

File No. 8-90-421-SI

2100
REPORT

SHOULDER REPORT

**QUARTERLY GROUNDWATER MONITORING AND
SAMPLING AT PLAZA CAR WASH PROPERTY
LOCATED AT 400 SAN PABLO AVENUE
ALBANY, CALIFORNIA
APRIL 18, 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.

LIST OF TABLES

TABLE 1 ... GROUNDWATER MONITORING DATA.

TABLE 2 ... WATER ANALYTICAL RESULTS.

LIST OF FIGURES

FIGURE 1 ... SITE VICINITY MAP SHOWING 400 SAN PABLO AVENUE,
ALBANY, CALIFORNIA.

FIGURE 2 ... SITE PLAN SHOWING LOCATIONS OF MONITORING WELLS AND
DIRECTION OF GROUNDWATER FLOW.

LIST OF APPENDICES

APPENDIX "A" ... TABLE 1 AND TABLE 2.

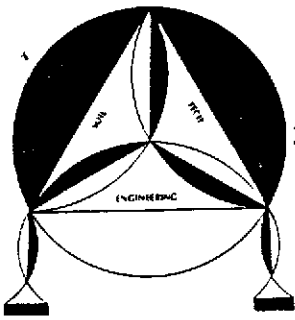
APPENDIX "B" ... FIGURE 1 AND FIGURE 2.

APPENDIX "B" ... STANDARD OPERATING PROCEDURES.

APPENDIX "C" ... ANALYTICAL TEST REPORT OF WATER SAMPLES AND
CHAIN-OF-CUSTODY RECORDS.

SOIL TECH ENGINEERING, INC.

TABLE OF CONTENTS	<u>Page No.</u>
LETTER OF TRANSMITTAL	1
BACKGROUND	1-2
GROUNDWATER MONITORING	2
GROUNDWATER SAMPLING	3
GROUNDWATER FLOW	3
ANALYTICAL RESULTS	3-4
DISCUSSION	4
RECOMMENDATION	4-5
LIMITATIONS	5-6
 <u>APPENDIX "A"</u>	
TABLE 1 - GROUNDWATER MONITORING DATA	T1-T6
TABLE 2 - WATER ANALYTICAL RESULTS	T7-T10
 <u>APPENDIX "A"</u>	
FIGURE 1 - VICINITY MAP	M1
FIGURE 2 - SITE PLAN	M2
 <u>APPENDIX "B"</u>	
GROUNDWATER SAMPLING	SOP1
 <u>APPENDIX "C"</u>	
ARGON MOBILE LABS ANALYTICAL REPORT AND CHAIN-OF-CUSTODY	



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

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

April 18, 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 April 6, 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 April 6, 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, FFP and odor were not detected in wells MW-2, MW-3 and OTMW-5. No FFP was noted in wells STMW-1 and STMW-2. However strong petroleum odors were noted in the purged water in wells STMW-1 and STMW-2. 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 5.82 to 7.72 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 southwesterly direction as of April 6, 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 0.57 milligrams per liter (mg/L) in well OTMW-5 to a maximum of 96 mg/L in well MW-3. Benzene ranged from 0.072 mg/L in well OTMW-5 to a maximum of 6.0 mg/L in well MW-3. Toluene ranged from 0.023 mg/L in well MW-2 to a maximum of 3.1 mg/L in well MW-3. Ethylbenzene ranged from

0.0024 mg/L in well OTMW-5 to a maximum of 0.3 mg/L in well STMW-1. Total Xylenes ranged from 0.022 mg/L in well OTMW-5 to a maximum of 6.2 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 January 7, 1994 results showed a decrease in TPHg concentrations in wells STMW-1 (from 29 to 20 mg/L); STMW-2 (from 22 to 6.6 mg/L); MW-3 (from 120 to 96 mg/L); and OTMW-5 (from 1.5 to 0.57 mg/L). TPHg concentrations increased in well MW-2 (from 0.24 to 3 mg/L) only.

BTEX concentrations decreased substantially in this quarter in wells STMW-1, STMW-2, MW-3 and OTMW-5. BTEX concentrations showed a slight increase in well MW-2. Benzene level from 0.025 to 0.12 mg/L; Toluene levels from 0.0031 to 0.023 mg/L; Ethylbenzene levels from non-detectable to 0.022 mg/L; and Total Xylenes from 0.02 to 0.19 mg/L.

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.
- 2) The results of laboratory analyses performed by a state-certified 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.

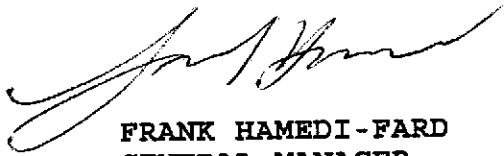
File No. 8-90-421-SI

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.



FRANK HAMEDI-FARD
GENERAL MANAGER



LAWRENCE KOO, P. E.
C. E. #34928

File No. 8-90-421-SI

A P P E N D I X "A"

SOIL TECH ENGINEERING, INC.

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

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

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

**TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)**

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

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

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

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

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

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

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
4/06/94	STMW-1 (100.62)	7.10	93.52	None	Strong Petroleum
	STMW-2 (100.63)	6.84	93.79	None	Strong Petroleum
	MW-2 (99.39)	5.82	93.57	None	None
	MW-3 (100.09)	6.14	93.95	None	None
	OTMW-5 (100.87)	7.72	93.15	None	None

FFP - Free Floating Product
NA - Not Applicable

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

Date	Well No.	TPHg	B	T	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	B	T	E	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	B	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
 IN
 MILLIGRAM PER LITER (mg/L)

Date	Well No.	TPHg	B	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

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

Date	Well No.	TPHg	B	T	E	X
4/06/94	STMW-1	20	1.1	0.56	0.3	1.6
	STMW-2	6.6	0.49	0.14	0.062	0.33
	MW-2	3.0	0.12	0.023	0.022	0.19
	MW-3	96	6.0	3.1	0.095	6.2
	OTMW-5	0.57	0.072	0.036	0.0024	0.022
	SDWS	NL	0.001	0.100*	0.68	1.75

Levels in MW-5 could be increasing due to shift in gradient.

- 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

File No. 8-90-421-SI

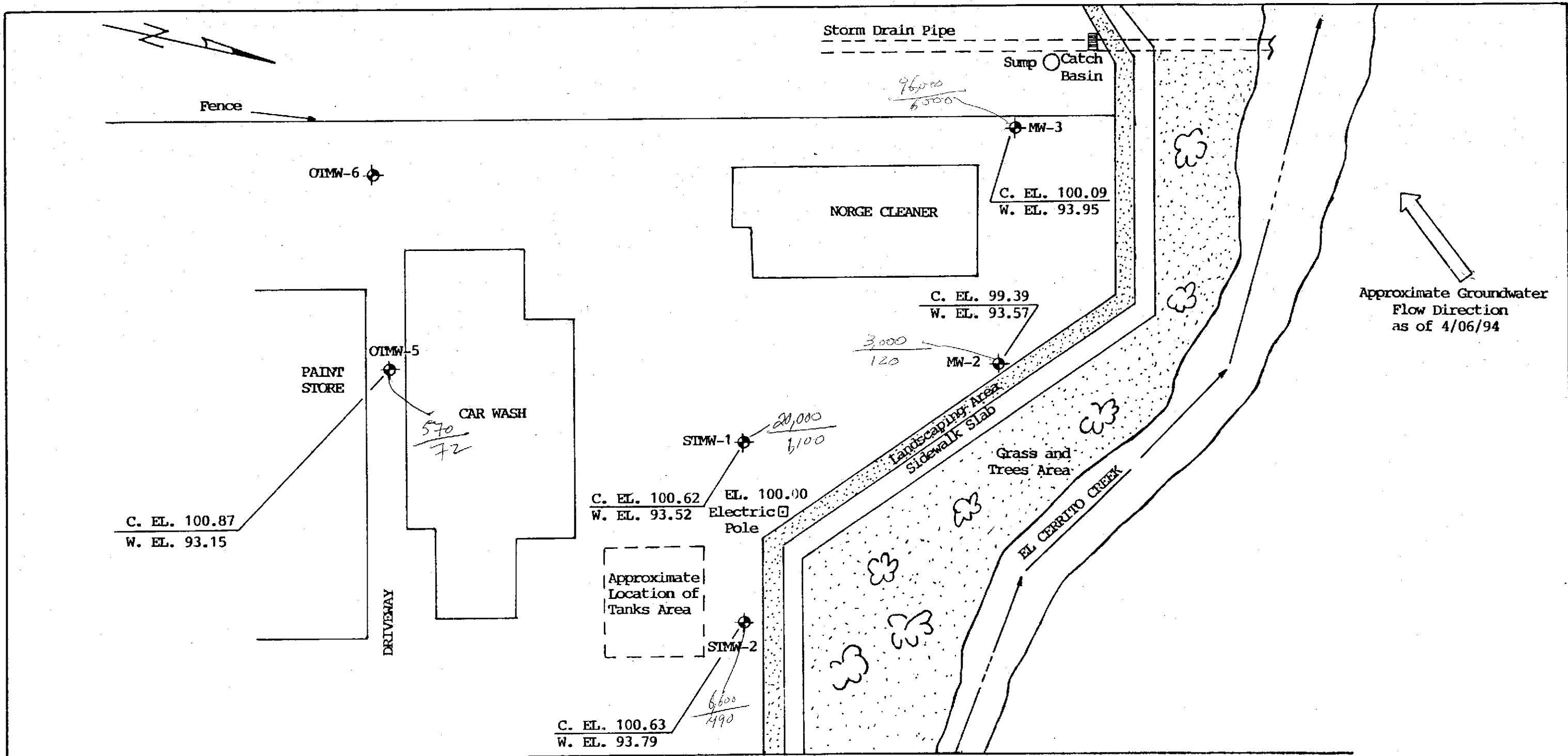
A P P E N D I X "B"

SOIL TECH ENGINEERING, INC.



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

Page 1 D2



M2

C. EL. Casing Elevation
W. EL. Water Elevation
Monitoring Well

*TPHg (ppb)
Benzene*

DIRECTION OF GROUNDWATER FLOW		
400 SAN PABLO AVENUE, ALBANY, CALIFORNIA		
SCALE: 1"=30'	PROJECT NO. 8-90-421-SI	FIGURE 2
DRAWN BY N.A.		4/06/94
SOIL TECH ENGINEERING, INC. 298 BROKAW ROAD, SANTA CLARA, CALIFORNIA 95050		

File No. 8-90-421-SI

A P P E N D I X "C"

SOIL TECH ENGINEERING, INC.

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.

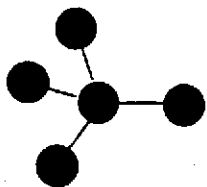
The groundwater sample was collected when the water level in the well recovered to 80% of its static level.

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.

File No. 8-90-421-SI

A P P E N D I X "D"

SOIL TECH ENGINEERING, INC.



Argon Mobile Labs

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

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd
Santa Clara, CA 95050

Date Sampled: 04/06/94
Date Received: 04/06/94
Date Reported: 04/13/94

Project ID: 8-90-421-SI
Sample ID: STMW-1

Lab Number: T404071
Matrix: Water

TPH-gas/BTXE

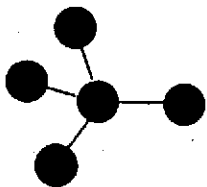
ANALYTE	Detection Limit ppb	Sample Results ppb
Total Petroleum Hydrocarbons as Gasoline	50	20,000
Benzene	0.5	1,100
Toluene	0.5	560
Xylenes	0.5	1,600
Ethylbenzene	0.5	300

QA/QC: Blank is none detected.
107% Matrix Spike Recovery (T404141)
5.8% Duplicate Spike Deviation

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

ARGON MOBILE LABS

Hiram Cueto
Hiram Cueto
Lab Director



Argon Mobile Labs

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

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd
Santa Clara, CA 95050

Date Sampled: 04/06/94
Date Received: 04/06/94
Date Reported: 04/13/94

Project ID: 8-90-421-SI
Sample ID: STMW-2

Lab Number: T404072
Matrix: Water

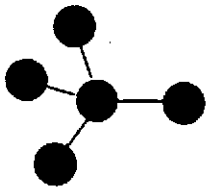
TPH-gas/BTXE

ANALYTE	Detection Limit ppb	Sample Results ppb
Total Petroleum Hydrocarbons as Gasoline	50	6,600
Benzene	0.5	490
Toluene	0.5	140
Xylenes	0.5	330
Ethylbenzene	0.5	62

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

ARGON MOBILE LABS

Hiram Cueto
Lab Director



Argon Mobile Labs

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

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd
Santa Clara, CA 95050

Date Sampled: 04/06/94
Date Received: 04/06/94
Date Reported: 04/13/94

Project ID: 8-90-421-SI
Sample ID: MW-2

Lab Number: T404073
Matrix: Water

TPH-gas/BTXE

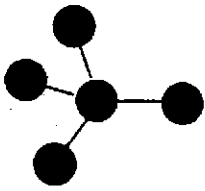
ANALYTE	Detection Limit ppb	Sample Results ppb
Total Petroleum Hydrocarbons as Gasoline	50	3,000
Benzene	0.5	120
Toluene	0.5	23
Xylenes	0.5	190
Ethylbenzene	0.5	22

QA/QC: 5.0% Duplicate Deviation

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

ARGON MOBILE LABS

Hiram Cueto
Hiram Cueto
Lab Director



Argon Mobile Labs

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

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd
Santa Clara, CA 95050

Date Sampled: 04/06/94
Date Received: 04/06/94
Date Reported: 04/13/94

Project ID: 8-90-421-SI
Sample ID: MW-3

Lab Number: T404074
Matrix: Water

TPH-gas/BTXE

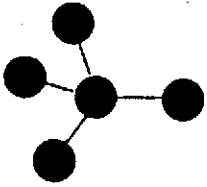
ANALYTE	Detection Limit ppb	Sample Results ppb
Total Petroleum Hydrocarbons as Gasoline	50	96,000
Benzene	0.5	6,000
Toluene	0.5	3,100
Xylenes	0.5	6,200
Ethylbenzene	0.5	95

QA/QC: 6.8% Duplicate Deviation

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

ARGON MOBILE LABS

Hiram Cueto
Hiram Cueto
Lab Director



Argon Mobile Labs

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

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd
Santa Clara, CA 95050

Date Sampled: 04/06/94
Date Received: 04/06/94
Date Reported: 04/13/94

Project ID: 8-90-421-SI
Sample ID: OTMW-5

Lab Number: T404075
Matrix: Water

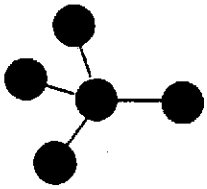
TPH-gas/BTXE

ANALYTE	Detection Limit ppb	Sample Results ppb
Total Petroleum Hydrocarbons as Gasoline	50	570
Benzene	0.5	72
Toluene	0.5	36
Xylenes	0.5	22
Ethylbenzene	0.5	2.4

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

ARGON MOBILE LABS

Hiram Cueto
Hiram Cueto
Lab Director



Argon Mobile Labs

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

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd
Santa Clara, CA 95050

Date Sampled: 04/06/94
Date Received: 04/06/94
Date Reported: 04/13/94

Project ID: 8-90-421-SI
Sample ID: RINSE

Lab Number: T404076
Matrix: Water

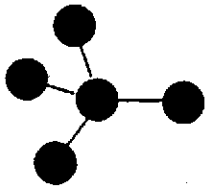
TPH-gas/BTXE

ANALYTE	Detection Limit ppb	Sample Results ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

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

ARGON MOBILE LABS

Hiram Cueto
Hiram Cueto
Lab Director



Argon Mobile Labs

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

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd
Santa Clara, CA 95050

Date Sampled: 04/06/94
Date Received: 04/06/94
Date Reported: 04/13/94

Project ID: 8-90-421-SI
Sample ID: FIELD BLANK

Lab Number: T404077
Matrix: Water

TPH-gas/BTXE

ANALYTE	Detection Limit ppb	Sample Results ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

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

ARGON MOBILE LABS

Hiram Cueto
Lab Director

CHAIN OF CUSTODY RECORD

PROJ. NO. 8-90-421-SI		NAME 400 San Pablo Avenue, Albany				CON-TAINER	ANALYSES REQUESTED TPHG/BTEX	000 501			
SAMPLERS: (Signature) Richard Manley								REMARKS			
NO.	DATE	TIME	SOIL	WATER	LOCATION						
	4/16/94	11:15		✓	STMW-1	2	✓				
	4/16/94	11:15		✓	STMW-2	2	✓				
	4/16/94	11:45		✓	MW-2	2	✓				
	4/16/94	11:45		✓	MW-3	2	✓				
	4/16/94	12:45		✓	OTMW-5	2	✓				
	4/16/94	12:45		✓	Rinse	1	✓				
	4/16/94			✓	Field Blank	1	✓				
Relinquished by: (Signature) Richard Manley		Date / Time 4/16/94 3:00		Received by: (Signature) Dina Puerto		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks			



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

298 BROKAW ROAD, SANTA CLARA, CA 95050 ■ (408) 866-0919 ■ (415) 791-6406