QUARTERLY GROUNDWATER MONITORING AND SAMPLING FOR PLAZA CAR WASH PROPERTY LOCATED AT 400 SAN PABLO AVENUE ALBANY, CALIFORNIA JANUARY 26, 1994

PREPARED FOR:

MR. MURRAY STEVENS

KAMUR INDUSTRIES, INC.

2351 SHORELINE DRIVE

ALAMEDA, CALIFORNIA 94501

BY:

SOIL TECH ENGINEERING, INC.

298 BROKAW ROAD

SANTA CLARA, CALIFORNIA 95050

SOIL TECH ENGINEERING, INC.

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SOIL TECH ENGINEERING, INC.

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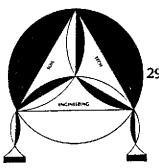
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ARGON MOBILE LABS ANALYTICAL REPORT AND CHAIN-OF-CUSTODY

SOIL TECH ENGINEERING, INC.





Soil, Foundation and Geological Engineers

298 BROKAW ROAD, SANTA CLARA, CA 95050 **(408)** 496-0265 OR (408) 496-0266

January 26, 1994

File No. 8-90-421-SI

Mr. Murray Stevens Kamur Industries, Inc. 2351 Shoreline Drive Alameda, California 94501

SUBJECT: QUARTERLY GROUNDWATER MONITORING AND

SAMPLING FOR PLAZA CAR WASH PROPERTY Located at 400 San Pablo Avenue, in

Albany, California

Dear Mr. Stevens:

This report presents the results of quarterly groundwater monitoring and sampling conducted by Soil Tech Engineering, Inc. (STE), on January 7, 1994, at the subject site (Figure 1).

### BACKGROUND:

Currently there are four monitoring wells (MW-2, MW-3, STMW-1 and STMW-2) located on-site, and two off-site wells OTMW-5 and OTMW-6 (see Figure 2). Wells STMW-1 and STMW-2 were installed by STE, and on-site wells MW-2 & MW-3 and off-site wells OTMW-5 & OTMW-6 were installed by other consultants. This quarterly well monitoring and sampling was conducted in accordance with STE's recommendations made in the report entitled "Report of Supple-

mental Subsurface Investigations", dated May 14, 1991. During this quarter's reporting period, the following field activities were performed:

- Monitored the depth-to-static groundwater for all on-site wells and off-site well.
- Purged all on-site monitoring wells including well OTMW-5 prior to sampling.
- Submitted water samples to a State-Certified laboratory to be analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and for aromatic hydrocarbons: Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).
- Reviewed results and prepared a report of the investigation.

### GROUNDWATER MONITORING:

On January 7, 1994, STE staff monitored the four on-site wells and one off-site well to measure water depth and check for the presence of free floating petroleum product (FFP) and/or odor. During monitoring of the wells, floating product and strong petroleum odors were noted in the purged water in wells STMW-1, STMW-2 and MW-3. After purging of the wells, no floating product was observed in any of the wells. Table 1 summarizes the depth to the groundwater and observations made. The static shallow groundwater levels ranged from 5.52 to 7.67 feet below ground surface during the recent quarterly sampling event.

### GROUNDWATER SAMPLING:

Following groundwater monitoring, the wells were purged at least four well volumes and sampled in accordance with STE's Standard Operating Procedures (see Appendix "B"), which follows State and local guidelines for sampling and monitoring wells. The samples were submitted to a California State-Certified laboratory for analysis, accompanied by chain-of-custody. The samples were analyzed for TPHg and for BTEX per modified EPA Methods 5030/8025 and 602.

### GROUNDWATER FLOW:

The water elevation data were used to determine groundwater direction. Table 1 summarizes the groundwater elevations. The local groundwater flow direction was in east to southeasterly direction as of January 7, 1994 (Figure 2).

### ANALYTICAL RESULTS:

The four on-site wells and one off-site well OTMW-5 continued to show the presence of low levels of Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX). TPHg ranged from 0.24 milligrams per liter (mg/L) in well MW-2 to a maximum of 120 mg/L in well MW-3.

The results of laboratory are tabulated in Table 2. The chain-of-custody records and certified analytical report are included in Appendix "C".

### **DISCUSSION:**

A comparison of the recent analytical results with the October 11, 1993 results showed a decrease in TPHg concentrations in wells STMW-1 (from 51 to 29 mg/L); STMW-2 (from 62 to 22 mg/L); MW-2 (from 0.41 to 0.24 mg/L); and MW-3 (from 180 to 120 mg/L). TPHg concentrations increased in wells OTMW-5 (from non-detectable to 1.5 mg/L) only.

Benzene concentrations decreased substantially in this quarter in wells STMW-1, STMW-2, MW-2 and MW-3, and increased in well OTMW-5 (from to non-detected to 0.2 mg/L). Toluene levels showed an increased in wells MW-2 and OTMW-5, but decreased in wells STMW-1 (from 2.4 to 1.6 mg/L), STMW-2 (from 3.9 to 1.0 mg/L) and MW-3 (from 8.8 to 7.8 mg/L). Ethylbenzene levels showed an increased in well OTMW-5, and decreased in wells STMW-1 (from 0.53 to 0.45 mg/L); STMW-2 (from 0.67 to 0.28 mg/L); MW-2 (from 0.0045 mg/L to non-detectable) and MW-3 (from 0.32 to 0.23 mg/L). Total Xylenes showed a slight increased in wells MW-2 and OTMW-5, where as wells STMW-1, STMW-2 and MW-3 showed a moderate decrease.

### RECOMMENDATION:

We recommend continuing quarterly monitoring of on-site and off-site wells until interim groundwater treatment is initiated. This quarterly report should be submitted to Alameda County Health Department (ACHD) and the Regional Water Quality Control Board (RWQCB).

### LIMITATIONS:

This report and the associated work have been provided in accordance with the general principles and practices currently employed in the environmental consulting profession. The contents of this report reflect the conditions of the site at this particular time. The findings of this report are based on:

- 1) The observations of field personnel.
- The results of laboratory analyses performed by a statecertified laboratory.

It is possible that variations in the soil and groundwater could exist beyond the points explored in this investigation. Also, changes in groundwater conditions of a property can occur with the passage of time due to variations in rainfall, temperature, regional water usage and other natural processes or the works of man on this property or adjacent properties.

The services that STE provided have been in accordance with generally accepted environmental professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed.

Per your request, this report will be submitted to ACEHD and RWQCB.

If you have any questions or require additional information, please feel free to contact our office at your convenience.

Sincerely,

SOIL TECH ENGINEERING, INC.

NOORI AMELI

PROJECT ENGINEER

LAWRENCE KOO, P. E.

C. E. #34928

FRANK HAMEDI-FARD GENERAL MANAGER

。1996年,1997年,1996年,1996年,1996年,1997年,1997年,1998年,1998年,1997年,1998年,1998年1997年,1998年

TABLE 1
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to- Water	Groundwater Elevation	FFP Thickness	Odor
3/11/91	STMW-1 (100.62)	5.29	95.33	None	None
	STMW-2 (100.63)	5.25	95.38	None	Mild
	MW-2 (99.39)	4.92	95.07	None	Mild
	MW-3 (100.09)	4.67	95.42	Trace	Moderate
	OTMW-5 (100.87)	5.02	95.85	None	Mild
7/03/91	STMW-1 (100.62)	5.83	94.79	None	Mild
	STMW-2 (100.63)	4.75	95.88	None	Mild
	MW-2 (99.39)	5.83	93.53	None	Mild
:	MW-3 (100.09)	7.75	94.55	Light Sheen	Strong
	OTMW-5 (100.87)	5.65	95.12	None	Mild

Date	Well No./ Elevation	Depth-to- Water	Groundwater Elevation	FFP Thickness	Odor
11/04/91	STMW-1 (100.62)	5.83	94.79	None	Mild
	STMW-2 (100.63)	5.92	94.71	None	Mild
	MW-2 (99.39)	4.79	94.57	None	Mild
	MW-3 (100.09)	5.67	94.42	Trace	Strong
	OTMW-5 (100.87)	5.77	95.10	None	Mild
1/20/92	STMW-1 (100.62)	5.79	94.84	Light Sheen	Mild
	STMW-2 (100.63)	5.88	94.75	None	Mild
	MW-2 (99.39)	4.60	94.76	None	Mild
	MW-3 (100.09)	5.54	94.55	Light Sheen	Strong
	OTMW-5 (100.87)	5.58	95.29	None	Mild

Date	Well No./ Elevation	Depth-to- Water	Groundwater Elevation	FFP Thickness	Odor
5/07/92	STMW-1 (100.62)	5.80	94.82	None	Mild
	STMW-2 (100.63)	5.70	94.92	None	Mild
	MW-2 (99.39)	4.42	94.94	None	Mild
	MW-3 (100.09)	5.18	94.91	Rainbow Sheen	Strong
	OTMW-5 (100.87)	5.43	95.44	None	Mild
8/17/92	STMW-1 (100.62)	5.77	94.85	None	Mild
	STMW-2 (100.63)	5.71	94.92	None	None
·	MW-2 (99.39)	4.43	94.96	None	Mild
	MW-3 (100.09)	5.24	94.85	Rainbow Sheen	Mild
	OTMW-5 (100.87)	5.45	95.42	None	None
	OTMW-6	4.88	NA	None	None

Date	Well No./ Elevation	Depth-to- Water	Groundwater Elevation	FFP Thickness	Odor
12/10/92	STMW-1 (100.62)	6.61	94.01	Light Sheen	Mild
	STMW-2 (100.63)	6.39	94.24	Light Sheen	Mild
	MW-2 (99.39)	4.94	94.45	None	Mild
	MW-3 (100.09)	4.42	95.67	Light Sheen	Strong
	OTMW-5 (100.87)	7.30	93.57	None	Mild
3/18/93	STMW-1 (100.62)	6.68	93.94	Light Sheen	Mild
	STMW-2 (100.63)	6.50	94.13	Light Sheen	Mild
	MW-2 (99.39)	5.11	94.28	None	Light Sewage
	MW-3 (100.09)	5.39	94.70	Thick Sheen	Strong
	OTMW-5 (100.87)	7.11	93.76	None	Light Sewage

Date	Well No./ Elevation	Depth-to- Water	Groundwater Elevation	FFP Thickness	Odor
7/13/93	STMW-1 (100.62)	7.13	93.49	Light Rain- bow Sheen	Strong Petroleum
	STMW-2 (100.63)	6.95	93.68	None	Septic
	MW-2 (99.39)	5.53	93.86	Rainbow Sheen	Light Petroleum
	MW-3 (100.09)	6.07	94.02	Light Rain- bow Sheen	Strong Petroleum
	OTMW-5 (100.87)	7.45	93.42	None	None
10/11/93	STMW-1 (100.62)	7.26	93.36	None Measurable	Strong Petroleum
	STMW-2 (100.63)	7.09	93.54	None Measurable	Strong Petroleum
	MW-2 (99.39)	5.64	93.75	None	None
	MW-3 (100.09)	6.34	93.75	None Measurable	Strong Petroleum
	OTMW-5 (100.87)	7.65	93.22	None	None

Date	Well No./ Elevation	Depth-to- Water	Groundwater Elevation	FFP Thickness	Odor
1/07/94	STMW-1 (100.62)	7.15	93.47	None Measurable	Strong Petroleum
	STMW-2 (100.63)	6.93	93.70	Rainbow Sheen	Mild Petroleum
	MW-2 (99.39)	5.52	93.87	None	None
	MW-3 (100.09)	6.34	93.75	None Measurable	Strong Petroleum
	OTMW-5 (100.87)	7.67	93.20	None	None

FFP - Free Floating Product NA - Not Applicable

## TABLE 2 WATER ANALYTICAL RESULTS IN MILLIGRAMS PER LITER (mg/L)

Date	Well No.	трнд	В	Т	E	x
3/13/91	STMW-1	0.85	0.1	0.007	ND	0.15
· · · · · · · · · · · · · · · · · · ·	STMW-2	0.17	0.001	0.0017	ND	0.028
	MW-2	25	2.6	4.4	ND	5.8
	MW-3	47	9.1	9.9	0.27	8.11
	OTMW-5	0.12	0.046	0.012	0.001	0.004
7/03/91	STMW-1	5.1	1.8	0.5	0.095	0.56
	STMW-2	1.8	0.64	0.048	0.044	0.094
	MW-2	21	2.8	3.2	ND	4.3
	MW-3	140	12	4.5	1.2	4.0
	OTMW-5	0.81	0.32	0.043	0.016	0.043
						·
11/04/91	STMW-1	2.05	0.76	0.054	ND	0.056
	STMW-2	2.14	1.00	0.057	0.003	0.019
	MW-2	3.58	1.7	0.119	0.009	0.056
	MW-3	102.7	38.87	19.1	5.8	46
	OTMW-5	0.97	0.1	0.019	0.005	0.013

# TABLE 2 CONT'D WATER ANALYTICAL RESULTS IN MILLIGRAMS PER LITER (mg/L)

Date	Well No.	TPHg	В	T	B	x
1/20/92	STMW-1	4.6	0.59	0.036	ND	0.19
	STMW-2	14	0.12	0.0006	0.0006	0.08
· 	MW-2	0.38	0.38	0.0013	ND	0.034
	MW-3	510	27	27	5.8	46
	OTMW-5	0.09	0.0007	0.0007	ND	0.011
5/07/92	STMW-1	4.4	0.066	0.053	0.004	0.16
	STMW-2	1.7	0.032	0.017	0.0086	0.048
	MW-2	10	0.062	0.032	0.044	0.16
	MW-3	43	0.25	0.23	0.43	1.1
	OTMW-5	0.18	0.027	0.014	0.0082	0.035
8/17/92	STMW-1	2.7	0.031	0.018	0.019	0.067
,	STMW-2	16	0.18	0.22	0.21	0.62
	MW-2	6.0	0.048	0.027	0.065	0.18
	MW-3	140	2.5	2.4	1.7	5.5
	OTMW-5	0.087	0.012	0.0098	0.004	0.042
	OTMW-6	ND	ND	ND	ND	ND

## TABLE 2 CONT'D WATER ANALYTICAL RESULTS IN MILLIGRAM PER LITER (mg/L)

Date	Well No.	TPHg	В	T	E	x
12/10/92	STMW-1	35	0.054	0.079	0.083	0.22
	STMW-2	44	0.084	0.096	0.12	0.35
	MW-2	7.2	0.015	0.023	0.032	0.082
	MW-3	94	0.4	0.41	0.43	1.1
	OTMW-5	0.54	0.0047	0.0045	0.0064	0.019
3/18/93	STMW-1	19	0.049	0.052	0.055	0.18
	STMW-2	9.2	0.022	0.031	0.04	0.11
-	MW-2	1.4	0.0083	0.011	0.013	0.048
	MW-3	51	0.092	0.13	0.16	0.59
	OTMW-5	0.57	0.006	0.0076	0.011	0.029
7/13/93	STMW-1	17	0.034	0.043	0.048	0.17
	STMW-2	9.3	0.018	0.024	0.026	0.089
	MW-2	2.4	0.0047	0.0062	0.0068	0.025
	MW-3	80	0.16	0.21	0.23	0.82
	OTMW-5	3.5	0.0068	0.00086	0.0095	0.036

### TABLE 2 CONT'D WATER ANALYTICAL RESULTS

MILLIGRAM PER LITER (mg/L)

Date	Well No.	TPHg	В	T	E	x
10/11/93	STMW-1	51	2.1	2.4	0.53	2.6
	STMW-2	62	2.8	3.9	0.67	4.4
	MW-2	0.41	0.043	0.0026	0.0045	0.012
	MW-3	180	14.0	8.8	0.32	9.4
	OTMW-5	ND	ND	ND	ND	ND
1/07/94	STMW-1	29	1.5	1.6	0.45	2.5
	STMW-2	22	1.1	1.0	0.28	1.8
	MW-2	0.24	0.025	0.0031	ND	0.02
	MW-3	120	9.5	4.6	0.23	7.8
	otmw-5	1.5	0.2	0.098	0.005	0.057
	SDWS	NL	0.001	0.100*	0.68	1.75

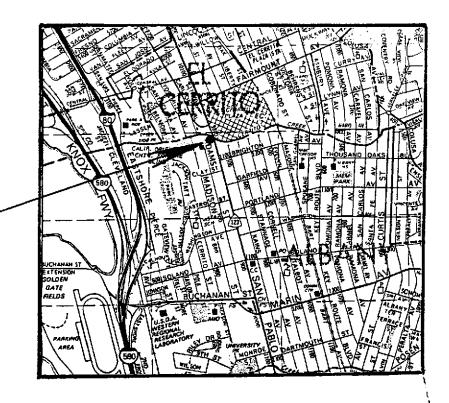
TPHg - Total Petroleum Hydrocarbons as gasoline

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

ND - Not Detected (Below Laboratory Detection Limit)

NL - No MCL Levels

\* - Action Level not Enforceable-Health Based Advisory Levels

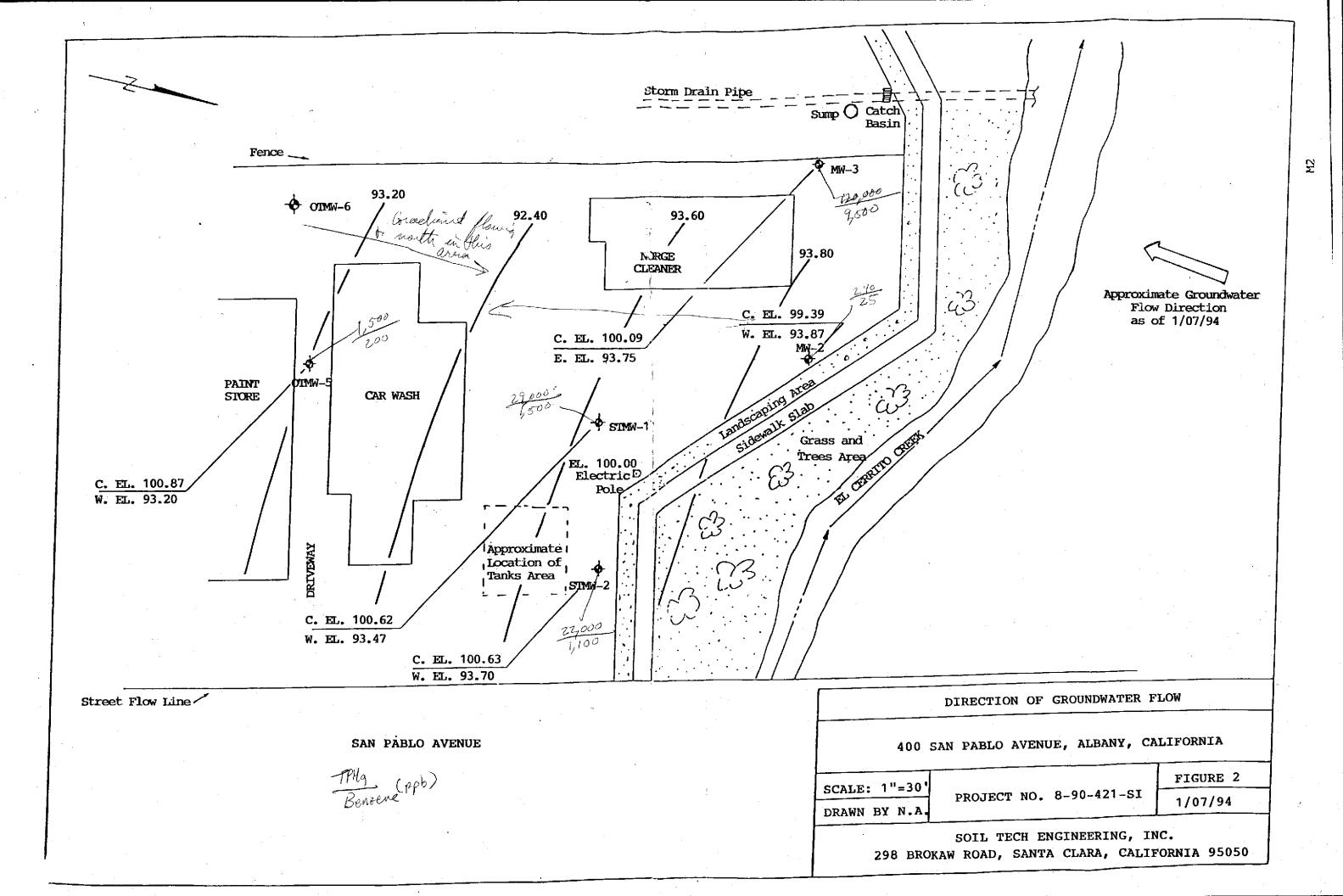




Thomas Brothers Map 1993 Edition San Francisco, Alameda, and Contra Costa Counties

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Site /



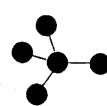
### GROUNDWATER SAMPLING

Prior to collection of groundwater samples, all of the sampling equipment (i.e. bailer, cables, bladder pump, discharge lines and etc...) was cleaned by pumping TSP water solution followed by distilled water.

Prior to purging, the well "Water Sampling Field Survey Forms" were filled out (depth to water and total depth of water column were measured and recorded). The well was then bailed or pumped to remove four to ten well volumes or until the discharged water temperature, conductivity and pH stabilized. "Stabilized" is defined as three consecutive readings within 15% of one another.

The groundwater sample was collected when the water level in the well recovered to 80% of its static level.

Forty milliliter (ml.), glass volatile organic analysis (VOA) vials with Teflon septa were used as sample containers. The groundwater sample was decanted into each VOA vial in such a manner that there was a meniscus at the top. The cap was quickly placed over the top of the vial and securely tightened. The VOA vial was then inverted and tapped to see if air bubbles were present. If none were present, the sample was labeled and refrigerated for delivery under chain-of-custody to the laboratory. The label information would include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.



3008 McKittrick Ct., Suite N • Ceres, CA 95307 • (209) 537-7836

SOIL TECH ENGINEERING, INC.

298 Brokaw Rd

Santa Clara, CA 95050

Date Sampled: 01/07/94 Date Received: 01/12/94

Date Reported: 01/14/94

Project ID: 8-90-421-SI

Sample ID: STMW-1

Lab Number: T401061

Matrix: Water

### TPH-gas/BTXE

ANALYTE	Detection I ppb	imit	Sample Results ppb	
Total Petroleum Hydrocarbons as Gasoline	2,500		29,000	
Benzene	25		1,500	
Toluene	25		1,600	
Xylenes	25		2,500	
Ethylbenzene	25		450	

QA/QC: Blank is none detected.

13.3% Duplicate Deviation

109% Matrix Spike Recovery (T401022)

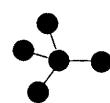
Note: Analysis was performed using EPA methods 5030/8015/602

Higher detection limits are due to dilution factors

ppb = ug/L

ARGON MOBILE LABS

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SOIL TECH ENGINEERING, INC.

298 Brokaw Rd

Santa Clara, CA 95050

Date Sampled: 01/07/94
Date Received: 01/12/94
Date Reported: 01/14/94

Project ID: 8-90-421-SI

Sample ID: STMW-2

Lab Number: T401062

Matrix: Water

### TPH-gas/BTXE

ANALYTE	Detection Limit ppb	Sample Results ppb				
Total Petroleum Hydrocarbons as Gasoline	2,500	22,000				
Benzene	25	1,100				
Toluene	25	1,000				
Xylenes	25	1,800				
Ethylbenzene	25	280				

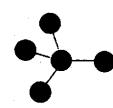
QA/QC: 5.9% Duplicate Deviation

Note: Analysis was performed using EPA methods 5030/8015/602 Higher detection limits are due to dilution factors

ppb = ug/L

ARGON MOBILE LABS

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SOIL TECH ENGINEERING, INC.

298 Brokaw Rd

Santa Clara, CA 95050

Date Sampled: 01/07/94 Date Received: 01/12/94 Date Reported: 01/14/94

Project ID: 8-90-421-SI

Sample ID: MW-2

Lab Number: T401063

Matrix: Water

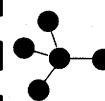
### TPH-gas/BTXE

-	·	· · · · · · · · · · · · · · · · · · ·						
ANALYTE	Detection ppb	Limit	Samp.	le Results ppb				
Total Petroleum Hydrocarbons as Gasoline	50			240				
Benzene	0.5			25				
Toluene	0.5			3.1				
Xylenes Ethylbenzene	0.5 0.5			20 <0.5				

Note: Analysis was performed using EPA methods 5030/8015/602

ppb = ug/L

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SOIL TECH ENGINEERING, INC.

298 Brokaw Rd

Santa Clara, CA 95050

Date Sampled: 01/07/94
Date Received: 01/12/94

Date Reported: 01/14/94

Project ID: 8-90-421-SI

Sample ID: MW-3

Lab Number: T401064

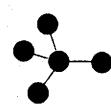
Matrix: Water

### TPH-gas/BTXE

ANALYTE	etection L ppb	imit	Sample Results
Total Petroleum Hydrocarbons as Gasoline	5,000		120,000
Benzene	50		9,500
Toluene	50		4,600
Xylenes Ethylbenzene	50		7,800

Note: Analysis was performed using EPA methods 5030/8015/602 Higher detection limits are due to dilution factors ppb = ug/L

ARGON MOBILE LABS



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SOIL TECH ENGINEERING, INC.

298 Brokaw Rd

Santa Clara, CA 95050

Date Sampled: 01/07/94 Date Received: 01/12/94

Date Reported: 01/14/94

Project ID: 8-90-421-SI

Sample ID: OTMW-5

Lab Number: T401065

Matrix: Water

### TPH-gas/BTXE

ANALYTE	Detection Limit ppb	Sample Results ppb					
Total Petroleum Hydrocarbons as Gasoline	50	1,500					
Benzene	0.5	200					
Toluene	0.5	98					
Xylenes	0.5	57					
Ethylbenzene	0.5	5.0					

Note: Analysis was performed using EPA methods 5030/8015/602 ppb = ug/L

ARGON MOBILE LABS

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