

Phone: (925) 283-6000

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September 8, 2003

Mr. Barney Chan Alameda Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502



Subject:

Quarterly Groundwater Monitoring Report 807 75th Street

807 75th Street Oakland, CA 94621 AEI Project No. 3190



Dear Mr. Chan:

Enclosed is the most recent quarterly monitoring report for the above referenced site.

Please call Peter McIntyre or myself at (925) 283-6000 if you have any questions.

Sincerely,

Jeff Rosenberg Staff Engineer September 8, 2003

Alameda County

- \$100 d i 2003

Environmental Health

GROUNDWATER MONITORING REPORT 14th Episode, 2003

807 75th Avenue Oakland, California

Project No. 3190

Prepared For

Mr. Allan Kanady Omega Termite 807 75th Avenue Oakland, CA 95621

Prepared By

AEI Consultants 2500 Camino Diablo Blvd., Suite 200 Walnut Creek, CA 94597 (925) 283-6000



Phone: (925) 283-6000

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September 8, 2003

Mr. Allan Kanady Omega Termite 807 75th Avenue Oakland, CA 95621

Subject:

Quarterly Groundwater Monitoring Report

14th Episode, 2003 807 75th Avenue Oakland, California Project No. 3190

Dear Kanady:

AEI Consultants (AEI) has prepared this report to document the results of the fourteenth episode of groundwater monitoring and sampling at the above referenced site (Figure 1: Site Location Map). This groundwater investigation has been performed in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA). The purpose of this activity is to monitor groundwater quality in the vicinity of previous locations of underground storage tanks (USTs) at the site. This report presents the findings of the fourteenth sampling episode of groundwater monitoring and sampling conducted on September 2, 2003.

Site Description and Background

The site is located in an industrial area of the City of Oakland, on the northern corner of the intersection of 75th Avenue and Snell Street, just east of San Leandro Street. The property is approximately 10,000 square feet in size and currently developed with two buildings, occupied by Omega.

On September 15, 1996, AEI removed three gasoline USTs from the subject property. The tanks consisted of one 8,000-gallon UST, one 1,000-gallon UST, and one 500-gallon UST. The former locations of the tanks are shown in Figure 2. A total of five soil samples and one groundwater sample collected during the tank removal activities revealed that a release had occurred from the tank system. Total petroleum hydrocarbons as gasoline (TPH-g), benzene, and methyl tertiary butyl ether (MTBE) were detected up to 4,300 mg/kg, 13 mg/kg, and 25 mg/kg, respectively in soil samples. The excavation was not backfilled. Soil removed from the excavation was stockpiled on the northern portion of the property. In 1999 soil samples collected from the stockpiled soil contained non-detectable to minor concentrations of TPH-g. Mr. Barney Chan of the ACHCSA approved the stockpiled soil for reuse in the excavation.

In October 1997, soil and groundwater samples were collected from six soil borings (BH-1 through BH-6). In June 1999, four groundwater monitoring wells (MW-1 through MW-4) were also installed by AEI.

Under the direction of ACHCSA, additional soil was removed from the excavation in March 2000. The excavation was extended to 29 by 48 feet in size and 8 feet deep at the east end of the excavation and 11.5 at the west end. During the excavation activities, an additional 500 gallon UST was discovered at the eastern end of the excavation. This tank was removed under the direction of Oakland Fire Services Agency (OFSA). A total of six additional soil samples were collected from the sidewalls and bottom of the excavation.

The resulting excavation was then backfilled with pea gravel to bridge the water table, with the remainder of the excavation being filled with the previously aerated soil and later with imported fill. The newly excavated soil was stockpiled on the northern portion of the property. A total of 7,400 gallons of hydrocarbon impacted groundwater were pumped from the excavation, treated on-site, and discharged under an East Bay Municipal Utility District permit to the sanitary sewer system.

Monitoring well locations are shown on Figure 2. Historical water table elevation data are presented in Appendix A, Table 1. Historical groundwater sample analytical data are presented in Table 2 of Appendix A.

Summary of Activities

AEI conducted a quarterly groundwater monitoring investigation on four monitoring wells (MW-1, MW-2, MW-3 and MW-4) and the one temporary extraction well (TW-5) on July 14, 2003. Well locations are shown in Figure 2. First, the depths to groundwater (from the top of the well casings) for each well were measured with an electric water level indicator. The wells were then purged using a battery powered submersible pump. Approximately three well volumes were removed from each well. Temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured and the turbidity was visually noted during the purging of the wells.

Once the groundwater parameters stabilized, and following recovery of water levels, water samples were collected from each well. Sample water was poured from polyethylene bailers into 40-milliliter (ml) Volatile Organic Analysis (VOA) vials and 1-liter amber bottles, which were subsequently capped so neither head space or air bubbles were visible within the vials. Samples were shipped on ice under proper chain of custody protocol to McCampbell Analytical, Inc. of Pacheco, California (Department of Health Services Certification #1644).

Groundwater samples from the five wells were analyzed for TPH-g (EPA Method 8015C), TPH as diesel (TPH-d) (EPA method 8015C), benzene, toluene, ethyl benzene, xylenes (BTEX), and MTBE (EPA Method 8021B).

Field Results

Hydrocarbon odor was detected in wells MW-1, MW-2, MW-3 and TW-5. Groundwater levels for this sampling episode ranged from -.16 to -.03 feet above mean sea level (amsl). These elevations are an average of .29 feet lower than the previous episode. Groundwater flow direction was estimated to be to the south south-east with a hydraulic gradient of 0.0017 ft/ft. The hydraulic gradient is an order of magnitude smaller than the previous episode of 0.016 ft/ft. The temporary extraction well, TW-5, is not included in calculating the groundwater direction flow or the hydraulic gradient due to variation in well construction.

Groundwater elevation data are summarized in Table 1 (Appendix A). The groundwater elevation contours and the groundwater flow direction are shown in Figure 3. Refer to Appendix B for the Groundwater Monitoring Well Field Sampling Forms.

Groundwater Quality

TPH-g decreased in concentration in well MW-2, (from 2,400 micrograms per liter [μ g/L] to 1,900 μ g/L) in MW-4, (from 850 μ g/L to 780 μ g/L) and in TW-5, (from 160 μ g/L to 100 μ g/L). TPH-d concentrations increased in all wells. Well TW-5 remains highest in heavier range hydrocarbons (TPH-d) and showed an increase in concentration from 2,300 μ g/L to 16,000 μ g/L. MTBE has not been detected above laboratory reporting limits in any of the wells sampled since the beginning of this investigation. Benzene concentrations increased in well MW-1, from 87 μ g/L to 420 μ g/L, and in MW-3 from 60 μ g/L to 130 μ g/L. Increases in benzene concentrations, although substantially lower than during similar time periods, are likely due to seasonal trending, as seen in Figure 4. In well TW-5, benzene levels decreased from 18 μ g/L to 1.2 μ g/L. In wells MW-2 and MW-4 benzene levels remained relatively constant.

A summary of groundwater analytical data is presented in Table 2 of Appendix A. Laboratory results and chain of custody documents are included in Appendix C.

Conclusions

Concentrations of TPH-g and Benzene have shown seasonal fluctuations in all wells as groundwater levels rise and fall. This variance can be seen on Figure 4.

During this monitoring period, concentrations of TPH-d in wells MW-1, MW-2, MW-3 and MW-4 were significantly lower than the concentrations of TPH-d in TW-5. This has been the case over the last two years of monitoring.

AEI submitted a site characterization workplan dated January 27, 2003, which addresses the agency's technical comments, and works toward an effective remedial action plan for the subject property.

Groundwater monitoring and sampling of the five wells will continue, with the next episode scheduled for October 2003.

References

- 1. Underground Storage Tank Removal Final Report, prepared by AEI October 10, 1996
- 2. Phase II Soil and Groundwater Investigation Report, prepared by AEI March 17, 1997
- 3. Workplan, prepared by AEI May 21, 1999
- 4. Soil Boring and Groundwater Monitoring Well Installation Report, prepared by AEI-September 16, 1999
- 5. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-July 28, 2000.
- 6. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-November 3, 2000.
- 7. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-February 7, 2001.
- 8. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-July 2, 2001.
- 9. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-February 20, 2002.
- 10. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-June 21, 2002.
- 11. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-October 14, 2002.
- 12. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-January 31, 2003.
- 13. Quarterly Groundwater Monitoring and Sampling Report, prepared by AEI-March 19, 2003.

Report Limitations and Signatures

This report presents a summary of work completed by AEI Consultants, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and construction field that existed at the time and location of the work.

Please contact Peter McIntyre or myself with any questions regarding the findings outlined in this report.

Sincerely,

AEI Consultants

Jeff Rosenberg

Staff Engineer

Technical Review By:

J.M. Sanger # 4450

Lorraine M. Sawyer, RG

Figures

Figure 1 Site Location Map

Figure 2 Site Plan – Hydrocarbon Concentrations

Figure 3 Water Table Contour Map Figure 4 Concentrations Graph

Appendix A

Table 1 Groundwater Elevations

Table 2 Groundwater Sample Analytical Results

Appendix B Groundwater Monitoring Well Field Sampling Forms

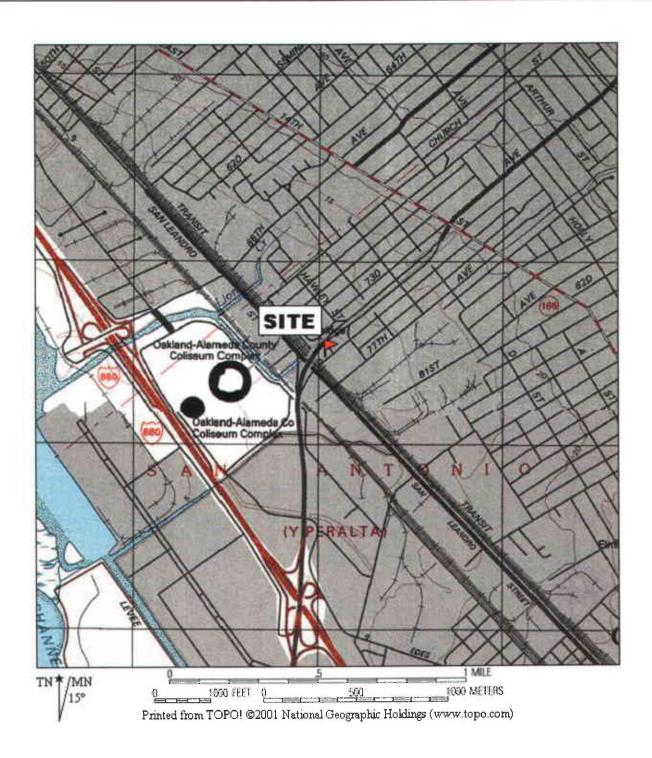
Appendix C Laboratory Reports With Chain of Custody Documentation

cc: Mr. Barney Chan

ACHCSA

1131 Harbor Bay Parkway, Suite 250

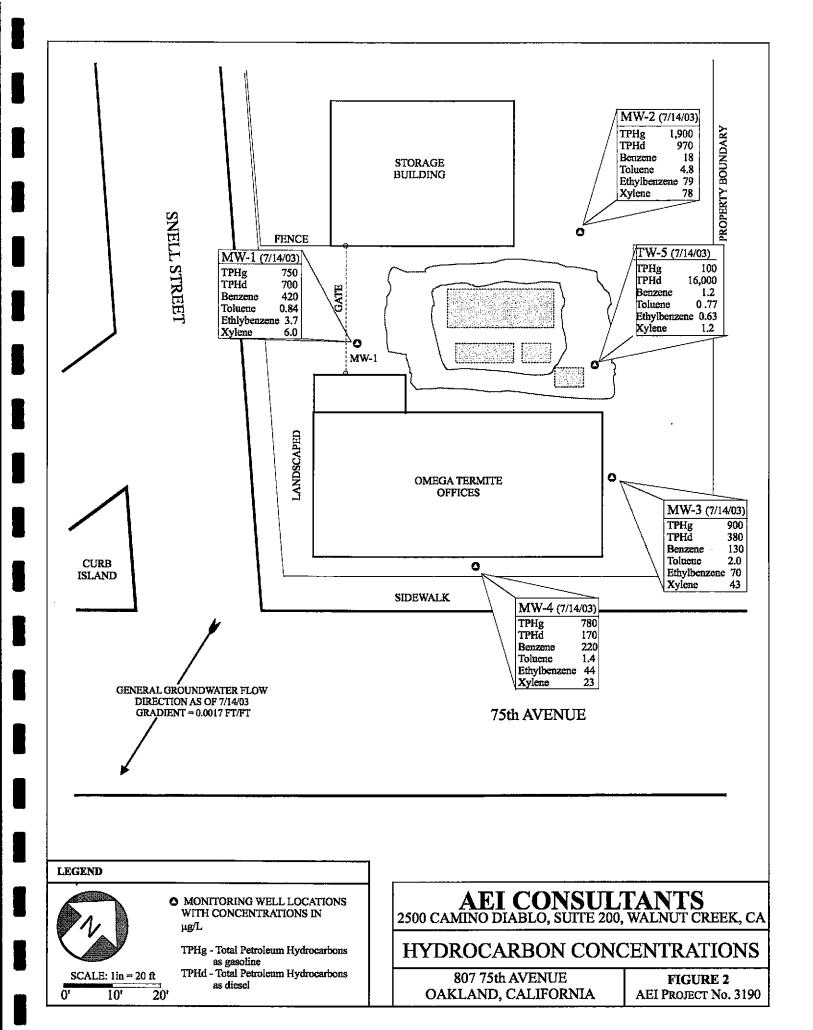
Alameda, CA 94502

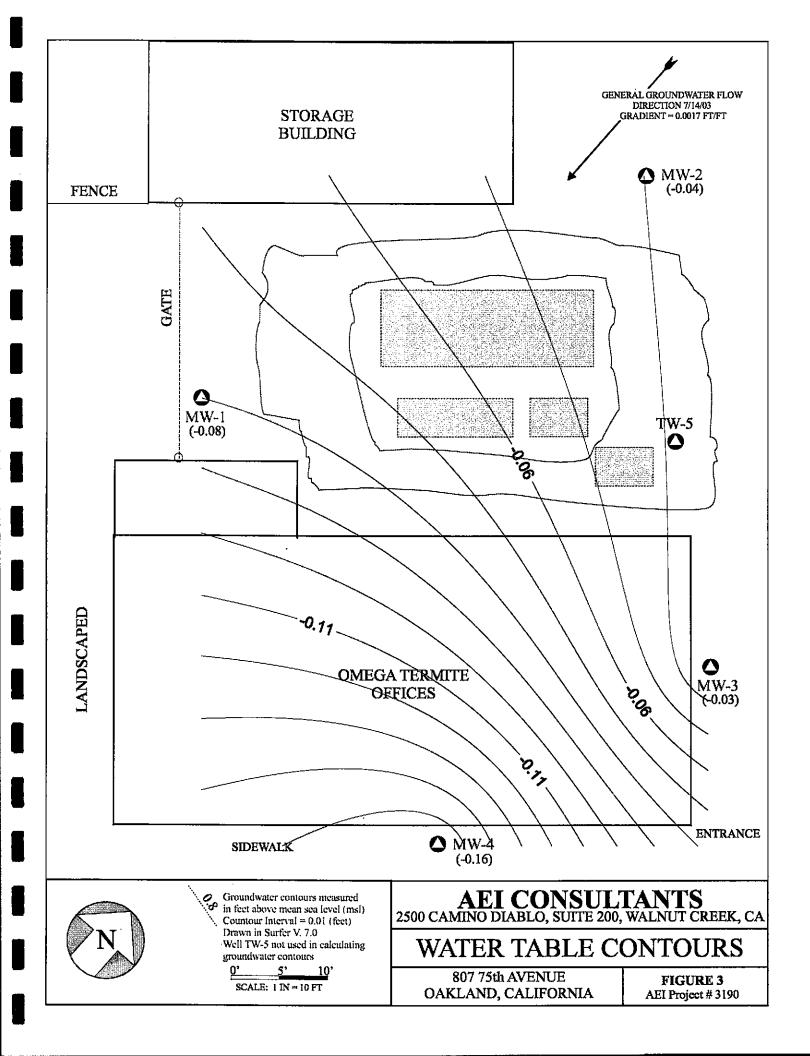


AEI CONSULTANTS 2500 CAMINO DIABLO, STE 200, WALNUT CREEK, CA

SITE LOCATION MAP

807 75th AVENUE OAKLAND, CALIFORNIA FIGURE 1 PROJECT NO. 3190





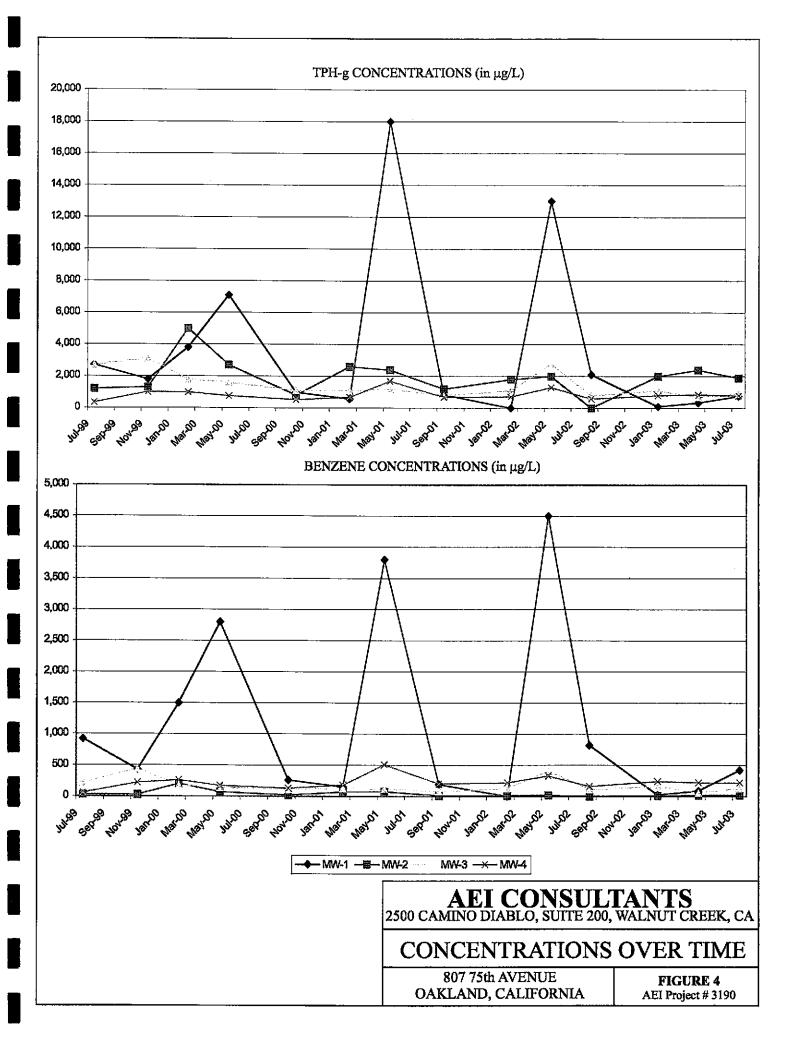


Table 1 **Groundwater Elevations**

Well ID	Date	Well	Depth	Groundwater
		Elevation (ft emsi)	to Water (ft)	Elevation (it amsl)
MW-1	07/30/99	5.00	5.82	-0.82
	11/09/99	5.00	5.70	-0.70
	02/23/00	5,00	2.84	2.16
	05/25/00	5.00	5.50	-0.50
	10/10/00	5.00	5.70	-0.70
	02/07/01	5.00	5.25	-0.25
	05/25/01	5.00	5.25	-0.25
	09/19/01	5.00	5.51	-0.51
	02/06/02	NS	NS	NS
	05/17/02	5.00	5.30	-0.30
	08/20/02	5.00	5.39	-0.39
				0.89
	01/10/03	5.00	4.11	
	04/14/03	5.00	4.85	0.15
	07/14/03	5.00	5.08	-0.08
MW-2	07/30/99	5.95	6.64	-0.69
	11/09/99	5.95	6.42	-0.47
	02/23/00	5.95	3.31	2.64
	05/25/00	5.95	6.34	-0.39
			6.52	-0.57
	10/10/00	5.95		-0.3 <i>1</i> 0.05
	02/07/01	5.95	5.90	
	05/25/01	5.95	6.08	-0.13
	09/19/01	5.95	6.53	-0.58
	02/06/02	5.95	5.72	0.23
	05/17/02	5.95	6.17	-0,22
	08/20/02	5.95	NS	NS
	01/10/03	5.95	5.12	0.83
	04/14/03	5.95	4.98	0.97
	07/14/03	5.95	5.99	-0.04
MW-3	07/30/99	4.66	5.35	-0.69
	11/09/99	4.66	5.11	-0.45
	02/23/00	4.66	2.37	2.29
	05/25/00	4.66	4.98	-0.32
	10/10/00	4.66	5.24	-0.58
	02/07/01	4.66	4.73	-0.07
	05/25/01	4.66	4.73	-0.07
	09/19/01	4.66	5.07	-0.41
	02/06/02	4.66	4.69	-0.03
	05/17/02	4.66	4.80	-0.14
	08/20/02	4.66	4.97	-0.31
	01/10/03	4.65	3.59	1.07
	04/14/03	4.66	5.40	-0.74
	07/14/03	4.66	4,69	-0.03
MW-4	· 07/30/99	4.59	. 5.45	-0.86
174 67-4	11/09/99	4.59	5.31	0.72
				1.87
	02/23/00	4.59	2.72	
	05/26/00	4.59	5.07	-0.48
	10/10/00	4.59	5.32	-0.73
	02/07/01	4.59	4.73	-0.14
	05/25/01	4.59	4.90	-0.31
	09/19/01	4.59	5.16	-0.57
	02/06/02	4.59	4,65	-0.06
	05/17/02	4.59	4,90	-0.31
	08/20/02	4.59	5.02	-0.43
	08/20/02	4.59 4.59	3.78	0.81
	04/14/03	4.39 4.39	3.78 4.11	0.48
	07/14/03	4.59 4.59	4.75	-0.16
	U//14/U3	4,39	4,/0	70.20
TW-5	09/19/01	118	5.59	pta .
- · · -	05/17/02	ns	6.56	102
	08/20/02	115	5.62	ma
	01/10/03	125	4.66	, ,141,
	04/14/03	125	5.30	na.
	THY 14013	123		int.
	07/14/03	115	5.84	1723 <u>.</u>

Depth to water measured from the top of well casing ft amsl = feet above mean sea level

ns - TW-5 Not surveyed na - not available

Episode	Date	Average Water Table Elevation (R amsl)	Water Table Elevation Change (ft)	Hydraulic Gradient Flow Direction (ft/ft)
ī	077/30/99	-0,77	•	
2	11/09/99	-0.59	0.18	0,0056 / SW
3	02/23/00	2.24	2.83	0.00878
4	05/26/00	-0.42	-2.66	0.003 / SW
5	10/10/00	-0.65	-0.22	0.00367S
6	02/07/01	-0.10	0.54	0.008/S
7	05/25/01	-0.19	-0.09	0.0067\$
8	09/19/01	-0.52	+0.33	0,004 / S
9	02/06/02	0.05	0.56	0.005 / SE
10	05/17/02	-0.24	-0.29	0.003/SW
11	08/20/02	-0.38	-0.13	0,002 / S
12	01/10/03	0.90	1.28	0.006 / E-NE
13	04/14/03	0.22	-0.69	0.016 / E-NE
14	07/14/03	-0.08	-0.29	.0017/S-SE

TW-5 not included in calculations

Table 2 **Groundwater Sample Analytical Results**

Sample	Sample	TPH-g	TPH-d	TOG	MTBE	Benzene	Toluene	Ethylhenzene	Xylenes
ID I	Collection	*****	*****			24.24.7		, , , , , , , , , , , , , ,	
	Date	pg/L	µg/L	mg/L	цg/L	µg/L	ha\r	μg∕L	μg/L
MW-1	07/30/99	2,700	. 1	.	ND<10	920	5.5	18	130
	11/09/99	1,800		.	ND<20	430	1.5	26	60
	02/23/00	3,800	.	.	ND<10	1,500	56	78	35
	05/26/00	7,100		. !	ND<10	2,800	70	220	81
	10/10/00	980		- [ND<5.0	260	2.9	10	11
	02/07/01	570	.		. ND<5.0	150	1.8	4.9	9.3
Ī	05/25/01	000,81	-		ND<100	3,800	350	550	620
i	09/19/01	840	- 1	-	ND<5.0	190	4.0	4.6	5.3
	02/06/02	•	- 1	-	•	•	•		•
	05/17/02	13,000	920	* .	ND<50/<5.0*	4,500	29	50	58
	08/20/02	2,100	740	ND<5.0	ND<15	820	4.5	6.4	9.6
	01/10/03	95	250	ND<5.0	ND<5.0	23	0.66	3.9 4.3	6.5 5.6
	04/14/03	340	310		ND<5.0	87 420	1.3 0.84	3.7	6.0
}	07/14/03	750	700	•	ND<10	420	45.00	3.,	0.0
MW-2	07/30/99	1,200			ND<10	29	2.5	51	100
	11/09/99	1,300	٠	-	ND<30	26	1.1	55	32
	02/23/00	5,000	•	-	ND<10	200	18	390	440
	05/26/00	2,700	•	.	ND<10	69	13	83	68
ļ	10/10/00	810	•	•	ND<10	17	4.7	42	46 100
	02/07/01	2,600	•	•	ND<10	70 74	15	80	100
	05/25/01	2,400	•	•	ND<5.0	75	16	85	100
	09/19/01	1,200	•	•	ND<5.0	10 14	8.5	46 58	55 59
	02/06/02	1,800 2,000	860	•	ND<30 ND<20/8.1*	14 19	11 1.1	0.75	59 88
	05/17/02 08/20/02	NS	NS	NS	NS NS	NS	NS	NS NS	NS
	01/10/03	2,000	910	ND<5.0	ND-c50	11	11	96	100
	04/14/03	2,400	800	14122.0	ND<10	16	10	100	73
	07/14/03	1,900	970		ND<15	18	4.8	79	78
						440	٠		220
MW-3	07/30/99	2,700	•	•	ND<10	220	15	130	230
	11/09/99	3,100	•	•	15	440	8.8 11	150 82	96 79
	02/23/00	1,800	•	-	ND<15 6.4	180 140	10	69	63
	05/26/00 10/10/00	1,600 1,100	•	•	0.4 ND<10	110	4.4	63	5l
	02/07/01	1,100	•		ND<10	130	5.1	68	65
	05/25/01	1,200			ND<6.0	120	5.4	69	64
	09/19/01	800		-	€.0	78	3.5	52	37
	02/06/02	1,100			ND<10	130	4.7	77	71
	05/17/02	2,800	810		ND-c50/2.0*	410	23	160	210
	08/20/02	780	270	ND<5.0	ND<10	110	2.8	63	41
	01/10/03	1,100	510	ND<5.0	ND<20	160	3.4	98	84
	04/14/03	690	230	-	ND<5.0	60	2.3	44	34
	07/14/03	900	380	•	ND<5.0	1.30	2.0	70	43
MW-4	07/30/99	340	_	_	ND<10	57	2.2	8,5	6.8
	11/09/99	1,000			ND<10	220	€0.5	17	7.1
	02/23/00	980			ND<5.0	260	7	33	27
	05/26/00	760			5.7	170	4.8	22	13
	10/10/00	520			ND<10	130	2.3	22	10
	02/07/01	680		•	ND<8.0	180	3.7	29	21
	05/25/01	1,700	•	•	ND<10	510	9.6	44	46
	09/19/01	680	• '	-	ND<10	200	2.6	33	12
	02/06/02	710	•	•	ND<15	220	2.8	40	21
	05/17/02	1,300	190		ND<5.0/3.3*	330	5.6	61	51
	08/20/02	580	120	ND<5.0	ND<5.0	160	1.7	34	13
	01/10/03	800	85	ND<5.0	ND<20	240	2.5	46	28
	04/14/03 07/14/03	850 780	120 170		ND<10 ND<20	220 220	2.7 1,4	47 44	26 23
				-	1			'	
TW-5	10/10/00	5,800	2,900	ND<250	ND<50	650	60	190	230
	02/07/01	720	650	450	NDe5.0	6.0	4.5	3.2	4.5
	05/25/01	370	420	ND	ND<5.0	13.0	4.1	1.6	1.3
	09/19/01	15,000	2,700,000	1,100,000	530	29	2.7	14	240
	02/06/02	280	55,000	18,000	ND-5.0	2.3	0.74	ND<0.5	0.70 ND<0.5
	05/17/02	480	41,000	ML7~6 U	ND-c5.0/c5.0*	1.6	1.1	0.8 1.1	0.54
	08/20/02	240	21,000	ND<5.0	ND-c5.0	8.0			
		NTD-40	1 700						
	01/10/03 4/14/2003	ND<50 160	1,300 2,300	ND<5.0	ND<5.0 ND<5.0	5.4 18	0.58 5.7	ND<0.5 5.9	1.10 16

ttg/L = micrograms per liter (parts per billion)

- not sampled

ND = not detected

*MTBE concentrations by analytical method \$260B

TPH-g = total petroleum hydrocarbons as dissel

TPH-d = total petroleum hydrocarbons as dissel

TOL = total oil & gresse

Well TW-5 is lited as TR-5 in lab data (4714/U3)

Please see Appendix B: Laboratory Analytical Data for further destilled lab information including reporting limits and dilution factors

Monitoring Well Number: MW-1

Project Name:	Omega Termite	Date of Sampling: 7/14/2003
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORIN	G WELL DA	TA			
Well Casing Diameter (2"/4"/6")		2			
Wellhead Condition	OK	▼			
Elevation of Top of Casing (feet above msl)		5.00	· '		
Depth of Well	20.00				
Depth to Water (from top of casing)	5.08				
Water Elevation (feet above msl)	-0.08				
Well Volumes Purged	3				
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	7.2				
Actual Volume Purged (gallons)	7.0				
Appearance of Purge Water	Dark, clear at 2 gallons.				
Free Product Present?	No	Thickness (ft):	NA		

mber of Samples/Container Size			2 - 40ml VOAs	, 1 L Amber			
Time	Vol Removed (gal)	Temperature (deg C)	pН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
···········	1	18.29	6.77	864	0.66	-66.7	
	3	18.88	6.79	853	0.58	-66.4	
	5	18.41	6.74	914	0.48	-66.1	
	7	18.00	6.70	965	0.33	-69.6	
							

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Hydrocarbon odor present.	 	•	

Monitoring Well Number:

MW-2

Project Name:	Omega Termite	Date of Sampling: 7/14/2003
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORIN	G WELL DAT			
Well Casing Diameter (2*/4*/6*)		2		
Wellhead Condition	ОК		▼	
Elevation of Top of Casing (feet above msl)	5.95			
Depth of Well	20.00			
Depth to Water (from top of casing)	5.99			
Water Elevation (feet above msl)	-0.04			
Well Volumes Purged		3		
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	6.7			
Actual Volume Purged (gallons)	7.0			
Appearance of Purge Water	Gray, clear at 1 gallon.			
Free Product Present?	No	Thickness (ft):	NA	

		GF	NOUNDW	ATER SAMPLE	S		
mber of Samples/Container Size			2 - 40mi VOAs	, 1 L Amber			
Time	Vol Removed (gal)	Temperature (deg C)	рH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	1	19.69	6.75	1188	0.97	-67.3	
	3	20.28	6.72	1161	0.53	-60.1	
	5	20.15	6.70	1168	0.45	-59.1	
	7	19.74	6.69	1224	0.46	-68.9	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Strong Hydrocarbon odor present.

Monitoring Well Number: MW-3

Project Name:	Omega Termite	Date of Sampling: 7/14/2003
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORIN	G WELL DAT				
Well Casing Diameter (2"/4"/6")		2			
Wellhead Condition	ОК		-		
Elevation of Top of Casing (feet above msl)		4.66	•		
Depth of Well		20.00			
Depth to Water (from top of casing)	4.69				
Water Elevation (feet above msl)	-0.03				
Well Volumes Purged	3				
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		7.3			
Actual Volume Purged (gallons)	8.0				
Appearance of Purge Water	Slightly turbid				
Free Product Present?	No	Thickness (ft):	NA		

ber of San	nples/Container S	Size		2 - 40mi VOAs	, 1 L Amber		
Time	Vol Removed (gal)	Temperature (deg C)	Нq	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	18.96	6.71	1580	0.71	-39.3	
	4	20.01	6.69	1595	0.85	88.1	
	6	19.33	6.66	1640	0.49	23.2	
	8	18.80	6.67	1640	0.26	-21.9	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Slight Hydrocarbon odor present.

Monitoring Well Number:

MW-4

Project Name:	Omega Termite	Date of Sampling: 7/14/2003
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORIN	G WELL DA	TA	
Well Casing Diameter (2"/4"/6")		2	
Wellhead Condition	OK		~
Elevation of Top of Casing (feet above msl)		4.59	
Depth of Well	20.00		
Depth to Water (from top of casing)	4.75		
Water Elevation (feet above msl)	-0.16		
Well Volumes Purged	3		
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	7.3		
Actual Volume Purged (gallons)	8.0		
Appearance of Purge Water		Slightly turbid	
Free Product Present?	No	Thickness (ft):	NA

	er juli i	. ■GF	HOUNDW	ATER SAMPLI	S		
Number of San	nples/Container S		2 - 40ml VOAs, 1 L Amber				
Time	Vol Removed (gal)	Temperature (deg C)	рΗ	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	18.76	6.72	1642	0.85	437.9	
	4	19.98	6.71	1574	1.80	503.8	
	6	19.47	6.67	1689	1.02	500.3	
	8	18.90	6.68	1639	0.47	472.3	
L_		I. I		!			

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

None.

Monitoring Well Number:

TW-5

Project Name:	Omega Termite	Date of Sampling: 7/14/2003
Job Number:	3190	Name of Sampler: AN
Project Address:	807 75th Avenue Oakland	

MONITORIN	G WELL D	MA apprendence a construction describe	
Well Casing Diameter (2"/4"/6")		4	
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)		not surveyed	
Depth of Well	10.00		
Depth to Water (from top of casing)	5.84		
Water Elevation (feet above msl)	na		
Well Volumes Purged	3		
Caculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)			
Actual Volume Purged (gallons)	9.0		
Appearance of Purge Water		Dark Gray, clear at 2.5 gallons	3.
Free Product Present?	No	Thickness (ft):	NA

umber of Samples/Container Size			2 - 40ml VOAs, 1 L Amber				
Time	Vol Removed (gal)	Temperature (deg C)	pН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	1	21.89	6.77	1129	0.30	-67.6	
	3	21.86	6.75	1124	0.26	-69.6	
	5	21.86	6.75	1120	0.28	-71.3	
	7	21.87	6.74	1118	0.24	-73.3	
	9	21.89	6.74	1118	0.17	-75.8	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Strong Hydrocarbon odor present.		
		·

4	McCampbell Analytical Inc.
1	1 ,

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #3190; OMEGA	Date Sampled: 07/14/03
2500 Camino Diablo, Ste. #200		Date Received: 07/14/03
Walnut Creek, CA 94597	Client Contact: Brandi Kiel-Reese	Date Reported: 07/21/03
Wallet Clock, Oli 74377	Client P.O.:	Date Completed: 07/21/03

WorkOrder: 0307214

July 21, 2003

Dear Brandi:

Enclosed are:

- 1). the results of 5 analyzed samples from your #3190; OMEGA project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
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All Environmental, Inc.	Client Project ID: #3190; OMEGA	Date Sampled: 07/14/03
2500 Camino Diablo, Ste. #200		Date Received: 07/14/03
Walnut Creek, CA 94597	Client Contact: Brandi Kiel-Reese	Date Extracted: 07/16/03-07/18/03
Wallat Clock, C21 94397	Client P.O.:	Date Analyzed: 07/16/03-07/18/03

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction	method: SW5030B			Analytical	methods: SW8021	B/8015Cm		Work (Work Order: 03072				
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS			
001A	MW-1	w	750,a	ND<10	420	0.84	3.7	6.0	1	108			
002A	MW-2	w	1900,a	ND<15	18	4.8	79	78	i	118			
003A	MW-3	w	900,a	ND	130	2.0	70	43	i	103			
004A	MW-4	w	780,a	ND<20	220	1.4	44	23	2	111			
005A	TW-5	w	100,a	ND	1.2	0.77	0.63	1.2	1	99.1			
		ļ.,											
	Limit for DF =1; not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/L			
above th	ne reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/Kg			

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas), m) no recognizable pattern.

McCampbell	Analytical	Inc.
	McCampbell	McCampbell Analytical

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Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #3190; OMEGA	Date Sampled: 07/14/03
2500 Camino Diablo, Ste. #200		Date Received: 07/14/03
TV-1 C CA 04507	Client Contact: Brandi Kiel-Reese	Date Extracted: 07/14/03
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 07/15/03-07/16/03

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: 'SW		_ ,	extractable Hydrocarbons as Diesel* rical methods: SW8015C	Work Order:	0307214
Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0307214-001B	MW-1	w	700,a	1	102
0307214-002B	MW-2	w	970,d	1	103
0307214-003B	MW-3	w	380,d	1	102
0307214-004B	MW-4	w	170,d	1	102
0307214-005B	TW-5	w	16,000,a/m	1	101
			·		
	···				•
			·		
	imit for DF =1; ot detected at or	W	50		z/L
	reporting limit	S	NA	N	A

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

Angela

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0307214

EPA Method: S\	W8021B/8015Cm E	Extraction:	SW5030E	3	BatchID: 7803 Spiked Sample ID: 0307218-0										
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High					
TPH(btex) [£]	ND	60	98.5	98.5	0	99.8	98.1	1.68	70	130					
MTBE	ND	10	113	109	3.36	101	101	0	70	130					
Benzene	ND	10	98.5	96.4	2.14	100	99.9	0.481	70	130					
Toluene	ND	10	99.3	97.9	1.47	101	101	0	70	130					
Ethylbenzene	ND	10	100	98.9	1.57	103	102	0.685	70	130					
Xylenes	ND	30	100	100	0	103	103	0	70	130					
%SS:	106	100	102	102	0	103	103	0	70	130					

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS – MSD) / (MS + MSD) * 2.

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0307214

EPA Method: SW8015C	E	Extraction:	SW35100	2	BatchID:	7800	S	Spiked Sample ID: N/A					
	Sample	Spiked	MS*	M\$D*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)			
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High			
TPH(d)	N/A	7500	N/A	N/A	N/A	101	89.8	12.1	70	130			
%SS:	N/A	100	N/A	N/A	N/A	116	118	1.77	70	130			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD ≈ Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / (MS + MSD) * 2.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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McCampbell Analytical Inc.



110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0307214

Client:

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 TEL:

(925) 283-6000

FAX:

(925) 283-6121

ProjectNo: PO: #3190; OMEGA

Date Received:

7/14/03

Date Printed:

7/14/03

					Requested Tests									
Sample ID	ClientSamplD	Matrix	Collection Date	Hold	SW8015C	V8021B/8015C								
0307214-001	MVV-1	10/2122	7/44/02 44-00-00 444				· · · · · · · · · · · · · · · · · · ·							
		Water	7/14/03 11:00:00 AM		В	A								
0307214-002	MW-2	Water	7/14/03 11:00:00 AM		В	Α								
0307214-003	MW-3	Water	7/14/03 11:00:00 AM		В	Α								
307214-004	MW-4	Water	7/14/03 11:00:00 AM		В	A								
307214-005	TW-5	Water	7/14/03 11:00:00 AM		В	Α								

Prepared by: Michelle Miller

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.