

92 SEP 17 11 21 AM '92



September 15, 1992

Airborne Airtel No. 404 468 9681

Project No. 020501659

Mr. Steven Ritchie
Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

RE: SUBMITTAL OF THE QUARTERLY REPORT OF GROUNDWATER MONITORING AND RELATED ACTIVITIES CONDUCTED AT THE SAFETY-KLEEN OAKLAND SERVICE CENTER, OAKLAND, CALIFORNIA.

Dear Mr. Ritchie:

Safety-Kleen Corporation is pleased to present this report which summarizes the activities conducted at the Safety-Kleen Oakland Service Center during the period from June through August 1992.

We hope this report meets your needs at this time. If you have any questions or comments, please call either Mr. Mike Wray of Groundwater Technology, Inc., at (510) 671-2387, or me at (310) 831-3903.

Sincerely,

Anne Lunt
Senior Project Manager - Remediation
Safety-Kleen Corporation

cc: Ms. Jane Spetalnick, Safety-Kleen Corporation
Mr. Gary Long, Safety-Kleen Corporation
Mr. Ed Hoople, Safety-Kleen Corporation
Mr. Alfred Wong, State of California Department of Health Services
Mr. Dennis Byrnes, Alameda County Department of Environmental Services
Mr. Mike Wray, Groundwater Technology, Inc.

Enclosure

R1659A5.DH
(62)

11/2/92

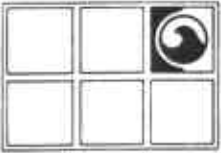
Don

I came across this report. I'm wondering where the rest of the reports/dep ref sheets are.

I noticed that Susan is working this case under LOP however the chlorinated solvents case is another issue which I don't think she's willing to take on.

mw-9 has 2.5 feet of separate phase hydrocarbons.

I tried calling Susan on the intercom but she wasn't there. We need to find the rest of this case & get this thing rolling. Please see me
Thanks
Paul



**GROUNDWATER
TECHNOLOGY, INC.**

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

FAX: (415) 685-9148

**QUARTERLY GROUNDWATER MONITORING REPORT
SAFETY-KLEEN OAKLAND SERVICE CENTER
OAKLAND, CALIFORNIA
JUNE THROUGH AUGUST 1992**

9-15-92

020501659

SEPTEMBER 15, 1992

Prepared for:
Ms. Anne Lunt
Safety-Kleen Corporation
P.O. Box 1429
San Pedro, CA 90733-1429

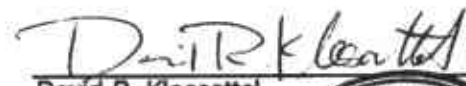
Groundwater Technology, Inc.
Written/Submitted by

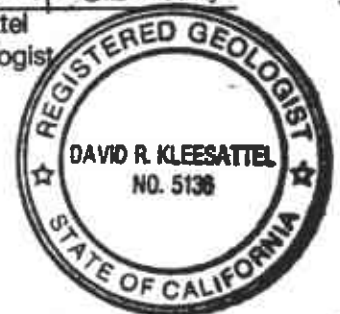

Deborah H. Horner
Geologist


Michael J. Wray
Project Manager

R1659A5.DH
(62)

Groundwater Technology, Inc.
Reviewed/Approved by


David R. Kleesattel
Registered Geologist
No. 5136



CONTENTS

	PAGE
1.0 INTRODUCTION	1
2.0 SITE BACKGROUND	1
3.0 SCOPE OF WORK	2
3.1 Groundwater Monitoring	2
3.2 Groundwater Sampling	2
3.3 Wellhead Repair	3
4.0 FUTURE ACTIVITIES	4
5.0 CLOSURE	4

FIGURES

- FIGURE 1 SITE LOCATION MAP
- FIGURE 2 POTENTIOMETRIC SURFACE MAP (07/09/92)
- FIGURE 3 DISTRIBUTION OF DISSOLVED TCE CONCENTRATIONS
- FIGURE 4 DISTRIBUTION OF DISSOLVED CHLOROBENZENE CONCENTRATIONS
- FIGURE 5 DISTRIBUTION OF DISSOLVED CHLOROFORM CONCENTRATIONS
- FIGURE 6 DISTRIBUTION OF DISSOLVED 1,2-DICHLOROETHANE CONCENTRATIONS

TABLES

- TABLE 1 GROUNDWATER MONITORING DATA
- TABLE 2 ANALYTICAL RESULTS OF GROUNDWATER SAMPLES

APPENDICES

- APPENDIX A LABORATORY REPORTS

**QUARTERLY GROUNDWATER MONITORING REPORT
SAFETY-KLEEN OAKLAND SERVICE CENTER
OAKLAND, CALIFORNIA
JUNE THROUGH AUGUST 1992**

SEPTEMBER 15, 1992

1.0 INTRODUCTION

This report discusses the groundwater monitoring and related environmental assessment activities conducted by Groundwater Technology, Inc. at the Safety-Kleen facility located at 404 Market Street in Oakland, California (Figure 1). The period discussed in this report is from June 1 through August 31, 1992. Activities performed previously were addressed in the Quarterly Report of Groundwater Monitoring, Safety-Kleen Oakland Service Center, for March 1992 through May 1992.

2.0 SITE BACKGROUND

The Safety-Kleen Oakland Service Center serves as a local distribution center for Safety-Kleen products. The clean and spent mineral spirits were previously stored in three underground storage tanks (USTs). Two 6,000-gallon steel USTs were used to store spent mineral spirits before shipment to Safety-Kleen's recycling center in Reedley, California. A third, 10,000-gallon UST was used to store clean mineral spirits.

The three former USTs were replaced with two new double-walled tanks in June and July 1990. All appropriate permits were obtained before the tank removal operation. The Report of Underground Storage Tank Replacement Activities, dated September 1990, was submitted to the Department of Health Services and the California Regional Water Quality Control Board.

3.0 SCOPE OF WORK

3.1 Groundwater Monitoring

Monthly groundwater monitoring and sampling was performed at the Safety-Kleen Oakland Service Center for 20 months, ending August 1990, at which time a quarterly monitoring and sampling program began. The previous quarterly sampling event was conducted on April 27, 1992. This report presents the results of the July 9, 1992, monitoring and sampling event.

The wellhead elevations have been surveyed relative to mean sea level to allow determination of groundwater elevations relative to a known datum. The wells were monitored for depth to water and depth to product using an INTERFACE PROBE™ Well Monitoring System. Interface probe measurements indicated 2.14 feet of separate-phase hydrocarbons in well MW-9. Table 1 summarizes the July 9, 1992, monitoring data.

Figure 2 illustrates the potentiometric surface of the shallow groundwater as interpreted from the monitoring data presented in Table 1. Because monitoring well MW-13 is completed in a deeper hydrogeologic zone, water level measurements from that well were excluded in preparing the potentiometric surface map (Figure 2). The groundwater flow direction is toward the south with an average gradient of 0.003 ft/ft in the site vicinity.

3.2 Groundwater Sampling

Groundwater sampling was conducted by initially purging each well until the extracted water indicated that the temperature, pH, and conductivity had stabilized. Water levels were then allowed to recover to at least 80 percent of their original static level. Groundwater samples were collected using a clean Teflon™ sampling bailer. The samples were placed into 40-milliliter glass volatile organic analysis vials, labeled, placed in an ice-chilled cooler and delivered under chain-of-custody protocol to GTEL Environmental Laboratories, Inc., a California-certified laboratory (CA Cert. No. E675).

The samples were analyzed for total petroleum hydrocarbons (TPH)-as-mineral spirits using modified Environmental Protection Agency (EPA) Method 8015 and for purgeable halocarbons using EPA Method 601. Well MW-9 was not sampled because separate-phase hydrocarbons were present.

Detectable concentrations of TPH-as-mineral spirits were not found in the groundwater samples collected on July 9, 1992. Table 2 summarizes the results of purgeable halocarbon analyses by EPA Method 601. Figures 3 through 6 present the distribution of trichloroethene (TCE), chlorobenzene, chloroform, and 1,2-dichloroethane (DCA) detected in water samples over the past year, including the results from the July 1992 sampling event.

The presence of TCE in the upgradient wells has been interpreted as an off-site plume, unrelated to activities at the Safety-Kleen facility. The highest TCE concentrations were detected in the samples from monitoring wells MW-4 and MW-10, upgradient (north) of the Safety-Kleen facility (Figure 3). Concentrations of TCE have been consistently detected in these wells since installation of the wells in 1988 and 1989 (Groundwater Technology Update Report Additional Assessment, June 1990). The chloroform concentrations are also associated with the encroaching upgradient TCE plume. Since February 1991, TCE concentrations have decreased in samples from well MW-10. It was noted in the previous report that the TCE concentrations in samples from well MW-4 had increased from July 1991 to April 1992, suggesting that the off-site plume may be encroaching further onto the Safety-Kleen property. The July 1992 analytical results showed a significant decrease in TCE concentrations from April 1992 levels.

Figures 4, 5, and 6 present the distribution of chlorobenzene, chloroform, and 1,2-DCA detected in water samples over the past year. Chlorobenzene was detected at 2 ppb in the sample from well MW-3 and 5.7 ppb in the sample from well MW-8. Chloroform was detected in the sample from well MW-10 at 1 ppb. The halocarbon 1,2-DCA was found in the samples from well MW-3 at 1.5 ppb, well MW-8 at 4.8 ppb, and well MW-12 at 1.3 ppb.

3.3 Wellhead Repair

During this reporting period, several of the monitoring wellheads were repaired. The wellheads either had broken lids or the concrete surrounding the street boxes was cracked and needed replacing. The effected monitoring wells included MW-1, MW-3, MW-4, MW-6, and MW-10. Also, well MW-11 was obstructed by an unknown object lodged at approximately 8 feet below grade.

The wellheads were all repaired during the month of June. The obstruction in MW-11 could not be removed from the well, and it was pushed to the bottom.

4.0 FUTURE ACTIVITIES

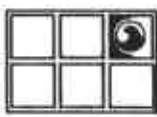
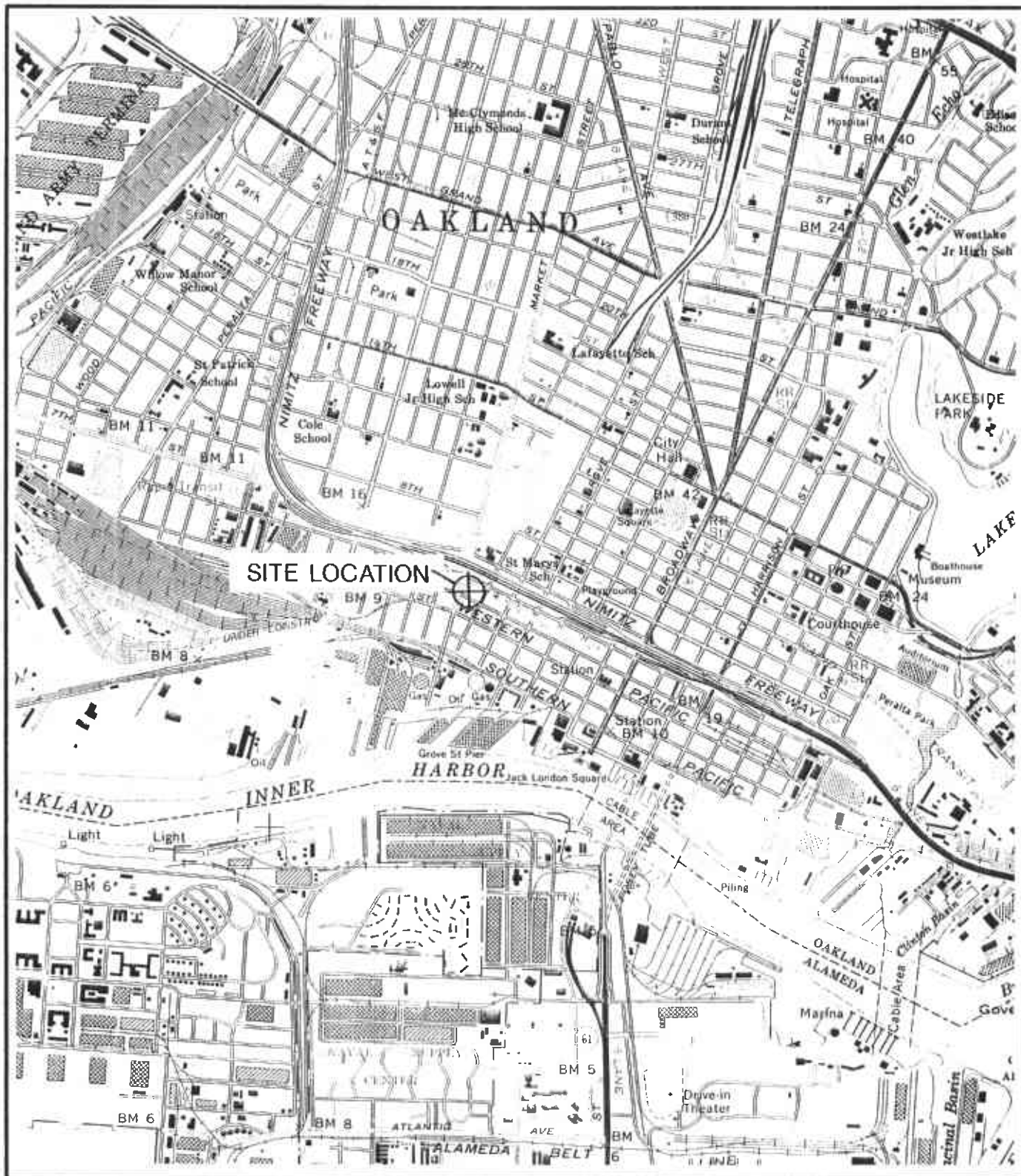
The next quarterly sampling and monitoring event will be conducted during October 1992.

5.0 CLOSURE

This concludes the Quarterly Groundwater Monitoring Report for the Oakland Service Center facility for June through August 1992. If you have any questions, or require additional information, please contact our Concord office at (510) 671-2387.

FIGURES

- FIGURE 1 SITE LOCATION MAP
- FIGURE 2 POTENTIOMETRIC SURFACE MAP
- FIGURE 3 DISTRIBUTION OF DISSOLVED TCE CONCENTRATIONS
- FIGURE 4 DISTRIBUTION OF DISSOLVED CHLOROBENZENE CONCENTRATIONS
- FIGURE 5 DISTRIBUTION OF DISSOLVED CHLOROFORM CONCENTRATIONS
- FIGURE 6 DISTRIBUTION OF DISSOLVED 1,2-DICHLOROETHANE CONCENTRATIONS



**GROUNDWATER
TECHNOLOGY**

4057 PORT CHICAGO HWY
CONCORD, CA 94520
(510) 671-2387



SCALE:
0 FEET 2000

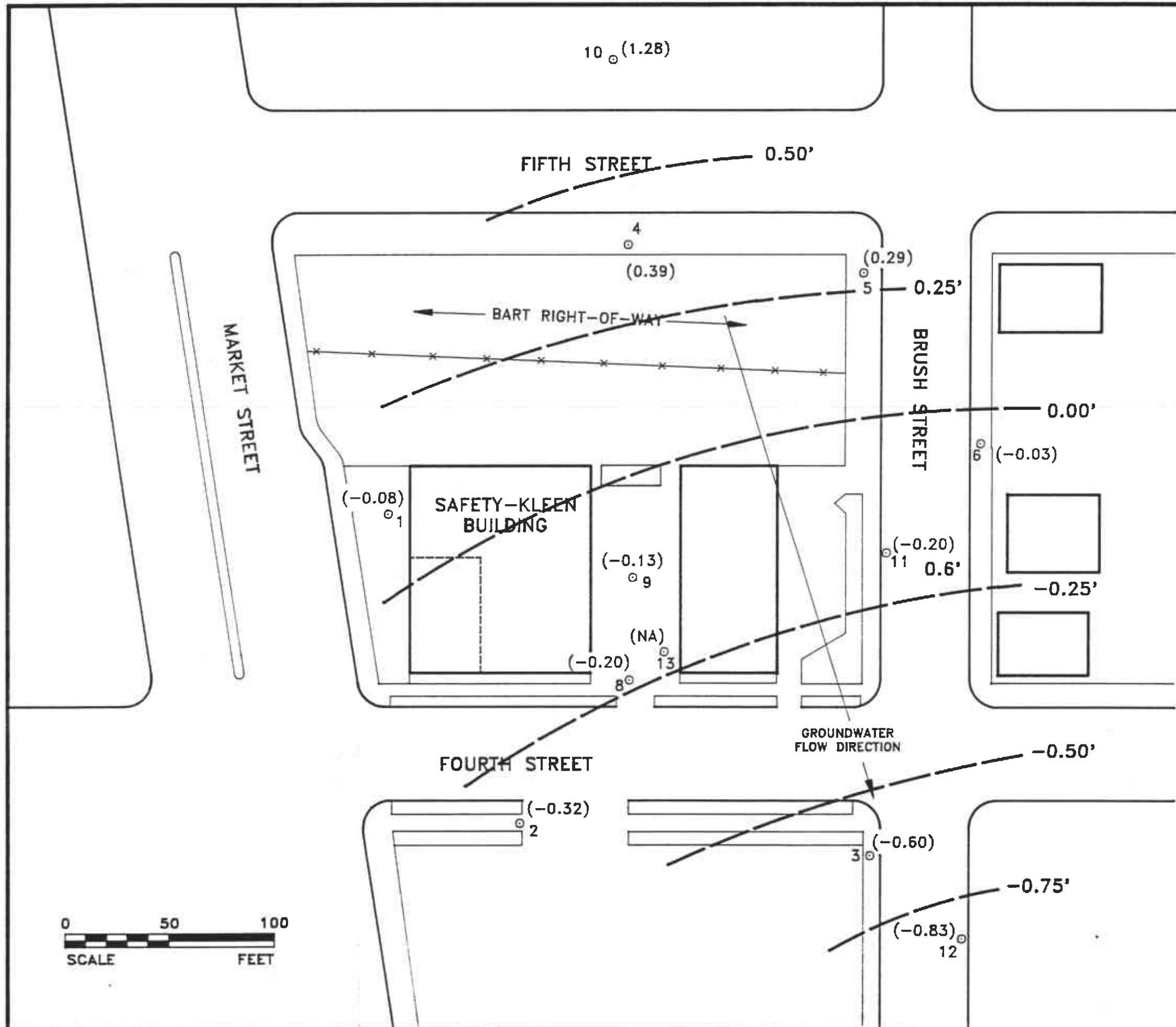
SITE LOCATION MAP

CLIENT: **SAFETY-KLEEN
CORPORATION**

DATE:
3/3/92

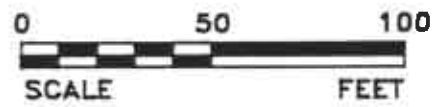
LOCATION: **404 MARKET STREET
OAKLAND, CALIFORNIA**

FIGURE:
1

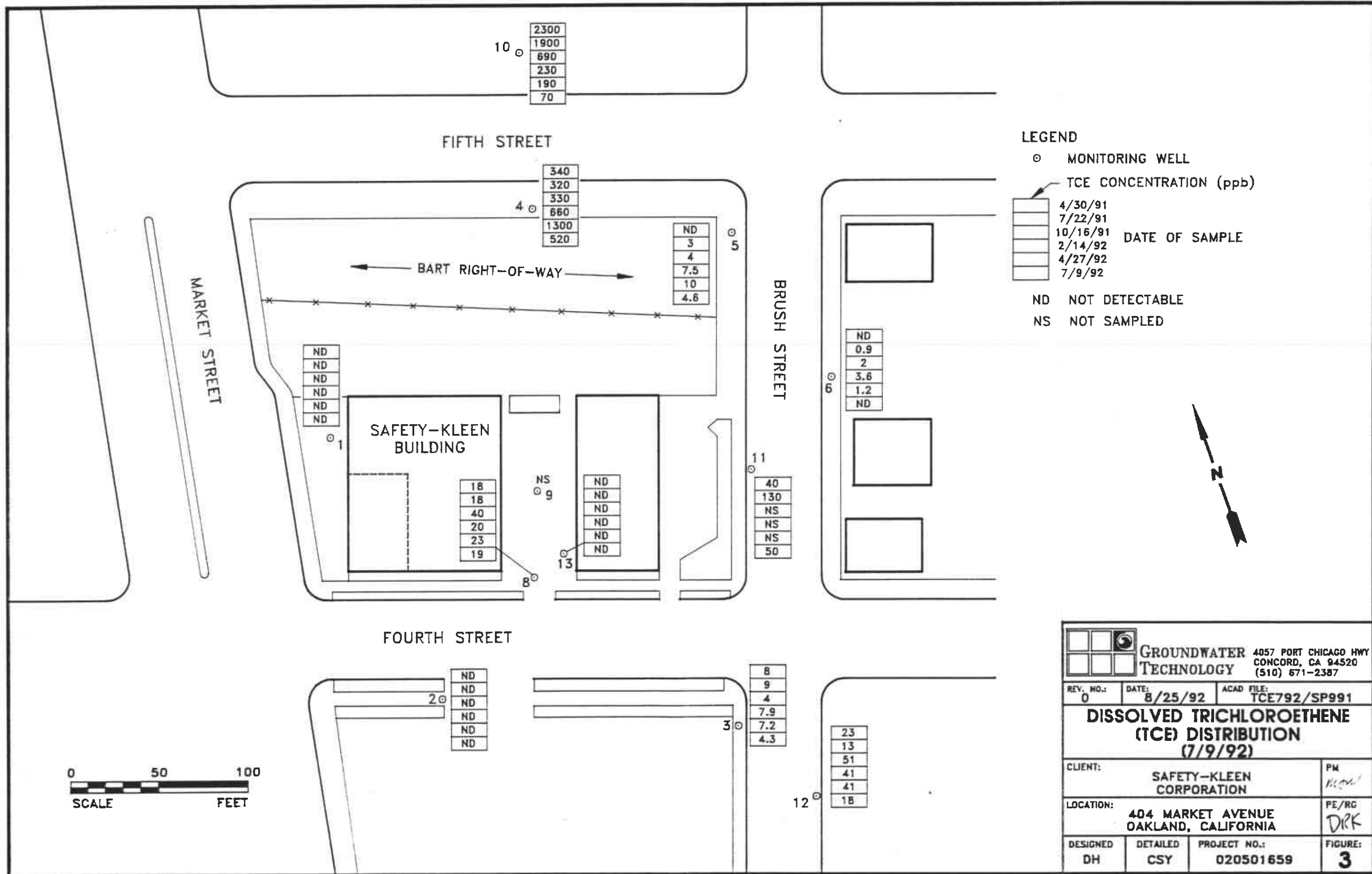


LEGEND

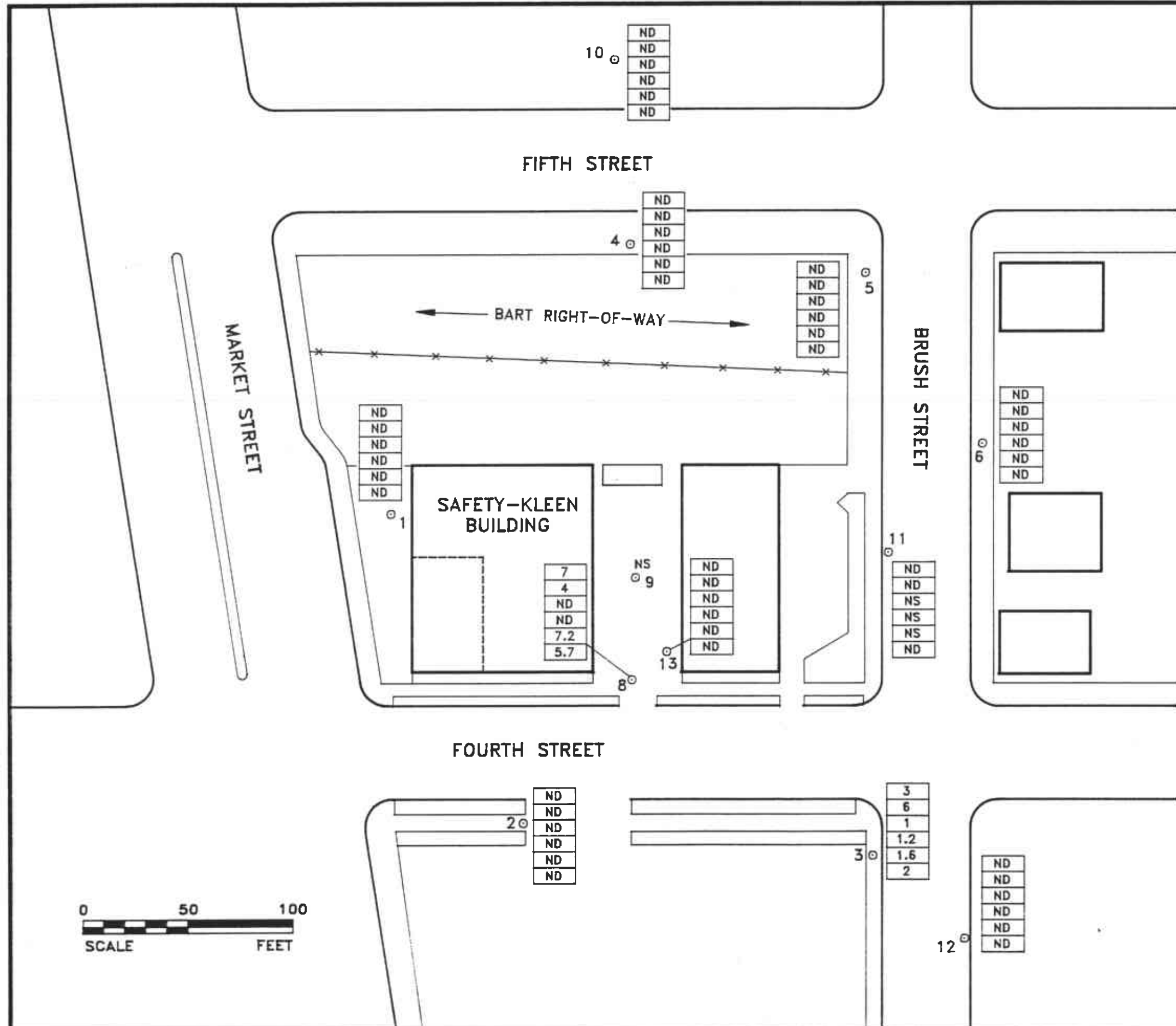
- ⊙ MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION (RELATIVE TO MEAN SEA LEVEL)
- POTENTIOMETRIC SURFACE CONTOUR
- (NA) NOT APPLICABLE



		GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387	
REV. NO.:	DATE:	ACAD FILE:	
0	8/25/92	PSM--792/SP991	
POTENTIOMETRIC SURFACE MAP (7/9/92)			
CLIENT:		PM	
SAFETY-KLEEN CORPORATION		<i>mjm</i>	
LOCATION:		PE/RG	
404 MARKET STREET OAKLAND, CALIFORNIA		DRK	
DESIGNED	DETAILED	PROJECT NO.:	FIGURE:
DH	CSY	020501659	2



		GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387	
REV. NO.: 0	DATE: 8/25/92	ACAD FILE: TCE792/SP991	
DISSOLVED TRICHLOROETHENE (TCE) DISTRIBUTION (7/9/92)			
CLIENT:	SAFETY-KLEEN CORPORATION		PM <i>McG</i>
LOCATION:	404 MARKET AVENUE OAKLAND, CALIFORNIA		PE/RC <i>DRK</i>
DESIGNED DH	DETAILED CSY	PROJECT NO.: 020501659	FIGURE: 3



LEGEND

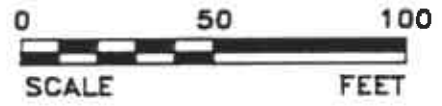
○ MONITORING WELL

CHLOROBENZENE CONCENTRATION (ppb)

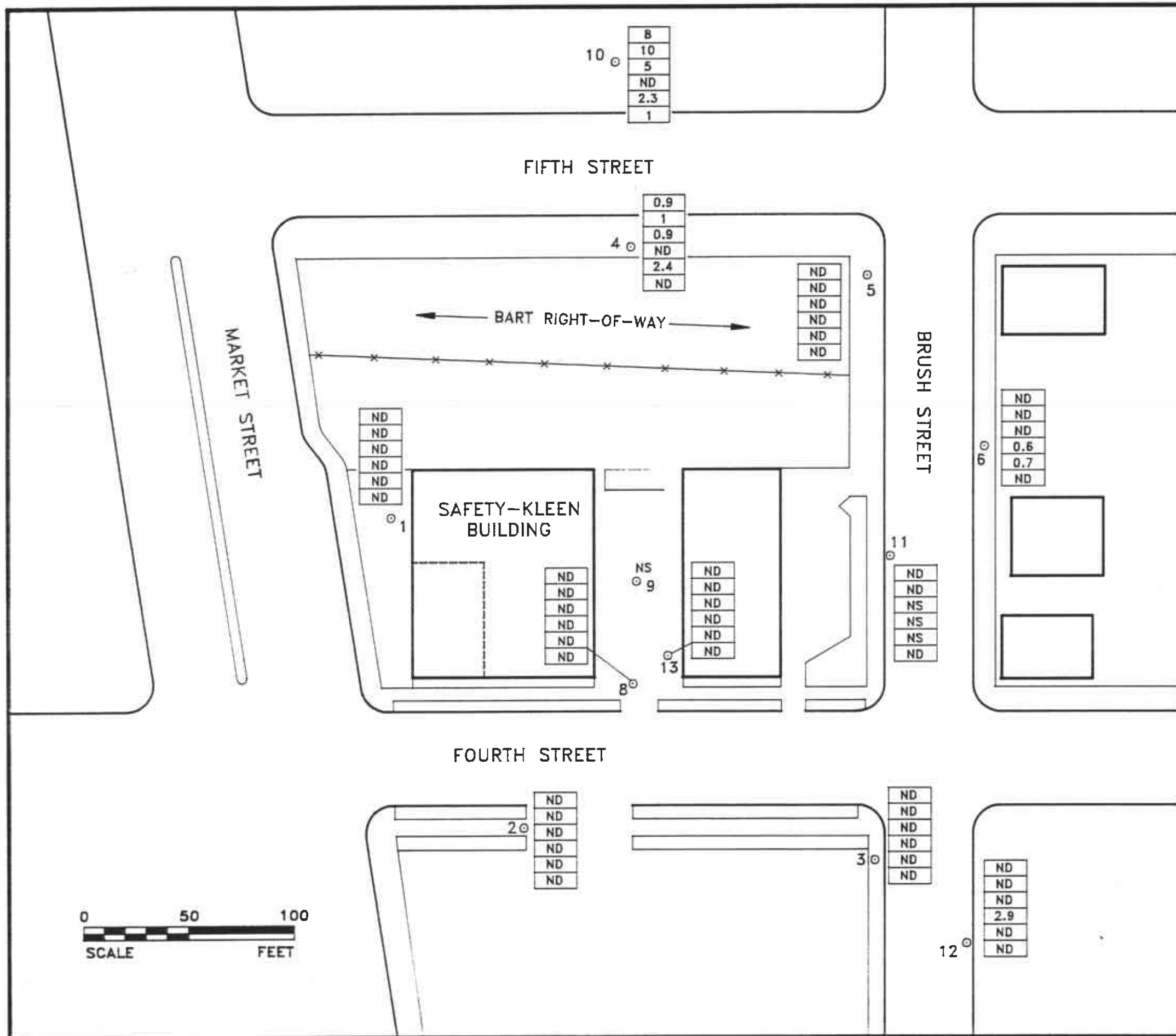
DATE OF SAMPLE

4/30/91
7/22/91
10/16/91
2/14/92
4/27/92
7/9/92

ND NOT DETECTABLE
NS NOT SAMPLED



		GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387	
REV. NO.:	0	DATE:	8/25/92
ACAD FILE:	CLBNZ792/SP991		
DISSOLVED CHLOROBENZENE DISTRIBUTION (7/9/92)			
CLIENT:	SAFETY-KLEEN CORPORATION		PM <i>[Signature]</i>
LOCATION:	404 MARKET AVENUE OAKLAND, CALIFORNIA		PE/RC <i>[Signature]</i>
DESIGNED	DETAILED	PROJECT NO.:	FIGURE:
DH	CSY	020501659	4



LEGEND

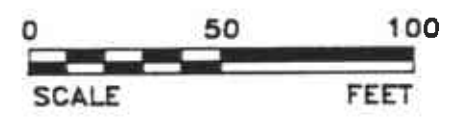
○ MONITORING WELL

CHLOROFORM CONCENTRATION (ppb)

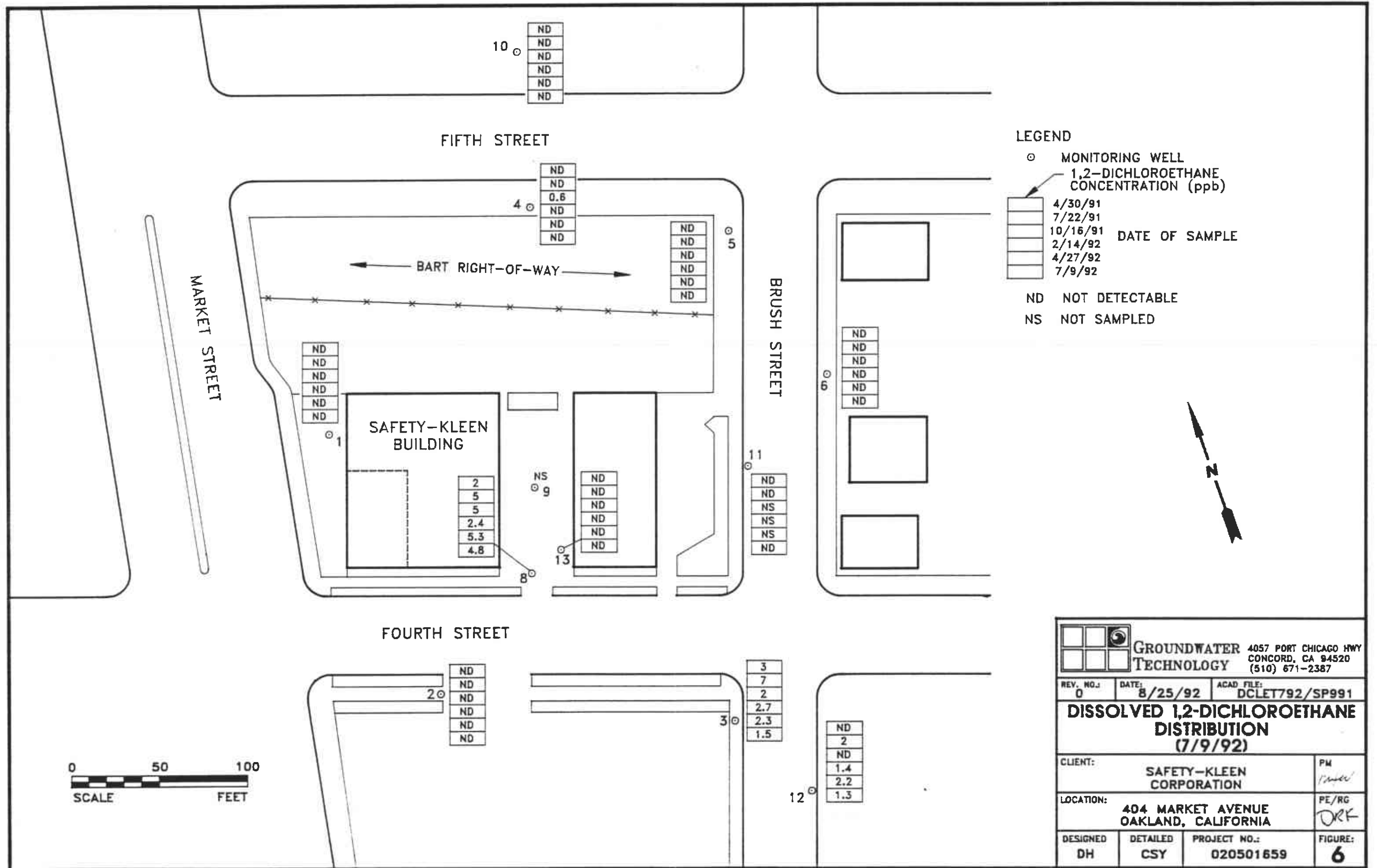
DATE OF SAMPLE

ND NOT DETECTABLE

NS NOT SAMPLED



		GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387	
REV. NO.:	DATE:	ACAD FILE:	
0	8/25/92	CLFRM792/SP991	
DISSOLVED CHLOROFORM DISTRIBUTION (7/9/92)			
CLIENT:	SAFETY-KLEEN CORPORATION		PM <i>M. J. ...</i>
LOCATION:	404 MARKET AVENUE OAKLAND, CALIFORNIA		PE/RG <i>DRK</i>
DESIGNED DH	DETAILED CSY	PROJECT NO.:	FIGURE:
		020501659	5



TABLES

TABLE 1 GROUNDWATER MONITORING DATA
TABLE 2 ANALYTICAL RESULTS OF GROUNDWATER SAMPLES

**TABLE 1
GROUNDWATER MONITORING DATA
JULY 9, 1992**

WELL ID	TOC ELEVATION (ft msl)	DTW (ft)	DTP (ft)	PT (ft)	ADJ ELEVATION (ft msl)
MW-1	7.99	7.91	-	-	0.08
MW-2	8.20	8.52	-	-	- 0.32
MW-3	6.66	7.26	-	-	- 0.60
MW-4	10.32	9.93	-	-	0.39
MW-5	10.28	9.99	-	-	0.29
MW-6	8.97	9.00	-	-	- 0.03
MW-8	7.80	8.00	-	-	- 0.20
MW-9	8.21	10.05	7.91	2.14	- 0.13
MW-10	10.43	9.75	-	-	0.68
MW-11	7.91	8.11	-	-	- 0.20
MW-12	6.74	7.57	-	-	- 0.83
MW-13	8.08	8.72	-	-	- 0.64

TOC = Top of casing
 DTW = Depth-to-water
 DTP = Depth-to-product (separate-phase hydrocarbons)
 PT = Product thickness
 ADJ ELEVATION = Adjusted water level elevation. If product is present in the well, the water level elevation is adjusted by adding 0.8 x the product thickness.

TABLE 2
ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
EPA METHOD 601
JULY 9, 1992
(Results in parts per billion)

WELL ID	1,1-DCA	1,2-DCA	1,2-DCE	CHLRFORM	1,1,1-TCA	TCE	CHLRBENZ	1,2-DCB	VC	PCE	1,4-DCB
MW-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	ND	1.5	ND	ND	ND	4.3	2	ND	ND	ND	ND
MW-4	ND	ND	40	ND	ND	520	ND	ND	ND	ND	ND
MW-5	ND	ND	ND	ND	0.9	4.6	ND	ND	ND	ND	ND
MW-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	2.4	4.8	1.8	ND	ND	19	5.7	1.1	ND	1.1	2
MW-10	ND	ND	25	1	ND	70	ND	ND	0.83	ND	ND
MW-11	ND	ND	7.3	ND	ND	50	ND	ND	ND	ND	ND
MW-12	2.4	1.3	2.9	ND	ND	18	ND	ND	ND	ND	ND
MW-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

M.S.
 ND-
 ND-
 ND-
 ND-
 ND-
 ND-
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 ND-
 ND-
 ND-

Only detected compounds are listed. For a complete list of analytes see Appendix A.

ND = Not detected. See laboratory reports in Appendix A for detection

Abbreviations:

- | | | | |
|---------|-----------------------|-----------|-------------------------|
| 1,1-DCA | = 1,1-Dichloroethane | 1,1,1-TCA | = 1,1,1-Trichloroethane |
| 1,2-DCA | = 1,2-Dichloroethane | TCE | = Trichloroethene |
| 1,2-DCE | = 1,2-Dichloroethene | CHLRBENZ | = Chlorobenzene |
| 1,2-DCB | = 1,2-Dichlorobenzene | CHLRFORM | = Chloroform |
| PCE | = Tetrachloroethene | 1,4-DCB | = 1,4-Dichlorobenzene |
| VC | = Vinyl chloride | | |

APPENDIX A
LABORATORY REPORTS



Northwest Region

4080-C Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 from inside California
(800) 423-7143 from outside California
(510) 825-0720 (FAX)

Client Number: GT172SFK01
Consultant Project Number: 020501659.61
Project ID: 404 Market St.
Work Order Number: C2-07-192

July 28, 1992

Debbie Horner
Groundwater Technology, Inc.
4057 Port Chicago Hwy.
Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 07/09/92, under chain of custody records 72-2932, 72-2933 and 23711.

A formal Quality Control/Quality Assurance (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Eileen F. Bullen
Laboratory Director

Table 1
ANALYTICAL RESULTS
Purgeable Halocarbons in Water
EPA Method 601^a

GTEL Sample Number		01	02	03	04
Client Identification		MW-13	MW-1	MW-2	MW-6
Date Sampled		07/09/92	07/09/92	07/09/92	07/09/92
Date Analyzed		07/23/92	07/23/92	07/22/92	07/22/92
Analyte	Quantitation Limit, ug/L	Concentration, ug/L			
Chloromethane	0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane	0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	1	<1	<1	<1	<1
Chloroethane	0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	0.2	<0.2	<0.2	<0.2	<0.2
1,1-Dichloroethane	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene	0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	<0.5
2-Chloroethylvinyl ether	1	<1	<1	<1	<1
Bromoform	0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane	0.5	<0.5	<0.5	<0.5	<0.5
Quantitation Limit Multiplier		1	1	1	1

a. Federal Register, Vol. 49, October 26, 1984.

Table 1 (Continued)
ANALYTICAL RESULTS
Purgeable Halocarbons in Water
EPA Method 601^a

GTEL Sample Number		05	06	07	08
Client Identification		MW-5	MW-3	MW-12	MW-8
Date Sampled		07/09/92	07/09/92	07/09/92	07/09/92
Date Analyzed		07/22/92	07/22/92	07/22/92	07/22/92
Analyte	Quantitation Limit, ug/L	Concentration, ug/L			
Chloromethane	0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane	0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	1	<1	<1	<1	<1
Chloroethane	0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	0.2	<0.2	<0.2	<0.2	<0.2
1,1-Dichloroethane	0.5	<0.5	<0.5	2.4	<0.5
1,2-Dichloroethene	0.5	<0.5	<0.5	2.9	1.8
Chloroform	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5	<0.5	1.5	1.3	4.8
1,1,1-Trichloroethane	0.5	0.9	<0.5	<0.5	<0.5
Carbon tetrachloride	0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	0.5	4.6	4.3	18	19
Dichlorodifluoromethane	0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	<0.5
2-Chloroethylvinyl ether	1	<1	<1	<1	<1
Bromoform	0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	0.5	<0.5	2	<0.5	5.7
1,2-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	1.1
1,3-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane	0.5	<0.5	<0.5	<0.5	<0.5
Quantitation Limit Multiplier		1	1	1	1

a. Federal Register, Vol. 49, October 26, 1984.

Table 1 (Continued)
ANALYTICAL RESULTS
Purgeable Halocarbons in Water
EPA Method 601^a

GTEL Sample Number		09	10	11	
Client Identification		MW-11	MW-4	MW-10	
Date Sampled		07/09/92	07/09/92	07/09/92	
Date Analyzed		07/22/92	07/22/92	07/22/92	
Analyte	Quantitation Limit, ug/L	Concentration, ug/L			
Chloromethane	0.5	<0.5	<0.5	<0.5	
Bromomethane	0.5	<0.5	<0.5	<0.5	
Vinyl chloride	1	<1	<1	0.83	
Chloroethane	0.5	<0.5	<0.5	<0.5	
Methylene chloride	0.5	<0.5	<0.5	<0.5	
1,1-Dichloroethane	0.2	<0.2	<0.2	<0.2	
1,1-Dichloroethane	0.5	<0.5	<0.5	<0.5	
1,2-Dichloroethane	0.5	7.3	40	25	
Chloroform	0.5	<0.5	<0.5	1	
1,2-Dichloroethane	0.5	<0.5	<0.5	<0.5	
1,1,1-Trichloroethane	0.5	<0.5	<0.5	<0.5	
Carbon tetrachloride	0.5	<0.5	<0.5	<0.5	
Bromodichloromethane	0.5	<0.5	<0.5	<0.5	
1,2-Dichloropropane	0.5	<0.5	<0.5	<0.5	
cis-1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	
Trichloroethene	0.5	50	520	70	
Dichlorodifluoromethane	0.5	<0.5	<0.5	<0.5	
Dibromochloromethane	0.5	<0.5	<0.5	<0.5	
1,1,2-Trichloroethane	0.5	<0.5	<0.5	<0.5	
trans-1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	
2-Chloroethylvinyl ether	1	<1	<1	<1	
Bromoform	0.5	<0.5	<0.5	<0.5	
Tetrachloroethene	0.5	<0.5	<0.5	<0.5	
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	
Chlorobenzene	0.5	<0.5	<0.5	<0.5	
1,2-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	
1,3-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	
1,4-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	
Trichlorofluoromethane	0.5	<0.5	<0.5	<0.5	
Quantitation Limit Multiplier		1	1	1	

a. Federal Register, Vol. 49, October 26, 1984.



GTEL

ENVIRONMENTAL
LABORATORIES, INC.

Northwest Region

4080-C Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 from inside California
(800) 423-7143 from outside California
(510) 825-0720 (FAX)

Client Number: GTI72SFK01
Consultant Project Number: 020501659.61
Project ID: 404 Market St.
Work Order Number: C2-07-191

July 16, 1992

Debbie Horner
Groundwater Technology, Inc.
4057 Port Chicago Hwy.
Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 07/09/92, under chain of custody records 72-2932, 72-2933, 23711 and 23712.

A formal Quality Control/Quality Assurance (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Eileen F. Bullen
Laboratory Director

Client Number: GTI72SFK01
 Consultant Project Number: 020501659.61
 Project ID: 404 Market St.
 Work Order Number: C2-07-191

Table 1
ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Mineral Spirits in Water
Modified EPA Method 5030/8015a

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986.

GTEL Sample Number		01	02	03	04
Client Identification		MW-13	MW-1	MW-2	MW-6
Date Sampled		07/09/92	07/09/92	07/09/92	07/09/92
Date Analyzed		07/14/92	07/13/92	07/13/92	07/13/92
Analyte	Quantitation Limit, ug/L	Concentration, ug/L			
Mineral spirits	10	<10	<10	<10	<10
Quantitation Limit Multiplier		1	1	1	1

GTEL Sample Number		05	06	07	08
Client Identification		MW-5	MW-3	MW-12	MW-8
Date Sampled		07/09/92	07/09/92	07/09/92	07/09/92
Date Analyzed		07/13/92	07/13/92	07/13/92	07/13/92
Analyte	Quantitation Limit, ug/L	Concentration, ug/L			
Mineral spirits	10	<10	<10	<10	<10
Quantitation Limit Multiplier		1	1	1	1

Client Number: GTI72SFK01
 Consultant Project Number: 020501659.61
 Project ID: 404 Market St.
 Work Order Number: C2-07-191

Table 1 (Continued)
ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Mineral Spirits in Water
Modified EPA Method 5030/8015^a

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986.

GTEL Sample Number		09	10	11	
Client Identification		MW-11	MW-4	MW-10	
Date Sampled		07/09/92	07/09/92	07/09/92	
Date Analyzed		07/14/92	07/14/92	07/14/92	
Analyte	Quantitation Limit, ug/L	Concentration, ug/L			
Mineral spirits	10	<10	<10	<10	
Quantitation Limit Multiplier		1	1	1	



4080- Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

**CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST**

72- 2932

CUSTODY RECORD

Project Manager:

D. Horner

Phone #:

FAX #:

Address:

4057 port chicago Hwy 404 market st.

Site location:

Project Number:

020501659-61

Project Name:

Safety-Klean/Oakland

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print):

Greg MASON

ANALYSIS REQUEST

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix				Method Preserved				Sampling		
				WATER	SOIL	AIR	SLUDGE OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	DATE
Travel blank			1	X									7/9	
RBMW-13			1										9	
MW-13	01	N	2										42	
RBMW-1			1											
MW-1	02	N	2											
MW-1			2					X						
RBMW-2			1											
MW-2	03	N	2											
MW-2			2					X						
RBMW-6			1											

BTEX 602 <input type="checkbox"/>	8020 <input type="checkbox"/>	with MTBE <input type="checkbox"/>
BTEX/TPH Gas 602/8015 <input type="checkbox"/>	8020/8015 <input type="checkbox"/>	MTBE <input type="checkbox"/>
TPH as <input type="checkbox"/>	Gas <input type="checkbox"/>	Diesel <input type="checkbox"/>
Jet Fuel <input type="checkbox"/>	Oil <input type="checkbox"/>	SPH <input type="checkbox"/>
Product I.D. by GC (SIMDIS) <input type="checkbox"/>		
Total Oil & Grease: 413.1 <input type="checkbox"/>	413.2 <input type="checkbox"/>	503A <input type="checkbox"/>
Total Petroleum Hydrocarbons: 418.1 <input type="checkbox"/>	503E <input type="checkbox"/>	
EPA 601 <input type="checkbox"/>	8010 <input type="checkbox"/>	DCA only <input type="checkbox"/>
EPA 602 <input type="checkbox"/>	8020 <input type="checkbox"/>	
EPA 608 <input type="checkbox"/>	8080 <input type="checkbox"/>	PCBs only <input type="checkbox"/>
EPA 610 <input type="checkbox"/>	8310 <input type="checkbox"/>	
EPA 624 <input type="checkbox"/>	8240 <input type="checkbox"/>	
EPA 625 <input type="checkbox"/>	8270 <input type="checkbox"/>	NBS +15 <input type="checkbox"/>
EPA 625 <input type="checkbox"/>	8270 <input type="checkbox"/>	NBS +2 <input type="checkbox"/>
EPTOX: Metals <input type="checkbox"/>	Pesticides <input type="checkbox"/>	Herbicides <input type="checkbox"/>
TCLP Metals <input type="checkbox"/>	VOA <input type="checkbox"/>	VOA <input type="checkbox"/>
EPA Priority Pollutant Metals <input type="checkbox"/>	HSE <input type="checkbox"/>	
LEAD 7420 <input type="checkbox"/>	7421 <input type="checkbox"/>	230.2 <input type="checkbox"/>
8010 <input type="checkbox"/>	Org <input type="checkbox"/>	
CAM Metals <input type="checkbox"/>	STLC <input type="checkbox"/>	
Corrosivity <input type="checkbox"/>	Flashpoint <input type="checkbox"/>	Reactivity <input type="checkbox"/>

0207 192

Hold

Received by:

Time

Date

Received by:

Time

Date

Received by Laboratory:

Time

Date

Way bill #
Jasmi Davis

7/9/92 4:00

SPECIAL HANDLING

- 24 HOURS
- EXPEDITED 48 Hours
- SEVEN DAY
- OTHER _____ (#) BUSINESS DAYS
- QA/QC CLP Level Blue Level
- FAX

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:

1 of 4

Lab Use Only

Lot #:

Storage Location

Work Order #:

Relinquished by: [Signature]

Relinquished by:

Relinquished by:



4080- Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

**CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST** **72-2933**

CUSTODY RECORD

Project Manager: **D Horner** Phone #: _____
Address: **4057 PORT CHICAGO Hwy** Site location: **404 Market**
Project Number: **020501659** Project Name: **SAFETY KERN OAKLAND**

I attest that the proper field sampling procedures were used during the collection of these samples. Sampler Name (Print): **Grey Mason**

ANALYSIS REQUEST

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix						Method Preserved					Sampling		
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	DATE	TIME	
MW-6			2	X						X						7/9	
MW-6	04	N	2													92	
RBW-5			1														
MW-5	05	N	2							X							
RBW-3			1														
MW-3	06	N	2							X							
MW-3			2														
RBW-12			1														
MW-12	07	NL	2							X							
MW-12			2														

BTEX 602 <input type="checkbox"/>	8020 <input type="checkbox"/>	with MTBE <input type="checkbox"/>	BTEX/TPH Gas 602/8015 <input type="checkbox"/>	8020/8015 <input type="checkbox"/>	MTBE <input type="checkbox"/>	TPH as Gas <input type="checkbox"/>	Gas <input type="checkbox"/>	Diesel <input type="checkbox"/>	Jet Fuel <input type="checkbox"/>	MWD <input checked="" type="checkbox"/>	Product ID, by GC (SIMDIS) <input type="checkbox"/>	Total Oil & Grease: 413.1 <input type="checkbox"/>	413.2 <input type="checkbox"/>	503A <input type="checkbox"/>	Total Petroleum Hydrocarbons: 418.1 <input type="checkbox"/>	503E <input type="checkbox"/>	EPA 601 <input checked="" type="checkbox"/>	8010 <input type="checkbox"/>	DCA only <input type="checkbox"/>	EPA 602 <input type="checkbox"/>	8020 <input type="checkbox"/>	PCBs only <input type="checkbox"/>	EPA 608 <input type="checkbox"/>	8080 <input type="checkbox"/>	EPA 610 <input type="checkbox"/>	8310 <input type="checkbox"/>	EPA 824 <input type="checkbox"/>	8240 <input type="checkbox"/>	NBS +15 <input type="checkbox"/>	EPA 825 <input type="checkbox"/>	8270 <input type="checkbox"/>	NBS +25 <input type="checkbox"/>	EPTOX: Metals <input type="checkbox"/>	Pesticides <input type="checkbox"/>	Herbicides <input type="checkbox"/>	TCLP Metals <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi VOA <input type="checkbox"/>	HSL <input type="checkbox"/>	EPA Priority Pollutant Metals <input type="checkbox"/>	LEAD 7420 <input type="checkbox"/>	7421 <input type="checkbox"/>	239.2 <input type="checkbox"/>	8010 <input type="checkbox"/>	Org-Lead <input type="checkbox"/>	CAM Metals <input type="checkbox"/>	STLC <input type="checkbox"/>	TTLIC <input type="checkbox"/>	Corrosivity <input type="checkbox"/>	Flashpoint <input type="checkbox"/>	Reactivity <input type="checkbox"/>	HOLD
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Relinquished by Sampler:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	7/9/92	4:00	<i>Garnie Davis</i>

may bill #

SPECIAL HANDLING

- 24 HOURS
- EXPEDITED 48 Hours
- SEVEN DAY
- OTHER _____ (#) BUSINESS DAYS
- QA/QC CLP Level Blue Level
- FAX

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:

2 of 4

Lab Use Only

Lot #:

Storage Location

Work Order #:

[Signature]



4080 FIRE LANE, SUITE C
CONCORD, CA 94520
(510) 685-7852
(800) 423-7143

ANALYSIS REQUEST

23711

ANALYSIS REQUEST

Name: **ST 1** Phone #: _____

Company Address: **4057 port chicago Hwy** Site location: **404 Market St.**

Project Manager: **D Horner** Client Project ID: (#) **020501659**

I attest that the proper field sampling procedures were used during the collection of these samples. (NAME) **Safety Klean Oakland**

Sampler Name (Print): **Greg MASON**

Matrix: _____

Method Preserved: _____

Sampling: _____

Field Sample ID	GTEL Lab # (Lab use only)	# Containers	Matrix						Method Preserved						Sampling		
			WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	UNPRESERVED	OTHER (SPECIFY)	DATE	TIME	
RBMW-8		1	X									X				7/9	
MW-8		2										X				92	
MW-8 08 NL		2															
RBMW-11		1															
MW-11		2															
MW-11 09		2						X									
RBMW-4		1															
MW-4		2															
MW-4 10 x25		2						X									
RBMW-10		1															

<input type="checkbox"/> BTEX/602 <input type="checkbox"/> 8020 <input type="checkbox"/> with MTBE <input type="checkbox"/>	<input type="checkbox"/> BTEX/Gas Hydrocarbons PID/FID <input type="checkbox"/> with MTBE <input type="checkbox"/>	<input type="checkbox"/> Hydrocarbons GC/FID Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Screen <input type="checkbox"/>	<input type="checkbox"/> Hydrocarbon Profile (SIMDIS) <input type="checkbox"/>	<input type="checkbox"/> Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> SM 503 <input type="checkbox"/>	<input type="checkbox"/> TPH/IR 418.1 <input type="checkbox"/> SM 503 <input type="checkbox"/>	<input type="checkbox"/> EDB by 504 <input type="checkbox"/> DBCP by 504 <input type="checkbox"/>	<input type="checkbox"/> EPA 503.1 <input type="checkbox"/> EPA 502.2 <input type="checkbox"/>	<input type="checkbox"/> EPA 601 <input type="checkbox"/> EPA 8010 <input type="checkbox"/>	<input type="checkbox"/> EPA 802 <input type="checkbox"/> EPA 8020 <input type="checkbox"/>	<input type="checkbox"/> EPA 806 <input type="checkbox"/> 8080 <input type="checkbox"/> PCB only <input type="checkbox"/>	<input type="checkbox"/> EPA 824/PPL <input type="checkbox"/> 8240/TAL <input type="checkbox"/> NBS (+15) <input type="checkbox"/>	<input type="checkbox"/> EPA 825/PPL <input type="checkbox"/> 8270/TAL <input type="checkbox"/> NBS (+25) <input type="checkbox"/>	<input type="checkbox"/> EPA 810 <input type="checkbox"/> 8310 <input type="checkbox"/>	<input type="checkbox"/> EP TOX Metals <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/>	<input type="checkbox"/> TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pest <input type="checkbox"/> Herb <input type="checkbox"/>	<input type="checkbox"/> EPA Metals - Priority Pollutant <input type="checkbox"/> TAL <input type="checkbox"/> PCRA <input type="checkbox"/>	<input type="checkbox"/> CAM Metals TTLC <input type="checkbox"/> STLC <input type="checkbox"/>	<input type="checkbox"/> Lead 239.2 <input type="checkbox"/> 200.7 <input type="checkbox"/> 7420 <input type="checkbox"/> 7421 <input type="checkbox"/> 6010 <input type="checkbox"/>	<input type="checkbox"/> Organic Lead <input type="checkbox"/>	<input type="checkbox"/> Corrosivity <input type="checkbox"/> Flash Point <input type="checkbox"/> Reactivity <input type="checkbox"/>	TPH Mineral spirits	HOLD
---	--	---	--	---	--	---	--	---	---	---	--	--	---	---	--	--	---	---	--	--	----------------------------	-------------

TAT: _____

Special Handling: _____

Priority (24 hr)
Expedited (48 hr)
7 Business Days
Other _____
Business Days

GTEL Contact: _____
Quote/Contract #: _____
Confirmation #: _____
PO #: _____

QA / QC LEVEL: _____
BLUE CLP OTHER _____

FAX

SPECIAL DETECTION LIMITS: _____

SPECIAL REPORTING REQUIREMENTS: _____

REMARKS: **3 of 4**

Lab Use Only Lot #: _____ Storage Location: _____

Work Order #: _____

CUSTODY RECORD

Relinquished by Sampler: [Signature]	Date: 7/9	Time: 4:00
Relinquished by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: 7/9/92	Time: 4:00

Received by: _____
Received by: _____
Received by Laboratory: [Signature]
Waybill #: _____

ANALYSIS REQUEST

Company Name: **GTI** Phone #: _____
 FAX #: _____
 Company Address: **4052 port chicago Hwy** Site location: **404 market st**
 Project Manager: **D Horner** Client Project ID: (#) **020501659**
 (NAME) **SAFETY KAREN OAKLAND**
 I attest that the proper field sampling procedures were used during the collection of these samples.
 Sampler Name (Print): **Greg MASON**

<input type="checkbox"/>	BTEX/602 <input type="checkbox"/> 8020 <input type="checkbox"/> with MTBE <input type="checkbox"/>	<input type="checkbox"/>	BTEX/Gas Hydrocarbons PID/FID <input type="checkbox"/> with MTBE <input type="checkbox"/>
<input type="checkbox"/>	Hydrocarbons GC/FID Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Screen <input type="checkbox"/>	<input type="checkbox"/>	Hydrocarbon Profile (SIMDIS) <input type="checkbox"/>
<input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> SM 503 <input type="checkbox"/>	<input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/> SM 503 <input type="checkbox"/>
<input type="checkbox"/>	EDB by 504 <input type="checkbox"/> DBCP by 504 <input type="checkbox"/>	<input type="checkbox"/>	EPA 503.1 <input type="checkbox"/> EPA 502.2 <input type="checkbox"/>
<input type="checkbox"/>	EPA 601 <input checked="" type="checkbox"/> EPA 8010 <input type="checkbox"/>	<input type="checkbox"/>	EPA 602 <input type="checkbox"/> EPA 8020 <input type="checkbox"/>
<input type="checkbox"/>	EPA 608 <input type="checkbox"/> 8080 <input type="checkbox"/> PCB only <input type="checkbox"/>	<input type="checkbox"/>	EPA 824/PPL <input type="checkbox"/> 8240/TAL <input type="checkbox"/> NBS (+15) <input type="checkbox"/>
<input type="checkbox"/>	EPA 825/PPL <input type="checkbox"/> 8270/TAL <input type="checkbox"/> NBS (+25) <input type="checkbox"/>	<input type="checkbox"/>	EPA 610 <input type="checkbox"/> 8310 <input type="checkbox"/>
<input type="checkbox"/>	EP TOX Metals <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/>	<input type="checkbox"/>	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pest <input type="checkbox"/> Herb <input type="checkbox"/>
<input type="checkbox"/>	EPA Metals - Priority Pollutant <input type="checkbox"/> TAL <input type="checkbox"/> RCRA <input type="checkbox"/>	<input type="checkbox"/>	CAM Metals TTLC <input type="checkbox"/> STLC <input type="checkbox"/>
<input type="checkbox"/>	Lead 239.2 <input type="checkbox"/> 200.7 <input type="checkbox"/> 7420 <input type="checkbox"/> 7421 <input type="checkbox"/> 6010 <input type="checkbox"/>	<input type="checkbox"/>	Organic Lead <input type="checkbox"/>
<input type="checkbox"/>	Corrosivity <input type="checkbox"/> Flash Point <input type="checkbox"/> Reactivity <input type="checkbox"/>	X TPH MINERAL SPIRITS WASTES	

Field Sample ID	GTEL Lab # (Lab use only)	# Containers	Matrix						Method Preserved				Sampling			
			WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	UNPRESERVED	OTHER (SPECIFY)	DATE	TIME
MW-10		2	X						X						7/9	
MW-10	4 XS	2	X							X					7/9	

TAT: Priority (24 hr) Expedited (48 hr) 7 Business Days Other _____ Business Days

Special Handling: GTEL Contact _____ Quote/Contract # _____ Confirmation # _____ PO # _____

SPECIAL DETECTION LIMITS: _____

SPECIAL REPORTING REQUIREMENTS: _____ FAX

REMARKS: **4 of 4**

Lab Use Only Lot # _____ Storage Location: _____

Work Order # _____

CUSTODY RECORD

Relinquished by Sampler: *[Signature]* Date: **7/9** Time: **4:00** Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: **7/9/92** Time: **4:00** Received by Laboratory: *[Signature]* Waybill # _____