, clear Teflon bailer or dedicated polyethylene bailer. Prior to collecting samples, the sampling equipment will be thoroughly decontaminated to prevent introduction of contaminants into the well and to avoid cross-contamination. Monitoring wells will be sampled after 3 to 10 wetted casing volumes of groundwater have been evacuated and pH, electrical conductivity and temperature have stabilized as measured with a Hydac Digital Tester. If the well is emptied before 3 to 10 well volumes are removed, the sample will be taken when the water level in the well recovers to 80% or more of its initial water level.

When a water sample is collected, turbidity of the water will be measured and recorded with a digital turbidimeter. Degree of turbidity will be measured and recorded in nephelometric turbidity units (NTU).

TPE will also measure the thickness of any floating product in the monitoring wells using an interface probe or clear Teflon or polyethylene bailer. The floating product will be measured after well development but prior to the collection of groundwater samples. If floating product is present in the well, TPE will recommend to the client that product removal be commenced immediately and reported to the appropriate regulatory agency.

Unless specifically waived or changed by the local, prevailing regulatory agency, water samples will be handled and preserved according to the latest United States Environmental Protection Agency methods as described in the Federal Register (Volume 44, No. 233, Page 69544, Table II) for the type of analysis to be performed.

Development and/or purge water will be stored on site in labeled containers. The disposal of the containers and development and/or purge water is the responsibility of the client.

MEASUREMENTS

<u>Purged Water Parameter</u>: During purging, discharged water will be measured for the following parameters.

<u>Parameter</u>	Units of Measureme
рН	None
Electrical Conductivity	Micromhos
Temperature	Degrees F or C
Depth to Water	Feet/Hundredths
Volume of Water Discharged	Gallons
Turbidity	NTU

<u>Documentation:</u> All parameter measurements will be documented in writing on TPE development logs.

QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

The overall objectives of the field sampling program include generation of reliable data that will support development of a remedial action plan. Sample quality will be checked by the use of proper sampling, handling and testing methods. Additional sample quality control methods may include the use of background samples, equipment rinsate samples and trip and field blanks. Chain-of-custody forms, use of a qualified laboratory, acceptable detection limits and proper sample preservation and holding times also provide assurance of accurate analytical data.

TPE will follow a quality assurance and quality control (QA/QC) program in the field to ensure that all samples collected and field measurements taken are representative of actual field and environmental conditions and that data obtained are accurate and reproducible. These activities and laboratory QA/QC procedures are described below.

<u>Field Samples</u>: Additional samples may be taken in the field to evaluate both sampling and analytical methods. Three basic categories of QA/QC samples that may be collected are trip blanks, field blanks and duplicate samples.

Trip blanks are a check for cross-contamination during sample collection, shipment, and laboratory analysis. They are water samples that remain with the collected samples during transportation and are analyzed along with the field samples to check for residual contamination. Analytically confirmed organic-free water will be used for organic parameters and deionized water for metal parameters. Blanks will be prepared by the laboratory supplying the sample containers. The blanks will be numbered, packaged and sealed in the same manner as the other samples. One trip blank will be used for sets greater than 20 samples. The trip blank is not to be opened by either the sample collectors or the handlers.

The field blank is a water sample that is taken into the field and is opened and exposed at the sampling point to detect contamination from air exposure. The water

sample is poured into appropriate containers to simulate actual sampling conditions. Contamination due to air exposure can vary considerably from site to site.

The laboratory will not be informed about the presence of trip and field blanks, and false identifying numbers will be put on the labels. Full documentation of these collection and decoy procedures will be made in the site log book.

Duplicate samples are identical sample pairs (collected in the same place and at the same time), placed in identical containers. For soils, adjacent sample liners will be analyzed. For the purpose of data reporting, one is arbitrarily designated the sample, and the other is designated as a duplicate sample. Both sets of results are reported to give an indication of the precision of sampling and analytical methods.

The laboratory's precision will be assessed without the laboratory's knowledge by labeling one of the duplicates with false identifying information. Data quality will be evaluated on the basis of the duplicate results.

Laboratory OA/OC: Execution of a strict QA/QC program is an essential ingredient in high-quality analytical results. By using accredited laboratory techniques and analytical procedures, estimates of the experimental values can be very close to the actual value of the environmental sample. The experimental value is monitored for its precision and accuracy by performing QC tests designed to measure the amount of random and systematic errors and to signal when correction of these errors is needed.

The QA/QC program describes methods for performing QC tests. These methods blanks, calibration standards. check standards (both involve analyzing method Environmental Protection Agency-certified independent and the United States Internal QC also requires standards), duplicates, replicates and sample spikes. adherence to written methods, procedural documentation and the observance of good laboratory practices.

ROJECT	NO.: 267	DATE:		<u>, </u>				WELL NO.: MW-1
ROJECT	NAME: Cred	t Wa	W Hu	to Sa	la			WELL DIAMETER:
ROJECT	LOCATION:_	2345	E.14	<u>te </u>				TOC ELEV:
AMPLER	にして	M						LOCK NO.:
ANALYSE	s:TP46	M	BIEX					
VELL DE	EPTH (from con	struction	n detail):				;	E 19th ST.
WELL DE	EPTH (measured): <u>33 </u>	ĕΨ_sof	T BOTT	OM?:			
DEPTH I	O WATER:	ະໝ	TIN	ие:\`-	00	_		•
	E (circle one)?:							
	VAS PRESSURE			SITIVE (OR NEG	ATIVE?		
WATER	volume in v	VELL:	3.50	. (Nn-1
2-INCH	CASING = 0.16	GAL/F	T] (4-I	NCH CA		0,65 GAL/	FT]	BLDG
K-INCH (CASINO = 1.4.	UALI						
[6-INCH	CASING = 1.47	CALIT	1) [10	· .	•			LOCATION MAP
				•				LOCATION MAP
				•		ACTU	JAL PURGE	LOCATION MAP VOL. (GAL):(L):
CALCUL		VOL. (•				
CALCUL	ATED PURGE	VOL. ((L)			MPLE METI	VOL. (GAL):(L):
CALCUL	ATED PURGE METHOD:	VOL. ((GAL):	FIE pH	LD ME	SA	MPLE METI	VOL. (GAL):(L):
CALCUL PURGE Time	ATED PURGE METHOD:	VOL. (Temp	FIE pH	LD ME	SAI ASUREM	MPLE METH MENTS Turbidity (NTU)	VOL. (GAL):(L):
CALCUL PURGE	ATED PURGE METHOD:	Vol. (Temp (Deg. F)	FIE pH	LD ME EC +10 ³ 1.34	SAI ASUREN	MPLE METH MENTS Turbidity (NTU)	VOL. (GAL):(L):
CALCUL PURGE Time	ATED PURGE METHOD:	Vol. (CL)	Temp (Deg. F)	FIE pH [4.02	EC +10 ³	SAI ASUREM	MPLE METH MENTS Turbidity (NTU)	VOL. (GAL): HOD: Remarks Documed = I by Honting Towned in Location
CALCUL PURGE Time	ATED PURGE METHOD:	Vol. (CL)	Temp (Deg. F) 71-4 (49-5	PH 14.02 16 80	EC +103	SAI ASUREM	MPLE METH MENTS Turbidity (NTU)	VOL. (GAL): HOD: Remarks Documed = I by Honting Towned in Location
CALCUL PURGE	ATED PURGE METHOD:	Vol. (C)	Temp (Deg. F)	PH 14.02 14.80	EC +10 ³	SAI ASUREM	MPLE METH MENTS Turbidity (NTU)	Remarks The evel = I of floating John white whore
CALCUL PURGE Time	ATED PURGE METHOD:	Vol. (CL)	Temp (Deg. F) 71-4 (49-5	PH 14.02 16 80	EC +103	SAI ASUREM	MPLE METH MENTS Turbidity (NTU)	VOL. (GAL): HOD: Remarks Documed = I by Honting Towned in Location
CALCUL PURGE	ATED PURGE METHOD:	Vol. (C)	Temp (Deg. F) 71-4 (49-5	PH 14.02 16 80	EC +103	SAI ASUREM	MPLE METH MENTS Turbidity (NTU)	Remarks The evel = I of floating John white whore
CALCUL PURGE	ATED PURGE METHOD:	Vol. (C)	Temp (Deg. F) 71-4 (49-5	PH 14.02 16 80	EC +103	SAI ASUREM	MPLE METH MENTS Turbidity (NTU)	Remarks The evel = I of floating John white whore
Time	ATED PURGE METHOD:	Vol. (C)	Temp (Deg. F) 71-4 (49-5	PH 14.02 16 80	EC +103	SAI ASUREM	MPLE METH MENTS Turbidity (NTU)	Remarks The evel = I of floating John white whore

SIGNATURE:

WATER VOL. IN DRUM:______ NEED NEW DRUM?:_____

PROJECT NO.: 267 DATE: 6/24/48	WELL NO.: MW-L
PROJECT NAME: Credit World Ando Sales	WELL DIAMETER: 2'9
PROJECT LOCATION: 234 E. 14th st.	TOC ELEV:
SAMPLER:LT D	LOCK NO.: UPT
ANALYSES: TPHE MOTER	
WELL DEPTH (from construction detail):	
WELL DEPTH (measured): 29-12 SOFT BOTTOM?:	E 14th
DEPTH TO WATER: 11.96 TIME: 9:00	
PRESSURE (circle one)?: YES OR NO	2 M 2000/
IF YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?	3 MW-2
WATER VOLUME IN WELL: 2000	
[2-INCH CASING = 0.16GAL/FT] [4-INCH CASING = 0.65GAL/FT]	
[6-INCH CASING = 1.47GAL/FT] [1 GAL = 3.78L]	2406
	LOCATION MAP
CALCULATED PURGE VOL. (GAL): (L): ACTUAL PURGE	VOL. (GAL):(L):
PURGE METHOD: SAMPLE MET	HOD:
FIELD MEASUREMENTS	

Time	Depth to Water (FT)	Vol (L)	Temp (Deg. F)	рН	EC	Clarity	Turbidity (NTU)	Remarks
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4.24		ďε	63.7	7.43	0.49			
্ৰ		ىل	(13.9	7,49	0.75			
10.02		44	63.4	7.49	0.94			A
10.05		,						* Collected under south
								-tran MW-2
								J

SIGNATURE

WATER VOL. IN DRUM:_ NEED NEW DRUM?:_

			, .				÷.		
PROJECT	NO.: 147	DATE:	6/29/98	,	ا فقیمی	· 1	i jakan	WELL NO.:_ MU	<u>-3</u>
PROJECT	NAME: 134				may 1	2 shuf	alex	WELL DIAMETER:	
PROJECT	LOCATION: 2	345 (5. 14th	P		•		TOC ELEV:	
SAMPLEF	2: LT- UF						••	LOCK NO.:	
ANALYSI	ES: TAPAG, M	1BTEK		<u></u>	<u> </u>			5 14th	
WELL DE	EPTH (from cor	struction	detail):				ļ	5 14	
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DEPTH 1	o water:	<u> १६८</u>	AIT	1E: 31	<u> </u>	_			
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if yes, v	VAS PRESSURI	E (circle	one): PO	SITIVE (OR NEGA	ATIVE?		BLDG	きこして
			72 U					_	
	VOLUME IN V						c ar l	Ø MW-3	
-	CASING = 0.16 $CASING = 1.46$					0.65 GAL/	r1]		
[6-INCH	CASING = 1.4°	/ OAL/F	1) (10	3AL = 3.	70 LJ			LOCATION MAP	
CALCUL	ATED PURGE	VOL.	(GAL): 13.	7_(L)	:_22	ACTU	AL PURGE	VOL. (GAL):(L):	
PURGE	METHOD:	•				SA	MPLE METH	IOD:	
			•	FIE	LD ME	ASUREM	IENTS		
F	<u> </u>		<u> </u>			Cl. de	Turbidity	Remarks	1
Time	Depth to Water (FT)	Vol (L)	Temp (Deg. F)	pН	klo ₂	Clarity	(NTU)	. Venarka	
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SIGNATURE:

WATER VOL. IN DRUM:__ NEED NEW DRUM?:__

PROJECT	NO.: 267 NAME: Cred	14 P	- N-1	o Sal	<u>.</u>			WELL	WELL NO		<u>식</u>
PROJECT	LOCATION:_	224	E. 19	1 Th CI	• ·				TOC ELE	V:	
SAMPLER	:して・	1			,		* .		LOCK NO	كامل د	
ANALYSE	s:	× 10	श्राह्य								
WELL DE	PTH (from con	struction	detail):								
WELL DE	PTH (measured): <u> 33 .</u>	ှ <u>ံ</u> sof	T BOTT	OM?:1	<u> </u>		E. 14th			
DEPTH T	O WATER:	1.32	TIN	1E: 10	:21	-				,a	-
PRESSURI	E (circle one)?:	YES	OR NO							₹) TMW-4	137 144
IF YES, W	AS PRESSURE	(circle	one): PO	SITIVE (OR NEGA	TIVE?				,, ,	'
											3
	OLUME IN W				 .						-
-	CASING = 0.16),65 GAL/I	FT)				
[6-INCH C	CASING = 1.47	GAL/F	Τ] [1 0	GAL = 3.	78 L]						
								LO	CATION MAP		
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	METHOD:							IOD:			
·			-	FIE	LD ME	ASUREN	MENTS				
	<u></u>			<u> </u>	· ·						7
Time	Depth to Water (FT)	Voi (L)	Temp (Deg. F)	pН	EC 3	Clarity	Turbidity (NTU)	R	emarks	_	
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10.52		4_		 				Turbod		<u>-</u>	
		5 0	43.8	16.42	0.74			1000		-	
		दग	65.0	13.42	 -	<u> </u>				<u>,</u>	1
<u> </u>		28	4.20	16.43	0.74				<u> </u>		1
		59	45.4	16.44	0.74				734	·	\dashv
11:09		<u> </u>			<u> </u>	<u> </u>		Colleged T	MM-1	sarde	\dashv
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<u> </u>				<u> </u>		-	WATE	R VOL. IN DR	UM:		
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ROJECT	NO.: 207	DATE:	6/27/9	<u>s</u> ,			: .	WELL NO.: TMW- E
ROJECT	NAME: ()ea	12 W	and Alah	1-2 c	t.			WELL DIAMETER: 2"7
ROJECT	LOCATION:_	2 3−	5 \F	্ব				TOC ELEV:
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	ES:				•		[
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WELL DE	PTH (measured	l): <u> </u>	. 18 sof	т вотто	DM?:μ	<u> </u>		
рертн т	O WATER:	1.50	TIM	ИЕ: <u> ;</u>	27	_		
RESSUR	E (circle one)?:	YES	OR NO				1	
F YES, V	vas pressuri	E (circle	one): POS	SITIVE C	R NEGA	TIVE?		
2-INCH	VOLUME IN V	GAL/F	T] [4-I]).65 G AL /]	FT]	& TMW-I
6-INCH	CASING = 1.4	7 GAL/F	T] [1 G	iAL = 3.	78 L]			LOCATION MAP
	ATED PURGE						MPLE METH	VOL. (GAL):(L):
Time	Depth to Water (FT)	Vol (L)	Temp (Deg. F)	рН	K/0,	Clarity	Turbidity (NTU)	Remarks
11171		1	(2.5	14.40	1,10	Clar		Strong hydrocatoon adar,
11:31		-		14.34	1.10			observed shear
11.40	<u> </u>	21	62.5					000
11.42		22	43.1	14.37	1.15			***
11.42	<u> </u>	33	43.5	14.37	1.12		#	Colleged Sombe TMW-5
11.00								-5 et (
			 	<u> </u>				
		<u> </u>	<u> </u>	<u> </u>		<u> </u>		
II.			1	I	l .	(.	1.	I .
	<u> </u>			<u> </u>		<u> </u>		

SIGNATURE:__

WATER VOL. IN DRUM:____ NEED NEW DRUM?:____ 525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Tank Protect Engineering

2821 Whipple Road

Union City, CA 94587-1233

Attn: Louis Travis III

Date: 7/9/98

Date Received: 7/1/98

Project: 267-062998

PO #: 1481

Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-1			MW-2			MW-3				
Sample Date	6/29/98			6/29/98			6/29/98		, .		
Sample Time							4:15				
Lab#				E12585			E12586				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Results in µg/Liter:											
Analysis Date	7/6/98	i	·	7/6/98			7/2-7/6/1998				
TPH-Gas	130,000	100	5000	12,000	10	500	6,500	3.0	150	50	8015M
MTBE	3,300	100	500	430	10	50	140	3.0	15	5	8020
Benzene	3,800	100	50	880	10	5	1,300	100	50	0.50	8020
Toluene	370	100	50	13	10	5	12	3.0	1.5	0.50	8020
Ethyl Benzene	1,200	100	50	180	10	5	62	3.0	1.5	0.50	8020
Xylenes	4,200	100	50	72	10	5	14	3.0	1.5	0.50	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

M. Golden, Lab Director

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Tank Protect Engineering

2821 Whipple Road

Union City, CA 94587-1233

Attn: Louis Travis III

Date: 7/9/98

Date Received: 7/1/98

Project: 267-062998

PO#: 1481

Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Water Sample Alla	• • • • • • • • • • • • • • • • • • • •						(T) (33)				
Sample ID	TMW-4			TMW-5			TMW-6				
Sample Depth											
Sample Date	6/29/98			6/29/98			6/29/98				
Sample Time	11:09			11:50			4:45				
Lab#				E12588			E12589				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Results in µg/Liter:											
Analysis Date	7/2/98			7/2/98			7/2/98				
TPH-Gas	ND	1.0	50	63,000	500	25000	ND	1.0	50	50	8015M
MTBE	ND	1.0	5	3,400	500	2500	ND	1.0	5	5	8020
Benzene	ND	1.0	0.50	5,700	500	250	ND	1.0	0.50	0.50	8020
Toluene	ND	1.0		410	500	250	ND	1.0	0.50	0.50	8020
Ethyl Benzene	ND	1.0	0.50	2,400	500	250	ND	1.0	0.50	0.50	8020
Xylenes	ND	1.0			500	250	ND	1.0	0.50	0.50	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

M. Golden, Lab Director

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4980706

Matrix: Water

Date Analyzed: 07/06/98 Quality Control Sample: Blank Spike

Units: ug/L

- CIMBA	<u> </u>										
PARAMETER	Method #	MB ug/L	SA ug/L	SR ug/L	SP ug/L	SP % R	SPD ug/L	SPD %R	RPD	QC RPD i	LIMITS %R
Benzene	8020	<0.50	80	ND	84	106	79	99	6.9	25 i	75-116
Toluene	8020	<0.50	80	ND	97	122	82	102	17.7	25	75-116
Ethyl Benzene	8020	<0.50	80	ND	89	111	85	106	4.4	25	76-116
Xylenes	8020	<0.50	240	י מא i	257	107	248	103	3.8	25 i	75-118
Gasoline	8015	<50.0	1000	ND	840	84	840	84	0.0	25	62-128

Note: LCS and LCSD results reported for the following Parameters:

All

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery

NC: Not Calculated

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4980702

Matrix: Water

Date Analyzed: 07/02/98

Quality Control Sample: Blank Spike

Units: ug/L

PARAMETER	Method #	MB ug/L	SA ug/L	SR ug/L	SP ug/L	SP % R	SPD ug/L	SPD %R	RPD	QC RPD	LIMITS %R
Benzene	8020 i	<0.50	80	ND	79	99	77	96	3.0	25	75-116
Toluene	8020	<0.50	80	ND	80	100	77	96	3.9	25	75-116
Ethyl Benzene	8020	<0.50	80	ND	82	102	78	97	4.8	25	<i>76-</i> 116
Xylenes	8020	<0.50	240	ND	243	101	232	97	4.4	25	75-118
Gasoline	8015	<50.0	1000	ND	1040	104	950	95	9.0	25	62-128

Note: LCS and LCSD results reported for the following Parameters:

All

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

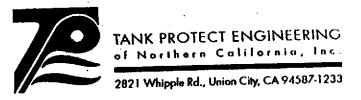
SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery

NC: Not Calculated



TURNAROUND: Normal

P.O. #: 1481

DATE:

(510) 429-8088 = (800) 523-8088 = Fox (510) 429-8089

PAGE 4 OF 4

CHAIN OF CUSTODY Orest world for Salestand PROJECT NO. (1) 267-06298 REMARKS SIMPLER NAME. ADDRESS AND TELEPHONE NUMBER TYPE OF LOUIS I ZING! CON-2821 WHIPPLE ROAD, UNION CITY, CA 94587 (415) 429-8088 TAINER WATER SAMPLING LOCATION ID NO. DATE TIME SOIL 2-40m MW-1 B12584 2:10 MW-I MN-2 E12585 10:02 Mw-2 MW-3 8/2586 4:12 MW-3 TMW 4 E12587 PWMT 11:04 TMW-5 B12588 11:50 Z-WMT |**₩** TMW-6 512589 4:45 TMW-6 Received by : (Signature) Date / Time Polinquiched by /: (Signature) Received by : (Signature) Date / Time Reliaminated by t Dato / Timo Romarks Received for Laboratory by: Date / Time Relinquished by : (Signature) [Signature] 7/1/98 3:40/