SECOR
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QUARTERLY PROGRESS REPORT
SEPTEMBER – NOVEMBER 1999
SAFETY-KLEEN SYSTEMS, INC. SERVICE CENTER
400 MARKET STREET
OAKLAND, CALIFORNIA
EPA ID NO. CAD053044053

SECOR Job No. 007.03788

12-21-99

Submitted By:
SECOR International Incorporated
1390 Willow Pass Road, Suite 360
Concord, CA 94520
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Prepared For:
Sara Brothers
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5219 Guadalupe Trail, NW
Albuquerque, New Mexico 87107
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December 21, 1999

Prepared by:

Nyree Melancon

Nyree Melancon
Assistant Geologist

REGISTERED GEOLOGIST
THOMAS W. CROSBY
NO. HG 257
CERTIFIED HYDROGEOLOGIST
EXPIRES 5/21/01
STATE OF CALIFORNIA

Reviewed by:

Thomas W. Crosby

Thomas W. Crosby, C.Hg # 257
Principal Engineering Geologist

Greg D. Hoehn

Greg D. Hoehn
Principal Geologist

safety-kleen

December 13, 1999

Via Certified Mail No. Z 264 569 944

Mr. Robert M. Senga, Unit Chief
California Environmental Protection Agency
Department of Toxic Substances Control
Southern California Region
5796 Corporate Avenue
Cypress, California 90630

Re: **Quarterly Progress Report**
September through November 1999
Safety-Kleen Systems, Inc., Service Center
400 Market Street
Oakland, California

Dear Mr. Senga:

Enclosed are three copies of the Quarterly Progress Report which summarizes the groundwater monitoring and vapor extraction activities conducted at the above-referenced facility. This report covers the period of September through November 1999. Safety-Kleen Systems, Inc. (Safety-Kleen) is following the modified groundwater sampling schedule as described in the letter submitted on October 8, 1998, and as modified and approved by Alameda County Environmental Health Services in a response letter dated November 17, 1998, with the exception that monitoring well MW-9 continue to be sampled quarterly. As requested by Alameda County, Safety-Kleen will sample monitoring well MW-9 quarterly as long as no sheen or measurable product is present in the well.

Additional groundwater sampling was performed this quarter to provide background water quality data, prior to implementing the *in-situ* chemical oxidation pilot study. The Pilot study was implemented on November 1, 1999. If you have any questions or require any additional information, please contact me at (505) 888-3952.

Sincerely,

for Sara C. Brothers, CPG
Senior Project Manager - Remediation
Safety-Kleen Systems, Inc.

Enclosure

cc: Steven LuQuire, Safety-Kleen
Heather Collins, Safety-Kleen
Branch Environmental File (999)
Larry Seto, Alameda County Environmental Health Services
Loretta Barsamian, California Regional Water Quality Control Board
Greg Hoehn, SECOR International Incorporated

99 DEC 22 PM 4:13

ENVIRONMENTAL PROTECTION

I:\SAFETY~1\OAKLAND\08\4Q99\OAKLAND8.L17
December 8, 1999
SECOR Job No. 007.03788

5219 Guadalupe Trail, NW Albuquerque, NM 87107 Phone 505/341-3866 FAX 505/341-1172

TABLE OF CONTENTS

1.0 INTRODUCTION 1-1

2.0 PROJECT BACKGROUND INFORMATION 2-1
2.1 Regulatory Status 2-1

3.0 SCOPE-OF-WORK 3-1
3.1 Soil Vapor Extraction System 3-1
3.2 Groundwater Monitoring and Sampling 3-1
3.3 In-Situ Chemical Oxidation Pilot Study 3-2

4.0 RESULTS 4-1
4.1 Soil Vapor Extraction System 4-1
4.2 Groundwater Elevations 4-1
4.3 Groundwater Conditions 4-1

5.0 ACTIVITIES SCHEDULED FOR DECEMBER 1999 – FEBRUARY 2000 ... 5-1

6.0 CERTIFICATION STATEMENT 6-1

LIST OF FIGURES

FIGURE 1	Site Location Map
FIGURE 2	Site Plan
FIGURE 3	Soil Vapor Extraction System Layout
FIGURE 4	Potentiometric Surface Map – October 8, 1999
FIGURE 5	Chemical Distribution in Groundwater – October 8, 1999

LIST OF TABLES

TABLE 1	Soil Vapor Extraction System Monitoring Data
TABLE 2	Summary of Soil Vapor Analytical Results
TABLE 3	Soil Vapor Extraction System Mineral Spirits Removal
TABLE 4	Groundwater Monitoring Data – October 8,1999
TABLE 5	Historical Summary of Groundwater Elevations
TABLE 6	Summary of Groundwater Analytical Results

LIST OF APPENDICES

APPENDIX A	Field Data Sheet
APPENDIX B	Laboratory Reports – Soil Vapor Extraction System Samples
APPENDIX C	Laboratory Reports – Groundwater Samples

1.0 INTRODUCTION

This Quarterly Progress Report has been prepared in accordance with the Safety-Kleen Systems, Inc. (Safety-Kleen) Hazardous Waste Facility Permit's reporting requirements. This report presents the results of groundwater monitoring and soil vapor extraction (SVE) system monitoring and sampling for the quarter of September through November 1999 at the Safety-Kleen Service Center located at 400 Market Street in Oakland, California (Figures 1 and 2). During this reporting period, the *in situ* chemical oxidation pilot study was implemented in accordance with the procedures detailed in the "In-Situ Chemical Oxidation Pilot Study Work Plan," dated March 8, 1999. The California Regional Water Quality Control Board - San Francisco Bay Region (RWQCB), verbally approved the pilot study on September 30, 1999, and SECOR documented the conversation in a letter dated October 5, 1999.

2.0 PROJECT BACKGROUND INFORMATION

The Safety-Kleen Oakland Service Center is a local distribution center for Safety-Kleen products. Three single-walled underground storage tanks (USTs) were removed and replaced with two new 12,000-gallon double-walled tanks in June and July of 1990. Product and waste mineral spirits are currently stored in the two double-walled USTs at the site. One UST is used to consolidate waste mineral spirits prior to shipment to a Safety-Kleen Recycle Center and one UST is used for storage of product mineral spirits prior to distribution to Safety-Kleen customers.

During the single-walled tank removal, mineral spirits-impacted soil was excavated from the tank pit as allowable by site conditions. Additionally, a product recovery well and a vapor extraction system withdrawal network were installed in the tank pit area. Tank removal and excavation activities are documented in the Report of Underground Storage Tank Replacement Activities dated September 1990.

A product pumping system was installed in recovery well RW-1 to remove separate-phase product from the water table and began operation on January 19, 1993. The product pumping system was removed on November 20, 1995, and replaced with a passive hydrocarbon skimming device which is capable of removing product thickness within the well to a sheen. On August 5, 1998, the passive recovery skimmer was removed and oxygen releasing compound was suspended in RW-1 in an effort to enhance site remediation by oxidizing residual impacts in the vicinity of the USTS.

During the UST replacement program, underground piping was installed for use as a soil vapor extraction (SVE) network. The SVE system consists of seven horizontal vapor extraction perforated pipelines and a vapor extraction and treatment system. A system to extract and treat soil vapor utilizing regenerative polymer adsorption began full-scale operation on June 1, 1993. The SVE system was modified and restarted on November 28, 1995, utilizing the current granular activated carbon (GAC) treatment system. Figure 3 depicts the layout of the vapor extraction pipelines and the vapor treatment system.

2.1 Regulatory Status

The Safety-Kleen Oakland facility operates under a Hazardous Waste Facility Permit (Part B Permit; ID No. CAD053044053) which became effective on March 29, 1992. A RCRA Facility Assessment (RFA) performed by the Department of Toxic Substances Control (DTSC) identified three solid waste management units (SWMUs) and one area of concern (AOC) at the facility. The results of the RFA were transmitted in the RFA Report dated June 1993. The Corrective Action Module of the Part B Permit (Section V) specified the need to submit a RCRA Facility Investigation (RFI) Work Plan to assess impacts related to the three SWMUs and the AOC. The RFI Work Plan was submitted on February 1, 1996. The DTSC approved the RFI Work Plan in correspondence dated February 23, 1996. The RFI Work Plan summarized site characterization work conducted at the site to February 1996 for the AOC and SWMUs identified in the RFA.

Subsequent to approval of the RFI Work Plan, an RFI Report was submitted to the DTSC on March 27, 1996, and was approved by that agency in correspondence dated May 20, 1996. The RFI Report states that the extent of total petroleum hydrocarbons as mineral spirits (TPHms) and volatile organic compound (VOC) impact at the facility is well defined and that the site characterization activities have adequately assessed the subsurface in the vicinity of the USTs and the return and fill shelter. The investigations have determined that soil impact is present

immediately adjacent to the UST pit and has migrated along the capillary fringe as far as monitoring well MW-8 (see Figure 2).

In a letter dated September 20, 1996, the DTSC requested that Safety-Kleen prepare a Corrective Measures (CM) Report for the Oakland facility. Safety-Kleen submitted the CM Report on December 2, 1996. The purpose of the CM Report is to: (1) document the corrective measures which have been taken at the site to date, (2) evaluate the effectiveness of the corrective measures currently in use, and (3) provide an assessment of potential alternative methods. The CM Report is pending agency review.

Safety-Kleen is following the modified groundwater sampling schedule as described in the letter submitted on October 8, 1998, and as modified and approved by Alameda County Environmental Health Services in a response letter dated November 17, 1998. With the exception that monitoring well MW-9 continue to be sampled quarterly if no sheen or product is present in the well, the modified groundwater sampling schedule is to sample six wells semi-annually, all wells annually, and continue to collect depth-to-groundwater data quarterly.

On March 8, 1999, an "*In Situ* Chemical Oxidation Pilot Study Work Plan (Work Plan)" was submitted to the California Regional Water Quality Control Board - San Francisco Bay Region (RWQCB) and to Alameda County. The *in situ* chemical oxidation pilot study was implemented on November 1, 1999, and is ongoing.

3.0 SCOPE-OF-WORK

In order to provide background data prior to implementing the *in-situ* chemical oxidation pilot study, as part of this semi-annual event, groundwater samples were collected for analytical testing from 10 monitoring wells and the recovery well. SVE activities conducted during this quarter consisted of the pulsed operation and maintenance of the SVE system. Groundwater monitoring conducted during this quarter consisted of measuring depth-to-water in 11 groundwater monitoring wells and 1 recovery well on October 8, 1999. On November 1, 1999, the *in situ* chemical oxidation pilot study was implemented. The following sections provide a description of the activities conducted this report period.

3.1 Soil Vapor Extraction System

The SVE system consists of two 1,500-pound GAC vessels connected in series to a manifold attached to seven horizontal vapor extraction perforated pipelines (see Figure 3). The SVE system operated in approximately two-week cycles this quarter in an attempt to improve removal efficiency. While the SVE system is operating, monitoring occurs biweekly and consists of measuring influent and effluent vapor concentrations using a photo-ionization detector (PID) or a flame-ionization detector (FID). The results of the SVE system operation is presented in Section 4.1 and the monitoring data are summarized in Table 1. SVE system samples were collected on October 19, 1999 for laboratory analysis at the influent and system effluent points. The results are discussed in Section 4.1 and presented on Table 2. The SVE system was shut off after sampling on October 19, 1999 and will remain off throughout the *in-situ* chemical oxidation pilot study.

3.2 Groundwater Monitoring and Sampling

On October 8, 1999, all monitoring wells were monitored for depth-to-water, and groundwater samples were collected from monitoring wells MW-1 through MW-6, MW-8, MW-9, MW-12, MW-13, and RW-1 for laboratory analysis. Monitoring wells MW-7 and MW-10 have been abandoned. Monitoring well MW-11 can no longer be sampled because tree roots have grown through the well casing and are obstructing the well. An equipment blank collected from the decontaminated pump was analyzed for quality assurance and quality control (QA/QC) purposes.

All accessible monitoring wells were monitored for depth-to-water using a water-level indicator calibrated to 0.01-foot. The depth-to-water measurements were used with well survey data to prepare a groundwater potentiometric surface map (Figure 4). Prior to collecting groundwater samples, the wells were purged using a low-flow submersible pump. In-line water quality indicator parameters were continuously monitored and water levels were taken during purging in order to adjust the flow rate for minimal drawdown. Samples were collected after pH, temperature, conductivity, ORP, and dissolved oxygen had stabilized. The samples were placed into laboratory supplied sample containers, labeled, placed on ice in an insulated cooler, and logged onto the chain-of-custody manifests. Field data sheets that include depth-to-water measurements and well purge data are included in Appendix A.

The groundwater samples were delivered to a state-certified laboratory for analysis under chain-of-custody documentation. The groundwater samples were analyzed for the presence of TPHms by EPA Method 8015 (modified) and for VOCs by EPA Method 8260. Additionally the samples were analyzed for total manganese and total chloride for background data, prior to implementing the chemical oxidation pilot study.

Prior to use and between each well, all non-single-use equipment was decontaminated by double-washing with a laboratory grade detergent in clean water and triple-rinsed using deionized water. Purge water and decontamination water generated during well purging and sampling was placed in the waste mineral spirits UST pending transport for treatment at a Safety-Kleen recycle facility.

3.3 In-Situ Chemical Oxidation Pilot Study

On November 1, 1999, the *in-situ* chemical oxidation pilot study was implemented. The pilot study is being performed in accordance with the "*In-Situ* Chemical Oxidation Pilot Study Work Plan" dated March 8, 1999. The injection of potassium permanganate ($KMnO_4$) and subsequent monitoring was verbally approved by the RWQCB on September 30, 1999 and documented in a SECOR letter dated October 5, 1999. The study was implemented by injecting 440 pounds of $KMnO_4$ in solution (approximately 1000 gallons total) into recovery well RW-1. Groundwater characteristics including oxidation reduction potential, dissolved oxygen, pH, and electrical conductivity will be monitored in the recovery well and nearby monitoring wells to evaluate the effectiveness of the pilot study. Data will be reported in detail at the conclusion of the study.

4.0 RESULTS

4.1 Soil Vapor Extraction System

The results of SVE system monitoring conducted on September 13, 1999 through October 19, 1999 are summarized on Table 1, including data on the system flow rate and PID measurements from the SVE system vapor influent, the vapor effluent after each carbon adsorption vessel, and the system final vapor effluent. The SVE system has continued to meet the Bay Area Air Quality Management District (BAAQMD) permit limits of 10 parts per million per unit volume (ppmv) in the system effluent, based on PID or FID readings. For this quarter, SVE system influent and effluent vapor samples were collected on October 19, 1999. The results of analytical testing are summarized on Table 2.

The analysis of the influent sample collected on October 19, 1999, detected TPHms at a concentration of 50 milligrams per cubic meter (mg/m^3) and detected toluene and tetrachloroethene (PCE) at concentrations of 0.18 mg/m^3 and 16 mg/m^3, respectively. The system effluent detected TPHms at a concentration of 11 mg/m^3 and toluene at 0.1 mg/m^3 for the same date.

In an attempt to improve system efficiency, Safety-Kleen continued operating the SVE system this quarter in a pulsed (on/off) mode of approximately two-week cycles. Table 3 summarizes the estimated SVE system mineral spirits removal to date. Data collected from initial start-up through October 19, 1999, indicate a total of approximately 5514 pounds of mineral spirits have been removed from the subsurface by the SVE system; with approximately 29 pounds removed from July 20 through October 19, 1999. Copies of SVE system analytical reports are included as Appendix B.

After vapor sampling was completed on October 19, 1999, the SVE system operation was discontinued. The system will remain off throughout the duration of the chemical oxidation pilot study.

4.2 Groundwater Elevations

Groundwater elevations and depth-to-water measurements for the October 8, 1999, event are presented in Table 4. The average water-table elevation on October 8, 1999 was 1.71 feet above mean sea level (amsl), an increase of 0.34 feet since the July 1999 event. A groundwater potentiometric surface map prepared with this data is presented as Figure 4.

As shown in Figure 4, the on- and off-site groundwater flow direction remains to the southwest, consistent with historic site data. The hydraulic gradient was 0.0038 feet/foot (ft/ft) across the site as measured between monitoring wells MW-4 and MW-2. The hydraulic gradient is consistent with previous data for the site. A summary of groundwater elevations since January 1993 is provided as Table 5.

4.3 Groundwater Conditions

A semi-annual and pre-pilot study background groundwater sampling event of monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-12, MW-13 and RW-1 was performed on October 8, 1999. Figure 5 depicts the chemical distribution in the groundwater

samples collected on October 8, 1999. A summary of analytical test results showing compounds detected since the April 1993 sampling event are presented in Table 6. Copies of the groundwater laboratory analytical reports are included in Appendix C.

The distribution and magnitude of the dissolved VOCs in groundwater are consistent with previous monitoring events with one exception. The compounds methyl-tert-butyl-ether; 1,3,5-trimethylbenzene; bromomethane; n-butylbenzene; sec-butylbenzene; carbon disulfide; iodomethane; isopropylbenzene; p-isopropylbenzene; and acetonitrile are new detections. The majority of these compounds were detected in wells MW-9 and RW-1, located within or on the edge of the tank cavity. These compounds were not included on laboratory reports for the site prior to April 1998 and recovery well RW-1 has not been sampled previously. Well RW-1 has historically had measurable product or a sheen present and is constructed within the tank cavity.

The duplicate sample (DUP-1) was collected from monitoring well MW-8. The compounds 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2- dichloroethene, and xylenes were detected in the duplicate sample at concentrations within 15% of the sample concentrations from monitoring well MW-8; however, the compounds 1,2-dichlorobenzene, 1,1,1-trichloroethane, and trichloroethene were within 40%. The compounds trans-1,2-dichloroethene, 1,2,4-trimethylbenzene, and vinyl chloride were detected in MW-8 but not detected in DUP-1, and naphthalene was detected in DUP-1 and not detected in MW-8. Acetone, toluene, and xylenes were detected at low concentrations (<5 µg/L) in the equipment blank (EB).

5.0 ACTIVITIES SCHEDULED FOR DECEMBER 1999 – FEBRUARY 2000

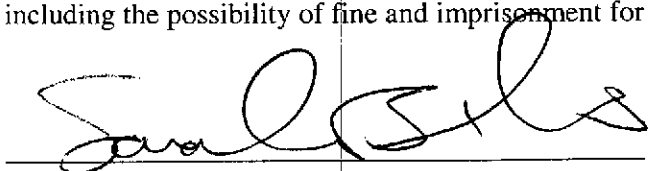
The following activities have been or are scheduled to be performed next quarter:

- Continue to monitor groundwater data in conjunction with the *in-situ* chemical oxidation pilot.

6.0 CERTIFICATION STATEMENT

Quarterly Progress Report
Safety-Kleen Systems, Inc., Service Center
400 Market Street
Oakland, California
CAD 053044053

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



12 | 21 | 99

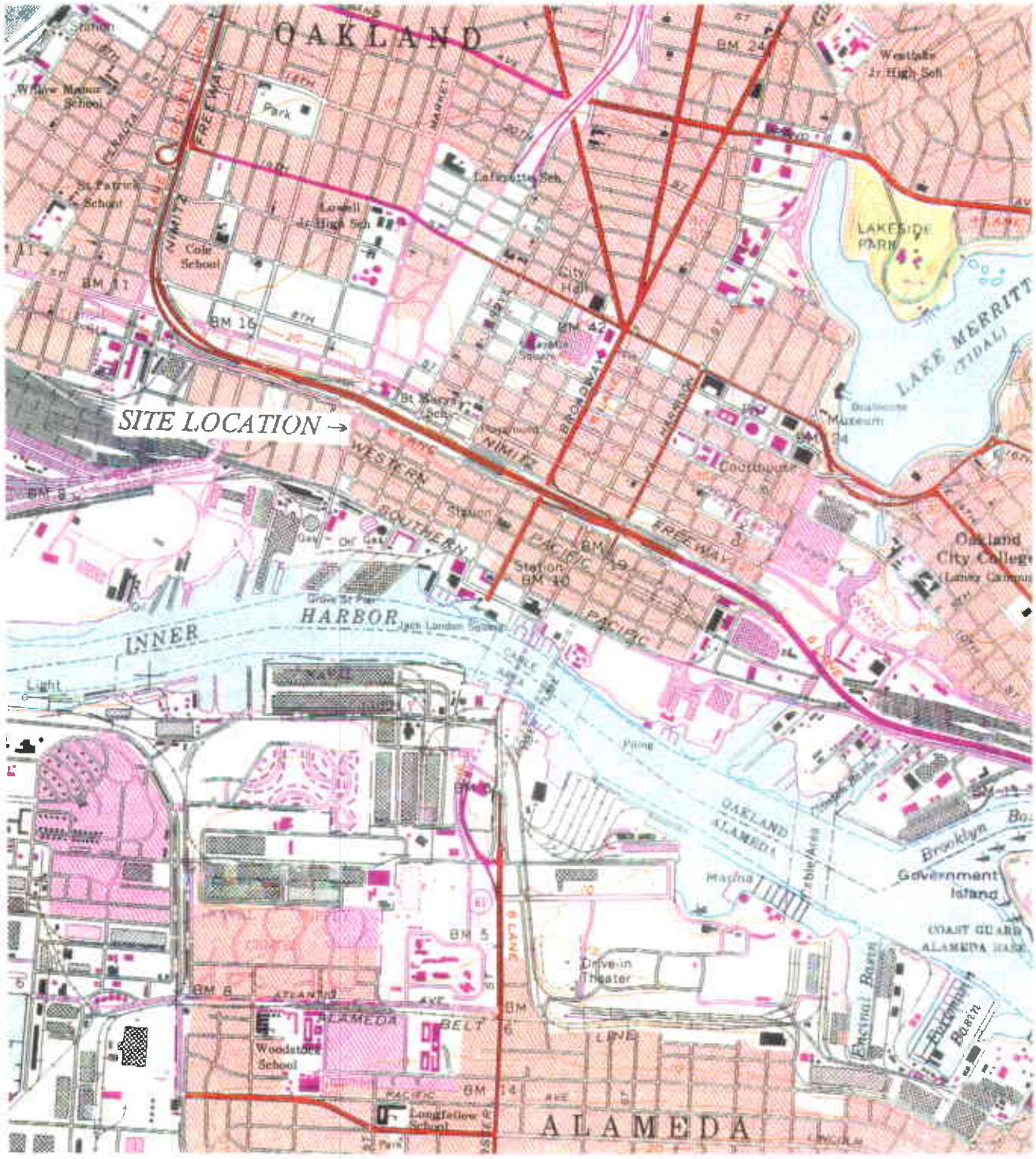
Sara C. Brothers, CPG
Safety-Kleen Systems, Inc.
Senior Project Manager - Remediation

Date

FIGURES

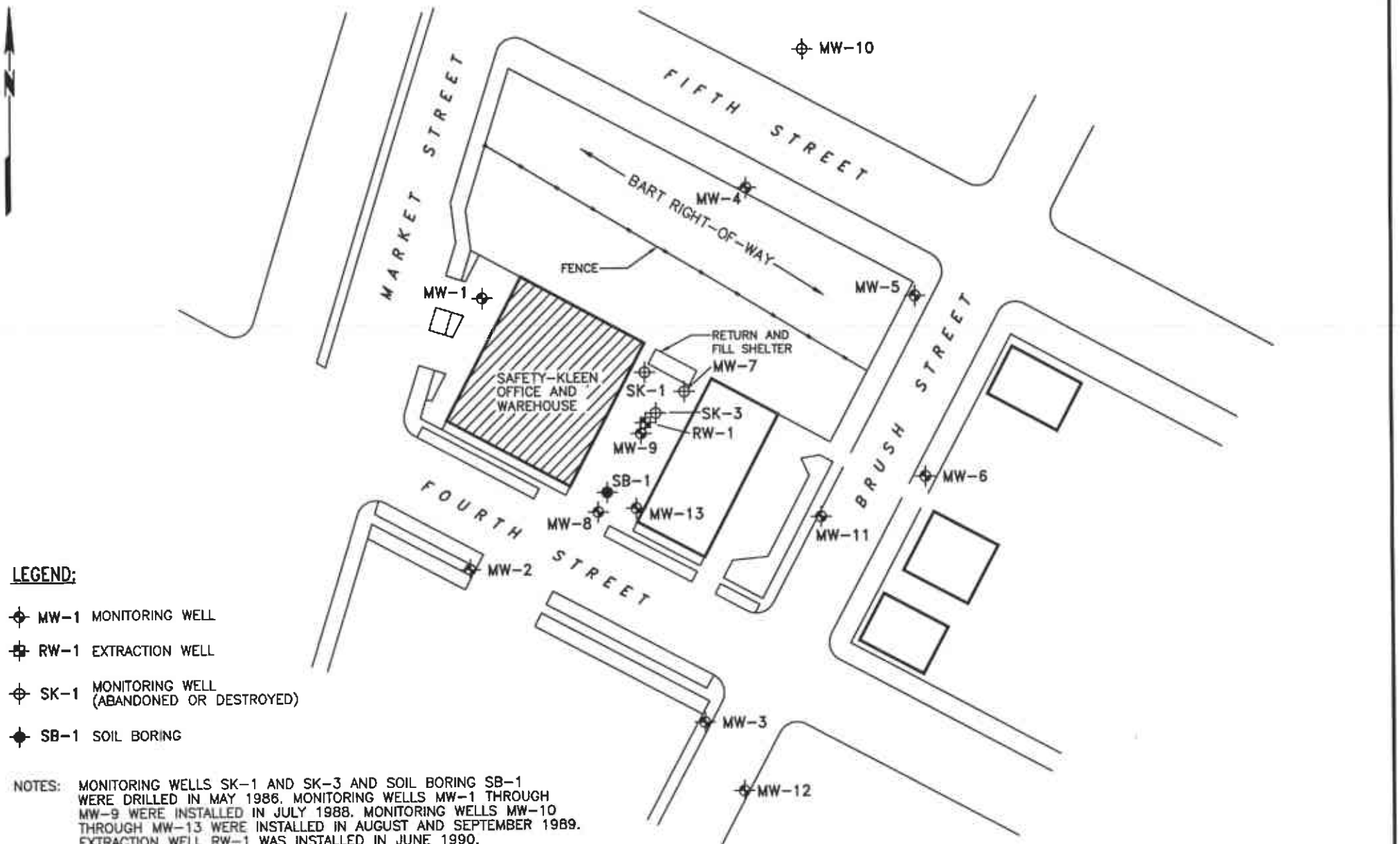
Quarterly Progress Report (July - September 1999)
SECOR International Incorporated
1390 Willow Pass Road, Suite 360
Concord, CA 94520
SECOR Job No. 007.50809.003
December 21, 1999

OAKLAND WEST QUADRANGLE
California
7.5 Minute Series (Topographic)



DRAFTED BY:	CHECKED BY:			
TS	GDH	PROJECT NO. 70005-009	FIGURE 1	*SECOR* 1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG. DATE: 04-05-94	REV. DATE: 06-15-95	Safety-Kleen Corp. 400 Market Street Oakland, California	Site Location Map	
FILE NAME: Oakland7.F01				

199509.061018 X:\S-KLEEN\OAKLAND\SITE



LEGEND:

- MW-1 MONITORING WELL
- RW-1 EXTRACTION WELL
- SK-1 MONITORING WELL (ABANDONED OR DESTROYED)
- SB-1 SOIL BORING

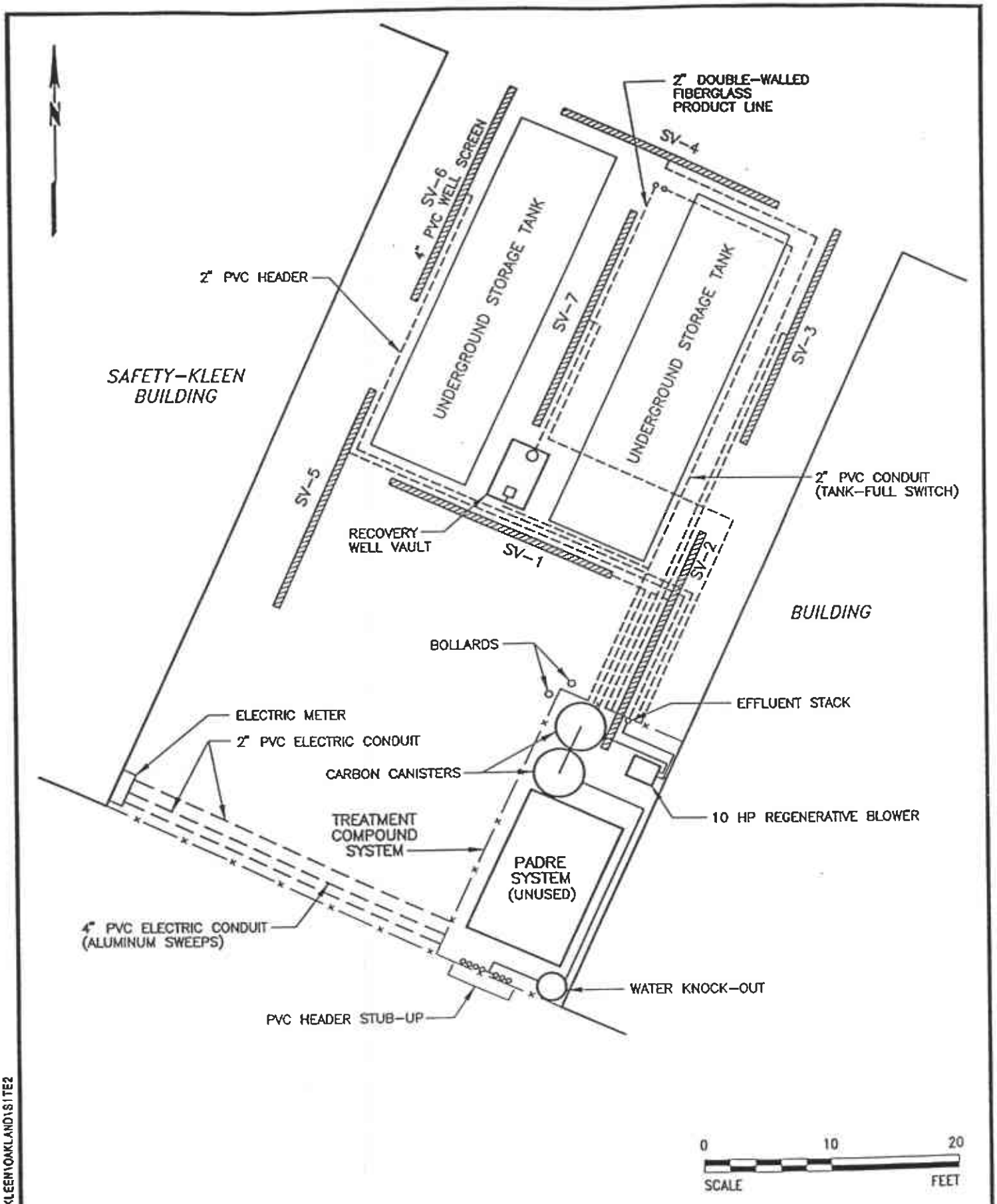
NOTES: MONITORING WELLS SK-1 AND SK-3 AND SOIL BORING SB-1 WERE DRILLED IN MAY 1986. MONITORING WELLS MW-1 THROUGH MW-9 WERE INSTALLED IN JULY 1988. MONITORING WELLS MW-10 THROUGH MW-13 WERE INSTALLED IN AUGUST AND SEPTEMBER 1989. EXTRACTION WELL RW-1 WAS INSTALLED IN JUNE 1990.

0 80 160
SCALE FEET

SECOR International Incorporated

DRAWN	TJZ
APPR	RH
DATE	1JUN99
JOB NO.	70005-009

FIGURE 2
SAFETY-KLEEN SERVICE CENTER
400 MARKET STREET
OAKLAND, CALIFORNIA
SITE PLAN



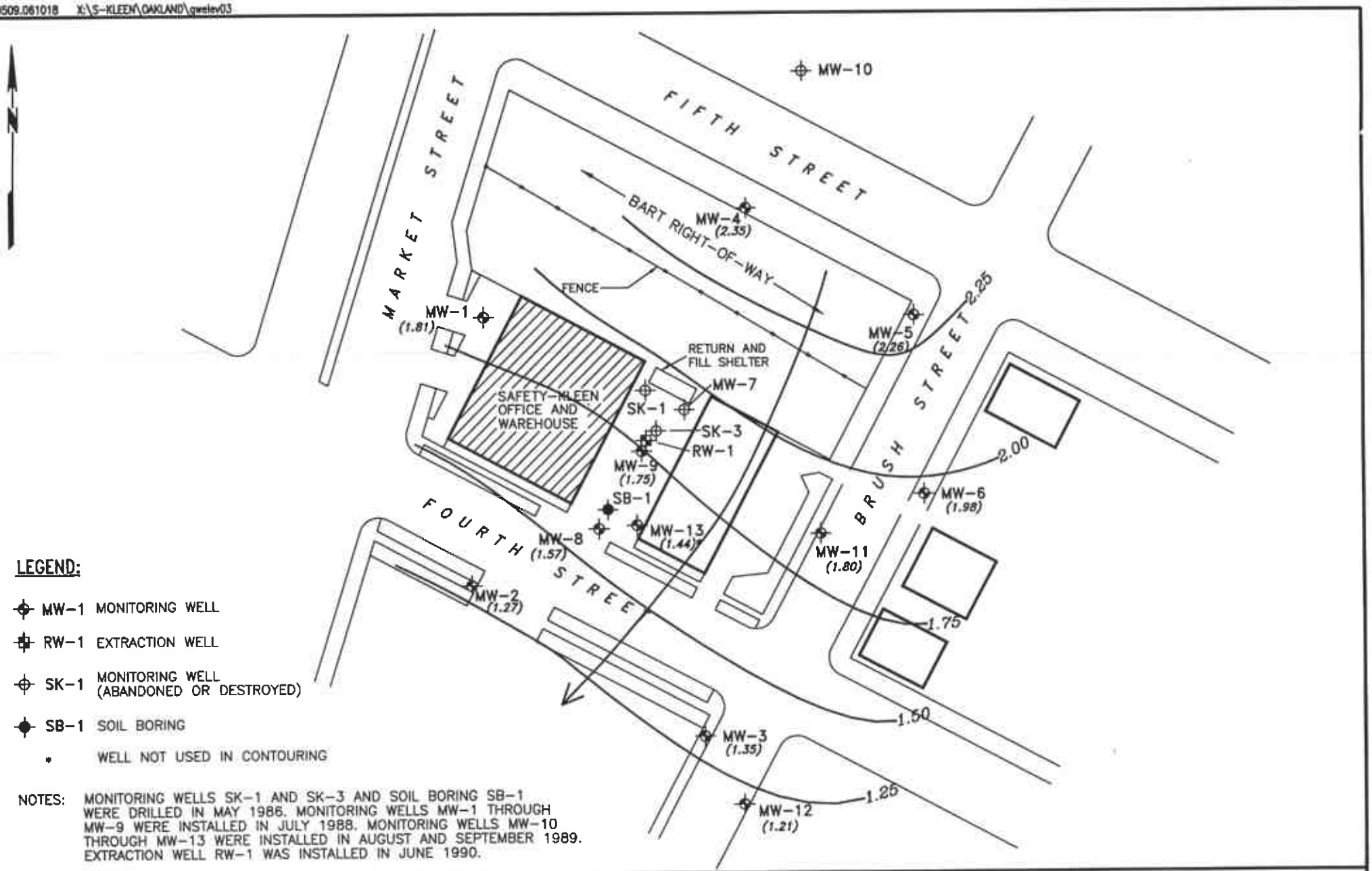
SECOR INTERNATIONAL INCORPORATED	
DRAWN	CCR
APPR	GH
DATE	08DEC95
JOB NO.	70005-009

FIGURE 3
SAFETY-KLEEN SERVICE CENTER
400 MARKET STREET
OAKLAND, CALIFORNIA

SOIL VAPOR EXTRACTION SYSTEM LAYOUT

199512.071928 X:\18-KLEEN\OAKLAND1\SITE2

99509.061018 X:\S-KLEEN\OAKLAND\qwelev03



LEGEND:

- MW-1 MONITORING WELL
- RW-1 EXTRACTION WELL
- SK-1 MONITORING WELL (ABANDONED OR DESTROYED)
- SB-1 SOIL BORING
- * WELL NOT USED IN CONTOURING

NOTES: MONITORING WELLS SK-1 AND SK-3 AND SOIL BORING SB-1 WERE DRILLED IN MAY 1986. MONITORING WELLS MW-1 THROUGH MW-9 WERE INSTALLED IN JULY 1988. MONITORING WELLS MW-10 THROUGH MW-13 WERE INSTALLED IN AUGUST AND SEPTEMBER 1989. EXTRACTION WELL RW-1 WAS INSTALLED IN JUNE 1990.

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SCALE FEET

SECOR International Incorporated

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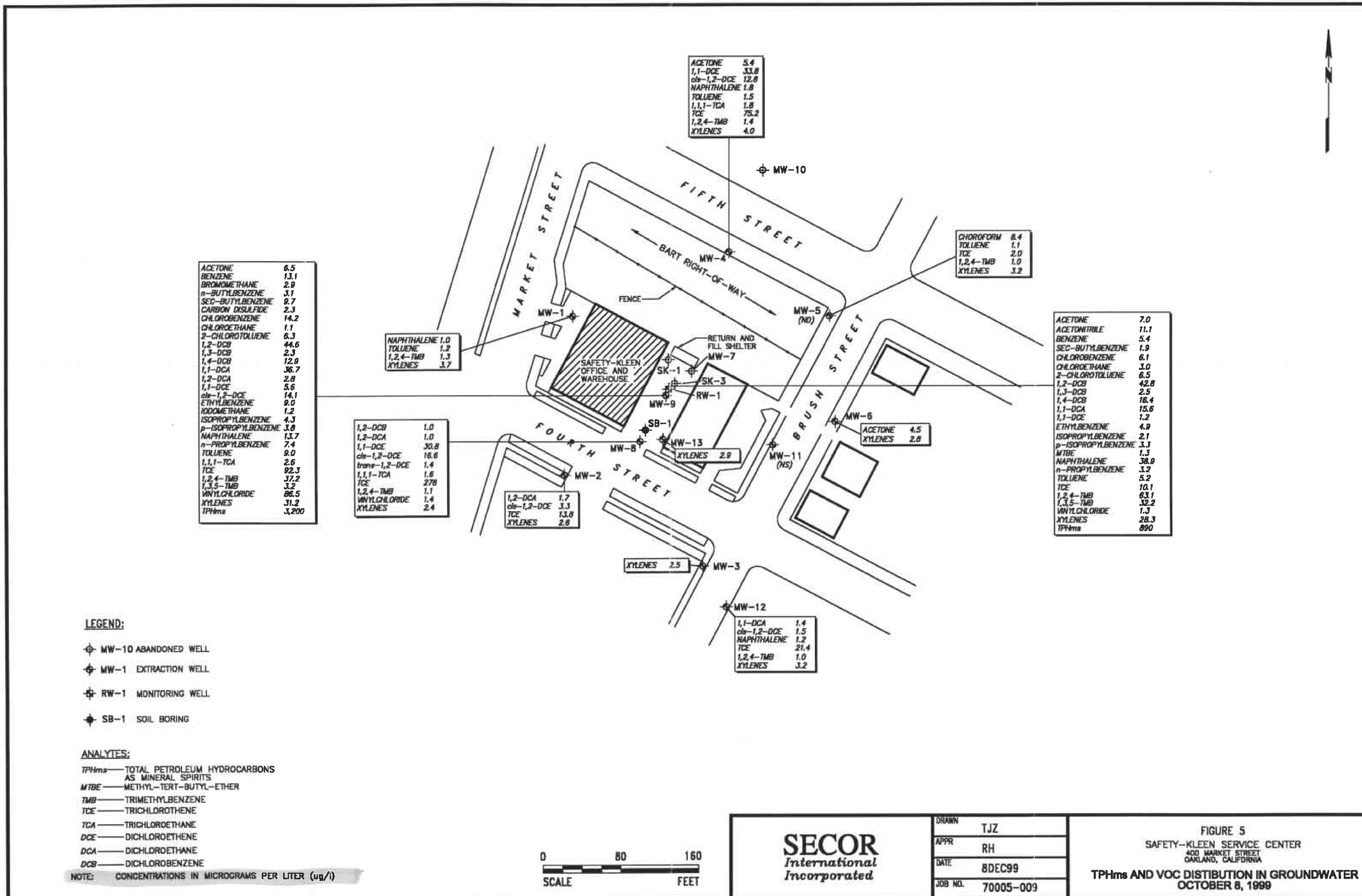
DATE	8DEC99
JOB NO.	70005-009

FIGURE 4
SAFETY-KLEEN SERVICE CENTER
400 MARKET STREET
OAKLAND, CALIFORNIA
POTENTIOMETRIC SURFACE MAP
OCTOBER 8, 1999



N
MW-10
FIFTH STREET
MARKET STREET
FOURTH STREET
BRUSH STREET
BART RIGHT-OF-WAY
FENCE
SAFETY-KLEEN OFFICE AND WAREHOUSE
RETURN AND FILL SHELTER
MW-1
MW-2
MW-3
MW-4
MW-5 (ND)
MW-6
MW-7
MW-8
MW-9
MW-11 (NS)
MW-12
MW-13
SK-1
SK-3
RW-1
SB-1
ACETONE 5.4
1,1-DCE 33.8
cis-1,2-DCE 12.8
NAPHTHALENE 1.8
TOLUENE 1.5
1,1,1-TCA 1.8
TCE 75.2
1,2,4-TMB 1.4
XYLENES 4.0
CHOROFORM 8.4
TOLUENE 1.1
TCE 2.0
1,2,4-TMB 1.0
XYLENES 3.2
ACETONE 6.5
BENZENE 13.1
BROMOMETHANE 2.9
n-BUTYLBENZENE 3.1
SEC-BUTYLBENZENE 8.7
CARBON DISULFIDE 2.3
CHLOROBENZENE 14.2
CHLOROETHANE 1.1
2-CHLOROTOLUENE 6.3
1,2-DCB 44.6
1,3-DCB 2.3
1,4-DCB 12.9
1,1-DCA 36.7
1,2-DCA 2.8
1,1-DCE 5.6
cis-1,2-DCE 14.1
ETHYLBENZENE 9.0
IODOMETHANE 1.2
ISOPROPYLBENZENE 4.3
p-ISOPROPYLBENZENE 3.8
NAPHTHALENE 13.7
n-PROPYLBENZENE 7.4
TOLUENE 9.0
1,1,1-TCA 2.6
TCE 92.3
1,2,4-TMB 37.2
1,3,5-TMB 3.2
VINYLCHLORIDE 86.5
XYLENES 31.2
TPHms 3,200
NAPHTHALENE 1.0
TOLUENE 1.2
1,2,4-TMB 1.3
XYLENES 3.7
1,2-DCB 1.0
1,2-DCA 1.0
1,1-DCE 30.8
cis-1,2-DCE 16.6
trans-1,2-DCE 1.4
1,1,1-TCA 1.6
TCE 278
1,2,4-TMB 1.1
VINYLCHLORIDE 1.4
XYLENES 2.4
1,2-DCA 1.7
cis-1,2-DCE 3.3
TCE 13.8
XYLENES 2.6
XYLENES 2.9
ACETONE 4.5
XYLENES 2.6
ACETONE 7.0
ACETONITRILE 11.1
BENZENE 5.4
SEC-BUTYLBENZENE 1.9
CHLOROBENZENE 6.1
CHLOROETHANE 3.0
2-CHLOROTOLUENE 6.5
1,2-DCB 42.8
1,3-DCB 2.5
1,4-DCB 16.4
1,1-DCA 15.6
1,1-DCE 1.2
ETHYLBENZENE 4.9
ISOPROPYLBENZENE 2.1
p-ISOPROPYLBENZENE 3.3
MTBE 1.3
NAPHTHALENE 38.9
n-PROPYLBENZENE 3.2
TOLUENE 5.2
TCE 10.1
1,2,4-TMB 63.1
1,3,5-TMB 32.2
VINYLCHLORIDE 1.3
XYLENES 28.3
TPHms 890
XYLENES 2.5
1,1-DCA 1.4
cis-1,2-DCE 1.5
NAPHTHALENE 1.2
TCE 21.4
1,2,4-TMB 1.0
XYLENES 3.2
LEGEND:
MW-10 ABANDONED WELL
MW-1 EXTRACTION WELL
RW-1 MONITORING WELL
SB-1 SOIL BORING
ANALYTES:
TPHms—TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS
MTBE—METHYL-TERT-BUTYL-ETHER
TMB—TRIMETHYLBENZENE
TCE—TRICHLOROTHENE
TCA—TRICHLOROETHANE
DCE—DICHLOROETHENE
DCA—DICHLOROETHANE
DCB—DICHLOROBENZENE
NOTE: CONCENTRATIONS IN MICROGRAMS PER LITER (ug/l)
0 80 160
SCALE FEET
SECOR International Incorporated
DRAWN TJZ
APPR RH
DATE 8DEC99
JOB NO. 70005-009
FIGURE 5
SAFETY-KLEEN SERVICE CENTER
400 MARKET STREET
OAKLAND, CALIFORNIA
TPHms AND VOC DISTIBUTION IN GROUNDWATER
OCTOBER 8, 1999

TABLES

Quarterly Progress Report (July - September 1999)
SECOR International Incorporated
1390 Willow Pass Road, Suite 360
Concord, CA 94520
SECOR Job No. 007.50809.003
December 21, 1999

Table 1
Soil Vapor Extraction System Monitoring Data

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Date	Elapsed Time* (hours)	Well Extraction Vacuum (inches H20)	KO Vacuum (inches H20)	Extraction Flow Rate (ft/min)	(scfm)	System Influent (PID/FID units)	#1 Carbon Effluent (PID/FID units)	#2 Carbon Effluent (PID/FID units)	System Effluent (PID/FID units)	Notes
12/08/95	363	6.5	22	5000	107	413	3	5	6	* System restarted using carbon adsorption on 11/28/95.
12/21/95	677	6	20	5000	107	80	36	1	1	Influent and Effluent samples collected
01/09/96	1134	9	22	5000	106	169	42	3	2	Influent and Effluent samples collected
01/24/95	1489	5.5	17	2200	47	43	43	24	6	
02/06/96	1803	5	16	6000	129	63	61	33	16	Influent and Effluent samples collected
02/21/96	2158	8	20	5500	117	60	48	38	8	
03/08/96	2540	10	23	5000	106	184	52	45	16	Influent and Effluent samples collected
03/20/96	2635	12	23	5000	106	430	362	311	22	
04/03/96	2906	12	25	5000	106	290	45	32	2	FID used, Influent and Effluent samples collected, Carbon changed.
04/18/96	3268	11	24	5000	106	500	30	9	3	FID used.
05/02/96	3594	NM	24	5000	109	109	45	0	0	Influent and Effluent samples collected
05/16/96	3934	NM	23	5000	109	117	151	3	1	
05/31/96	4289	0.15	25	5000	109	54	61	1	0	Influent and Effluent samples collected
07/01/96	5039	11	23	5000	106	325	150	75	37	Influent and Effluent samples collected
07/17/96	5422	10	24	5000	106	159	160	163	33	System shut down for carbon replacement
08/20/96	5424	7	17	3200	68	300	0	0	0	System restarted with new carbon
08/22/96	5470	7	17	3000	64	300	1	1	0	Influent and Effluent samples collected
09/03/96	5760	0.15	16	3500	76	131	0	0	0	
09/26/96	6316	8	15	3550	76	165	30	1	2	Influent and Effluent samples collected
10/03/96	6478	8	15	3000	64	231	70	42	13	
10/10/96	6645	8	15	3500	75	269	189	21	13	Influent and Effluent samples collected

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Soil Vapor Extraction System Monitoring Data

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Date	Elapsed Time* (hours)	Well Extraction Vacuum (inches H20)	KO Vacuum (inches H20)	Extraction Flow Rate (ft/min)	Extraction Flow Rate (scfm)	System Influent (PID/FID units)	#1 Carbon Effluent (PID/FID units)	#2 Carbon Effluent (PID/FID units)	System Effluent (PID/FID units)	Notes
10/22/96	6939	7	15	3000	64	480	442	2	1	Influent and Effluent samples collected
10/29/96	71040	8	16	4000	85	149	143	8	1	
11/13/96	7467	8	16	3500	75	120	90	40	8	Influent and Effluent samples collected
12/03/96	7944	0.19	25	5000	109	60	53	0	0	
12/18/96	8299	0.14	26	5500	120	51	55	5	5	Influent and Effluent samples collected
01/06/97	8684	24	38	4000	82	40	17	6	4	
01/17/97	8950	24	36	4000	82	147	153	83	7	Influent and Effluent samples collected
01/30/97	9259	24	37	3000	61	20	7	7	2	
02/10/97	9523	24	35	3500	72	192	306	111	4	Influent and Effluent samples collected
02/25/97	9887	22	34	3500	72	50	20	10	2	
03/07/97	10124	20	35	4000	83	40	9	5	2	Influent and Effluent samples collected
03/26/97	10587	22	35	3500	72	72	191	82	2	
04/10/97	10941	19	34	4000	83	15	33	4	3	
05/01/97	11440	23	30	3000	62	5	3	1	0	Influent and Effluent samples collected
05/14/97	11752	31	38	2000	40	19	17	9	0	
05/16/97	11798	NM	NM	NM	NM	NM	NM	NM	NM	System shutdown for carbon changeout
06/05/97	11798	20	30	8000	165	35	17	2	2	Carbon Changeout, Restart System, Influent and Effluent samples collected
06/17/97	12090	NM	30	8500	185	23	0	0	0	Shutdown system
06/30/97	12091	NM	29	4200	91	110	1	0	0	Restart system, Influent and Effluent samples collected
07/17/97	12496	NM	28	4800	104	6	0	0	0	Shutdown system
07/30/97	12497	NM	28	8000	174	19	0	0	0	Restart system, Influent and Effluent samples collected

Table 1
Soil Vapor Extraction System Monitoring Data

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Date	Elapsed Time* (hours)	Well Extraction Vacuum (inches H20)	KO Vacuum (inches H20)	Extraction Flow Rate (ft/min)	Extraction Flow Rate (scfm)	System Influent (PID/FID units)	#1 Carbon Effluent (PID/FID units)	#2 Carbon Effluent (PID/FID units)	System Effluent (PID/FID units)	Notes
08/13/97	12837	NM	27	8500	185	12	0	0	0	Shutdown system
08/28/97	12837	18	30	8000	166	35	2	1	0	Restart system, Influent and Effluent samples collected
09/10/97	13148	>1	29	8250	179	9	0	0	0	Shutdown system
09/24/97	13149	NM	27	4000	87	25	0	0	0	Restart system, Influent and Effluent samples collected
10/08/97	13488	NM	26	8000	174	9	0	0	0	Shutdown system
10/23/97	13488	16	29	8000	167	25	4	0	0	Restart system, Influent and Effluent samples collected
11/14/97	14018	NM	28	8000	174	68	0	0	0	Shutdown system
11/26/97	14020	10	29	8000	170	6	22	0	0	Restart system
12/11/97	14377	15	30	10000	210	0	0	0	0	Influent and Effluent samples collected, Shutdown system
12/22/97	14378	18	30	10000	208	20	1	1	1	Restart system, Influent and Effluent samples collected
01/06/98	14742	6.5	28	NM	-	2	0	0	0	Shutdown system
03/17/98	14743	58	42	10000	187	0	0	0	0	Restart system, Influent and Effluent samples collected
04/06/98	15222	24	30	10000	205	33	4	4	1	Shutdown system
04/28/98	15222	6.5	23	NM	-	17	2	2	0	Restart system, Influent and Effluent samples collected
05/19/98	15731	>1	43	NM	-	3	2	3	0	Shutdown system
05/28/98	15731	34	40	10000	199	4	1	0	0	Restart system, Influent and Effluent samples collected
06/12/98	16090	40	51	10000	196	3	3	2	0	Shutdown system
06/25/98	16091	7.5	9	NM	-	3	3	2	0	Restart system
07/10/98	16452	1.5	9	NM	-	3	0	0	0	Shutdown system
07/21/98	16453	1	8	NM	-	2	0	0	0	Restart system
08/05/98	16809	7	2.5	NM	-	3	0	0	0	Shutdown system

Table 1
Soil Vapor Extraction System Monitoring Data

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Date	Elapsed Time* (hours)	Well Extraction Vacuum (inches H20)	KO Vacuum (inches H20)	Extraction Flow Rate (ft/min)	(scfm)	System Influent (PID/FID units)	#1 Carbon Effluent (PID/FID units)	#2 Carbon Effluent (PID/FID units)	System Effluent (PID/FID units)	Notes
08/20/98	16809	30	30	10000	202	17	1	0	0	Restart system
09/10/98	17316	20	30	10000	207	10	4	2	0	System left running
10/02/98	17839	27	31	10000	203	1	1	0	0	Shutdown system
10/26/98	17839	22	32	10000	206	15	6	3	0	Restart system
11/11/98	18226	24	32	10000	205	5	2	1	1	Shutdown system
12/11/98	18226	28	35	10000	203	8	2	1	1	Restarted system
12/22/98	18491	26	35	10000	204	12	2	1	1	
01/05/99	18825	24	37	10000	205	1	1	1	1	Shutdown system
01/22/99	18827	28	40	10000	203	17	3	1	0	Restarted system
02/16/99	19423	36	47	10000	198	67	3	3	1	Shutdown system
03/03/99	19423	35	46	10000	199	8	1	1	0	Restarted system
03/12/99	19638	30	40	10000	202	1	1	0	0	Shutdown system
03/30/99	19640	30	38	10000	202	7	1	1	0	Restarted system
04/14/99	19998	28	35	10000	203	2	1	0	0	Shutdown system
04/27/99	19999	30	39	10000	202	1	1	0	0	Restarted system
05/13/99	20361	30	36	10000	202	2	1	1	0	Shutdown system
05/25/99	20361	51	56	10000	190	16	1	0	0	Restarted system
06/14/99	20840	55	64	10000	188	8	1	0	0	System shutdown
06/28/99	20840	56	63	10000	188	57	2	2	0	Restarted system
07/06/99	21033	20	35	10000	207	58	2	1	1	System shutdown
07/20/99	21033	28	35	10000	203	28	11	10	4	Restarted system
08/03/99	21033	18	33	10000	208	18	8	3	1	System shutdown - Hobb's meter inoperable

Table 1
Soil Vapor Extraction System Monitoring Data

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Date	Elapsed Time* (hours)	Well Extraction Vacuum (inches H20)	KO Vacuum (inches H20)	Extraction Flow Rate (ft/min)	Extraction Flow Rate (scfm)	System Influent (PID/FID units)	#1 Carbon Effluent (PID/FID units)	#2 Carbon Effluent (PID/FID units)	System Effluent (PID/FID units)	Notes
08/30/99	21034	27	35	10000	203	14	2	1	1	Restarted system
09/13/99	21368	20.5	43	10000	207	21	4	4	2	System shutdown
10/01/99	21369	18	33	10000	208	48	5	5	4	Restarted system
10/19/99	21802	30	32	10000	202	4	1	1	1	System shutdown for duration of the pilot study.

Notes:
ft/min = feet per minute
scfm = standard cubic feet per minute assuming ambient temperature and ideal gas
NM = not measured

Table 2
Summary of Soil Vapor Analytical Results
Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Sample ID	Date DRL/PQL	TPHms 10 mg/m³	Toluene 0.10 mg/m³	Ethylbenzene 0.10 mg/m³	Xylenes 0.30 mg/m³	1,1,1-TCA 0.10 mg/m³	PCA 0.10 mg/m³	PCE 0.10 mg/m³
INF	6/25/98	29	0.18	0.11	1	-	-	-
	7/21/98	95	-	-	0.5	-	-	-
	8/21/98	-	-	-	0.3	0.1	-	-
	11/11/98	100	-	-	-	-	-	-
	3/3/99	13	-	-	-	-	-	-
	5/25/99	50	-	-	-	-	0.2	-
	7/20/99	64	-	-	-	-	-	16
	10/19/99	50	0.18	-	-	-	-	0.1
EFF	6/25/98	-	-	-	0.49	-	-	-
	7/21/98	-	-	-	-	-	-	-
	8/21/98	-	-	-	0.32	-	-	-
	11/11/98	-	-	-	1	-	-	-
	3/3/99	-	-	-	-	-	-	-
	5/25/99	-	-	-	-	-	-	-
	7/20/99	27	-	-	-	-	-	2.5
	10/19/99	11	0.1	-	-	-	-	-

TPHms = total petroleum hydrocarbons as mineral spirits
TCA = trichloroethane
PCA = tetrachloroethane
DRL = detection reporting limit
PQL = practical quantitation limit
INF = system influent point
EFF = system effluent point
\- = Not Detected

Table 3
Soil Vapor Extraction System
Mineral Spirits Removal

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Sample Date	Elapsed Time (hours)	Run Time This Period (hours)	Extraction Flow Rate (scfm)	TPHms Influent (µg/L)	Removal Rate (lbs/day)	Cummulative TPHms Removed (lbs)	Notes
11/28/95		Carbon adsorbtion system start-up				1798	TPHms removed by prior system.
12/21/95	677	677	107	823	7.9	2020	
01/09/96	1134	457	106	1116	10.6	2221	
02/06/96	1803	669	129	999	11.5	2542	
03/08/96	2540	737	106	1821	17.2	3071	
04/03/96	2906	366	106	1116	10.6	3232	
05/02/96	3594	688	109	1586	15.4	3675	
05/31/96	4289	695	109	1234	12.0	4023	
07/01/96	5039	750	106	82	0.8	4047	
08/22/96	5470	431	64	500	2.9	4098	
09/26/96	6316	846	76	1300	8.8	4409	
10/10/96	6645	329	75	880	5.9	4490	
10/22/96	6939	294	64	670	3.8	4537	
11/13/96	7467	528	75	460	3.1	4604	
12/18/96	8299	833	120	220	2.4	4686	
01/17/97	8950	651	82	69	0.5	4700	
02/10/97	9523	573	72	98	0.6	4715	
03/07/97	10124	601	83	ND (<50)	0	4715	
05/01/97	11440	1316	62	ND (<50)	0	4715	
06/05/97	11798	358	165	910	13.4	4915	Began pulsing system.

Table 3
Soil Vapor Extraction System
Mineral Spirits Removal

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Sample Date	Elapsed Time (hours)	Run Time This Period (hours)	Extraction Flow Rate (scfm)	TPHms Influent (µg/L)	Removal Rate (lbs/day)	Cummulative TPHms Removed (lbs)	Notes
06/30/97	12091	293	91	550	4.5	4969	
07/30/97	12497	406	174	150	2.3	5009	
08/28/97	12837	340	166	550	8.2	5124	
09/24/97	13149	311	87	350	2.7	5160	
10/23/97	13488	340	167	220	3.3	5206	
12/11/97	14377	889	210	ND (<50)	0	5206	
12/22/97	14378	1	208	ND (<50)	0	5206	
03/17/98	14743	365	187	78	1.3	5226	
04/28/98	15222	479	214	70	1.3	5253	
05/28/98	15731	509	199	21	0.4	5261	
06/25/98	16091	360	*214*	29	0.6	5269	
07/21/98	16453	362	*217*	95	1.8	5297	
08/20/98	16809	356	202	13	0.2	5300	
11/11/98	18226	1417	205	100	1.8	5408	
03/03/99	19423	1197	199	13	0.2	5420	
05/25/99	20361	938	190	50	0.8	5453	
07/20/99	21033	672	203	64	1.2	5485	
10/19/99	21802	769	202	50	0.9	5514	

Notes:
scfm = cubic feet per minute
µg/L = micrograms per liter
lbs = pounds

Table 4
Groundwater Monitoring Data
October 8, 1999

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Well I.D.	TOC Elevation (ft msl)	DTW (ft)	DTP (ft)	PT (ft)	Adjusted Elevation (ft msl)
MW-1	7.99	6.18	-	-	1.81
MW-2	8.20	6.93	-		1.27
MW-3	6.66	5.31	-	-	1.35
MW-4	10.32	7.97	-	-	2.35
MW-5	10.28	8.02	-	-	2.26
MW-6	8.97	6.99	-	-	1.98
MW-7*	-	-	-	-	-
MW-8	7.80	6.23	-	-	1.57
MW-9	8.21	6.46	-	-	1.75
MW-10**	-	-	-	-	-
MW-11	7.91	6.11	-	-	1.80
MW-12	6.74	5.53	-	-	1.21
MW-13	8.08	6.64	-	-	1.44
RW-1	-	5.48	-	-	-

Notes:
* Well destroyed in May 1990.
** Well destroyed in July 1995.

TOC = Top-of-casing
DTW = Depth-to-water
DTP = Depth-to-product
PT = Product thickness
ft msl = Feet relative to mean sea level

Table 5
Historical Summary of Groundwater Elevations
(in feet relative to mean sea level)

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Date	Well Identification											
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13
01/20/93	1.29	1.00	0.86	1.57	1.48	1.27	1.08	1.15	1.73	1.16	0.44	0.58
04/20/93	1.09	0.51	0.38	1.52	1.42	1.08	0.74	0.95	1.85	0.90	0.10	0.40
07/20/93	0.27	-0.23	-0.27	0.68	0.62	0.37	-0.01	-0.68	0.99	0.20	-0.72	-0.15
10/20/93	-0.02	-0.51	-0.66	0.32	0.17	-0.12	-0.35	0.14	0.62	-0.22	-0.91	-0.57
01/19/94	-0.01	-0.52	-0.77	0.33	0.48	-0.10	-0.37	-0.49	0.60	-0.14	-1.05	-0.65
04/20/94	0.55	0.05	-0.09	0.85	0.74	0.46	0.22	0.33	-	0.34	-0.76	-0.09
07/19/94	0.25	-0.20	-0.31	0.62	0.55	0.23	-0.03	0.08	0.90	0.09	-0.70	-0.22
10/19/94	0.08	-0.33	-0.44	0.41	0.38	0.12	-0.15	0.01	-	0.01	-0.59	-0.33
01/04/95	1.95	1.53	1.64	2.41	2.49	2.24	1.79	1.85	-	2.06	1.44	1.33
04/10/95	3.09	2.46	2.49	3.71	3.73	3.42	2.79	2.95	-	3.18	2.22	1.98
07/11/95	2.04	1.53	1.53	2.54	2.50	2.26	1.76	1.93	-	2.01	1.33	1.53
10/12/95	1.38	0.94	1.01	1.81	1.27	1.56	1.15	1.32	-	1.42	0.94	1.06
01/09/96	1.82	1.40	0.64	2.21	2.21	2.04	1.61	1.54	-	1.85	-	1.51
04/02/96	2.81	2.40	2.46	3.33	3.36	3.17	2.58	2.51	-	2.91	2.24	2.38
07/01/96	2.16	1.70	1.75	2.67	2.63	2.35	1.90	1.93	-	2.18	-	1.84

Table 5
Historical Summary of Groundwater Elevations
(in feet relative to mean sea level)

Safety-Kleen Systems, Inc. Service Center
400 Market Street
Oakland, California

Date	Well Identification											
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13
11/01/96	1.09	0.70	0.75	1.47	1.47	1.18	0.90	0.86	-	-	-	0.78
01/17/97	2.89	2.39	2.58	3.48	3.52	3.34	2.70	2.57	-	-	-	2.50
04/10/97	2.43	1.89	1.99	2.92	2.86	2.53	2.18	2.19	-	2.45	1.71	1.99
07/17/97	1.70	1.19	1.25	2.15	2.12	1.86	1.44	1.29	-	-	1.12	1.35
10/08/97	1.40	0.94	0.97	1.79	1.76	1.51	1.16	1.35	-	-	0.84	1.06
01/12/98	3.02	2.99	3.12	3.45	3.49	3.34	2.89	2.63	-	3.15	2.50	2.48
04/13/98	3.92	3.20	3.43	4.77	4.50	4.17	3.63	3.91	-	3.91	3.08	3.37
07/21/98	2.79	2.15	2.13	3.37	3.37	3.05	2.50	2.71	-	2.85	2.21	2.35
10/12/98	2.28	1.68	1.79	2.97	2.90	2.55	2.04	1.47	-	2.33	1.72	1.93
01/22/99	2.30	1.78	2.06	2.81	2.82	2.51	2.10	1.88	-	2.41	1.71	1.76
04/14/99	3.15	2.49	2.78	3.75	3.75	3.49	2.86	3.01	-	3.24	2.33	2.59
07/06/99	2.21	1.64	1.76	2.72	2.72	2.40	1.94	1.41	-	2.24	1.71	1.81
10/08/99	1.81	1.27	1.35	2.35	2.26	1.98	1.57	1.75	-	1.80	1.21	1.44

Notes:
Groundwater elevations are in feet relative to mean sea-level datum.
- = Not measured

Table 6
Summary of Groundwater Analytical Results
Detected Compounds (Results in µg/L)

Safety-Kleen Service Center
400 Market Street
Oakland, California

Well No.	Date	TPHfuel	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	1,1-DCE	1,1-DCA	1,2-DCA	cis-1,2-DCE	trans-1,2-DCE	Chloroform	1,1,1-TCA	TCE	PCE	Chloro-benzene	Dichloro-propane	1,2-DCB	1,3-DCB	1,4-DCB	1,2,4-TMB	1,3,5-TMB	TCFM	Freon 12	n-Propyl-benzene	Naph-thalene	Chloro-ethane	2-Chloro-toluene	Chloro-toluene	Trichloro-propane	Acetone	Vinyl chloride	Bromo-methane	n-Butyl-benzene	sec-Butyl-Benzene	Carbon Disulfide	Iodo-methane	Isopropyl-benzene	p-Isopropyl-toluene	Aceto-nitrile
MCL		*NE*	*NE*	*1.0*	*150.0*	*700.0*	*1750.0*	*6.0*	*5.0*	*0.5*	*6.0*	*10.0*	*NE*	*200.0*	*5.0*	*5.0*	*70.0*	*5.0*	*600.0*	*NE*	*5*	*NE*	*NE*	*150.0*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*0.5*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
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	Oct-98	56.0	-	-	9.2	-	26.6	-	-	[redacted]	-	-	-	-	[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-	-	-	-
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	Oct-99	-	-	-	-	-	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	Apr-93	-	NA	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-93	-	NA	-	-	-	-	-	-	-	-	[redacted]	-	-	-	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Oct-93	* 400	NA	-	-	-	-	-	-	-	-	0.6	1.9	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-94	* 270	NA	-	-	-	-	-	-	-	-	1.1	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-94	* 760	NA	-	-	-	-	-	-	-	-	1.7	5.0	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-94	* 280	NA	-	-	-	-	-	-	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Oct-94	* 350	NA	-	-	-	-	-	-	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-95	-	NA	-	-	-	-	0.7	-	-	-	1.4	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA

Table 6
Summary of Groundwater Analytical Results
Detected Compounds (Results in µg/L)

Safety-Kleen Service Center
400 Market Street
Oakland, California

Well No.	Date	TPHms	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	1,1-DCE	1,1-DCA	1,2-DCA	cis-1,2-DCE	trans-1,2-DCE	Chloroform	1,1,1-TCA	TCE	PCE	Chloro-benzene	Dichloro-propane	1,2-DCB	1,3-DCB	1,4-DCB
MCL		NE	NE	1.0	150.0	700.0	1750.0	6.0	5.0	0.5	6.0	10.0	NE	200.0	5.0	5.0	70.0	5.0	600.0	NE	5
MW-4 (Continued)	Apr-95	-	NA	-	1.2	-	-	0.8	-	-	-	1.0	-	-	[illegible]	-	-	-	-	-	-
	Jul-95	-	NA	-	-	-	-	5.2	-	-	[illegible]	3.2	-	-	[illegible]	-	-	-	-	-	-
	Oct-95	-	NA	-	-	-	-	4	-	-	-	3	3	-	[illegible]	-	-	-	-	-	-
	Jan-96	-	NA	-	-	-	-	3	-	-	17	4	6	-	[illegible]	-	-	-	-	-	-
	Apr-96	-	NA	-	-	-	-	[illegible]	-	-	[illegible]	1.7	1.5	-	[illegible]	-	-	-	-	-	-
	Jul-96	-	NA	-	-	-	-	4.8	-	-	[illegible]	1.2	1.8	-	[illegible]	-	-	-	-	-	-
	Nov-96**	-	NA	-	-	-	-	5.1	-	-	5.1	-	1.6	1.1	[illegible]	-	1.2	-	-	-	-
	Nov-96	-	NA	-	-	-	-	5.0	-	-	[illegible]	1.2	1.8	-	[illegible]	-	-	-	-	-	-
	Jan-97**	-	NA	-	-	-	-	5.7	-	-	4.4	-	1.9	1.2	[illegible]	-	-	-	-	-	-
	Jan-97	-	NA	-	-	-	-	[illegible]	-	-	[illegible]	-	2.3	1.2	[illegible]	1.1	-	-	-	-	-
	Apr-97**	-	NA	-	-	-	-	5.6	-	-	[illegible]	-	1.5	1.4	[illegible]	-	-	-	-	-	-
	Apr-97	-	NA	-	-	-	-	5.7	-	-	[illegible]	-	1.4	-	[illegible]	-	-	-	-	-	-
	Jul-97**	-	NA	-	-	-	-	[illegible]	-	-	[illegible]	-	2.5	1.6	[illegible]	-	-	-	-	-	-
	Jul-97	-	NA	-	-	-	-	[illegible]	-	-	[illegible]	-	1.7	-	[illegible]	-	-	-	-	-	-
	Oct-97	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	-	-
	Jan-98	-	NA	-	-	-	-	[illegible]	-	-	[illegible]	-	1.0	-	[illegible]	-	-	-	-	-	-
	Apr-98	-	NA	-	-	-	-	-	-	-	2.0	-	-	-	[illegible]	-	-	-	-	-	-
	Jul-98	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	[illegible]	-	-	-	-	-	-
	Oct-98	-	-	-	5.1	-	9.0	[illegible]	-	-	[illegible]	-	-	-	[illegible]	-	-	-	-	-	-
	Apr-99	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	[illegible]	-	-	-	-	-	-
	Oct-99	-	-	-	1.5	-	4.0	[illegible]	-	-	[illegible]	-	-	1.8	[illegible]	-	-	-	-	-	-
MW-5	Apr-93	-	NA	-	-	-	-	1.5	-	-	-	-	-	4.0	-	-	-	-	-	-	-
	Jul-93	-	NA	-	-	-	-	0.6	-	-	-	-	-	6.0	-	-	-	-	-	-	-
	Oct-93	-	NA	-	-	-	-	-	-	-	-	-	-	12.0	-	-	-	-	-	-	-
	Jan-94	-	NA	-	-	-	-	-	-	-	-	4.3	-	-	-	-	-	-	-	-	-
	Apr-94	-	NA	-	-	-	-	-	-	-	-	3.5	-	7.2	-	-	-	-	-	-	-
	Jul-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-95	-	NA	-	-	-	-	-	-	-	-	-	-	9.1	-	-	-	-	-	-	-
	Jul-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-96	-	NA	-	-	-	-	-	-	-	-	-	1.4	-	[illegible]	-	-	-	-	-	-
	Jul-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Nov-96**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Nov-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-97**	-	NA	-	-	-	-	-	-	-	-	-	3.2	-	3.6	-	-	-	-	-	-
	Apr-97	-	NA	-	-	-	-	-	-	-	-	-	2.9	-	3.0	-	-	-	-	-	-
	Jul-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jul-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-98	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-98	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-98	NS	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-98	NS	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-99	-	-	-	1.1	-	3.2	-	-	-	-	-	8.4	-	2.0	-	-	-	-	-	-
MW-6	Apr-93	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-93	-	NA	-	-	-	-	-	-	-	-	-	-	5.0	-	-	-	-	-	-	-
	Oct-93	-	NA	-	-	-	-	-	-	-	-	-	-	1.3	-	-	-	-	-	-	-
	Jan-94	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-94	-	NA	-	-	-	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-
	Jul-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-95	-	NA	-	-	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-
	Jul-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-96	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Nov-96**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Nov-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-97**	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-97	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jul-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jan-98	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-98	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jul-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Apr-99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-99	-	-	-	-	-	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	Apr-93	-	NA	-	-	-	-	-	2.4	[illegible]	-	-	-	-	[illegible]	1.8	11.0	0.6	2.6	-	-
	Jul-93	-	NA	-	-	-	-	-	-	[illegible]	-	1.0	-	-	[illegible]	-	-	-	-	-	-
	Oct-93	-	NA	-	-	-	-	-	-	[illegible]	-	-	-	-	[illegible]	-	5.4	-	-	-	-
	Jan-94	* 60	NA	-	-	-	-	-	[illegible]	[illegible]	-	-	-	2.5	[illegible]	2.0	16.0	-	4.8	-	-
	Apr-94	-	NA	-	-	-	-	-	3.7	[illegible]	-	-	-	1.5	[illegible]	0.8	-	0.8	-	-	-
	Jul-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-94	-	NA	-	-	-	-	-	[illegible]	-	-	-	-	-	[illegible]	-	2.4	-	-	-	-
	Jan-95	-	NA	-	-	-	-	-	-	-	-	-	-	-	2.6	-	1.2	-	-	-	-
	Apr-95	-	NA	-	-	-	-	-	-	-	-	-	-	-	[illegible]	0.4	-	-	-	-	-
	Jul-95	-	NA	-	-	-	-	3.5	[illegible]	[illegible]	[illegible]	2.3	-	-	[illegible]	3.2	6.9	-	3.8	-	-
	Oct-95	-	NA	-	-	-	-	[illegible]	[illegible]	[illegible]	[illegible]	6	-	-	[illegible]	2	4	-	3	-	-
	Jan-96	-	NA	-	-	-	-	[illegible]	[illegible]	[illegible]	[illegible]	4	13	-	[illegible]	2	6	-	5	-	-
	Apr-96	-	NA	-	-	-	-	[illegible]	2.9	[illegible]	[illegible]	2.9	-	-	[illegible]	1.1	3.3	-	2.0	-	-
	Jul-96	-	NA	-	-	-	-	-	-	-	-	-	-	1.3	[illegible]	2.0	-	-	-	-	1.1
	Nov-96**	-	NA	-	-	-	-	3.2	[illegible]	[illegible]	[illegible]	1.1	1.7	2.5	[illegible]	3.4	23.3	3.0	24.4	-	3.9
	Nov-96	-	NA	-	-	-	-	1.3	4.3	[illegible]	[illegible]	2.9	3.9	-	[illegible]	1.6	5.8	-	5.7	-	1.1

Well No.	Date	1,2,4-TMB	1,3,5-TMB	TCFM	Freon 12	n-Propyl-benzene	Naph-thalene	Chloro-ethane	2-Chloro-toluene	Chloro-toluene	Trichloro-propane	Acetone	Vinyl chloride	Bromo-methane	n-Butyl-benzene	sec-Butyl-Benzene	Carbon Disulfide	Iodo-methane	Isopropyl-benzene	p-Isopropyl-toluene	Aceto-nitrile
MCL		NE	NE	150.0	NE	NE	NE	NE	NE	NE	NE	NE	0.5	NE	NE	NE	NE	NE	NE	NE	NE
MW-4 (Continued)	Apr-95	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-95	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Oct-95	NA	NA	-	-	NA	NA	-	-	-	-	NA	[illegible]	-	NA	NA	NA	NA	NA	NA	NA
	Jan-96	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-96	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-96	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Nov-96**	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Nov-96	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-97**	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-97	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-97**	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-97	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-97**	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-97	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Oct-97	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-98	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-98	NA	NA	-	-	NA	NA	-	-	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-98	-	-	-	-	-	-	-	-	-	-	31.3	-	-	-	-	NA	-	-	-	-
	Oct-98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-	-	-	-
	Apr-99	-	-	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	NA	-	-	-	-
	Oct-99	1.4	-	-	-	-	1.8	-	-	-	-	8.4	-	-	-	-	-	-	-	-	-
MW-5	Apr-93	NA	NA	18.0	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-93	NA	NA	19.0	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Oct-93	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-94	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-94	NA	NA	7.9	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-94	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Oct-94	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Jan-95	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Apr-95	NA	NA	-	-	NA	NA	-	NA	-	-	NA	14.0	-	NA	NA	NA	NA	NA	NA	NA
	Jul-95	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Oct-95	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Jan-96	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Apr-96	NA	NA	4.5	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-96	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Nov-96**	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Nov-96	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Jan-97**	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Jan-97	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Apr-97**	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-97	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-97**	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Jul-97	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Oct-97	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Jan-98	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Apr-98	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-98	NS	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-	NA	-	-	-	-
	Oct-98	NS	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-	NA	-	-	-	-
	Apr-99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-	-	-	-
	Oct-99	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	Apr-93	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-93	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Oct-93	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-94	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-94	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-94	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Oct-94	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Jan-95	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Apr-95	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-95	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Oct-95	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Jan-96	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Apr-96	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-96	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Nov-96**	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Nov-96	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Jan-97**	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Jan-97	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Apr-97**	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-97	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-97**	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Jul-97	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Oct-97	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Jan-98	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA	NA
	Apr-98	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	Apr-99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-	-	-	-
	Oct-99	-	-	-	-	-	-	-	-	-	-	4.5	-	-	-	-	-	-	-	-	-
MW-8	Apr-93	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-93	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Oct-93	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-94	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-94	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-94	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	-	NA	NA	NA	NA	NA	NA	NA
	Oct-94	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-95	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-95	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-95	NA	NA	-	-	NA	NA	-	NA	-	-	NA	[illegible]	-	NA	NA	NA	NA	NA	NA	NA
	Oct-95	NA	NA	-	-	NA	NA	-	NA	-	-	NA	[illegible]	-	NA	NA	NA	NA	NA	NA	NA
	Jan-96	NA	NA	-	-	NA	NA	-	NA	-	-	NA	[illegible]	-	NA	NA	NA	NA	NA	NA	NA
	Apr-96	NA	NA	-	-	NA	NA	-	NA	-	-	NA	[illegible]	-	NA	NA	NA	NA	NA	NA	NA
	Jul-96	NA	NA	-	-	NA	NA	-	NA	-	-	NA	[illegible]	-	NA	NA	NA	NA	NA	NA	NA
	Nov-96**	NA	NA	-	-	NA	NA	-	NA	-	-	NA	[illegible]	-	NA	NA	NA	NA	NA	NA	NA
	Nov-96	NA	NA	-	-	NA	NA	-	NA	-	-	NA	[illegible]	-	NA	NA	NA	NA	NA	NA	NA

Table 4
Summary of Groundwater Analytical Results
Detected Compounds (Results in µg/L)

Safety-Kleen Service Center
400 Market Street
Oakland, California

Well No.	Date	TPHms	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	1,1-DCE	1,1-DCA	1,2-DCA	cis-1,2-DCE	trans-1,2-DCE	Chloroform	1,1,1-TCA	TCE	PCE	Chloro-benzene	Dichloro-propane	1,2-DCB	1,3-DCB	1,4-DCB	1,2,4-TMB	1,3,5-TMB	TCFM	Freon 12	n-Propyl-benzene	Napth-thalene	Chloro-ethane	2-Chloro-toluene	Chloro-toluene	Trichloro-propane	Acetone	Vinyl chloride	Bromo-methane	n-Butyl-benzene	sec-Butyl-Benzene	Carbon Disulfide	Iodo-methane	Isopropyl-benzene	p-Isopropyl-toluene	Aceto-nitrile
MCL		NE	NE	1.0	150.0	700.0	1750.0	6.0	5.0	0.5	6.0	10.0	NE	200.0	5.0	5.0	70.0	5.0	600.0	NE	5	NE	NE	150.0	NE	NE	NE	NE	NE	NE	NE	NE	0.5	NE	NE	NE	NE	NE	NE	NE	NE
MW-8 (Continued)	Jan-97**	-	NA	-	-	-	-	-	-	-	1.2	-	-	-	2.9	[redacted]	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jan-97	-	NA	-	-	-	-	-	-	[redacted]	[redacted]	1.3	1.4	-	[redacted]	[redacted]	1.2	-	1.4	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Apr-97**	-	NA	-	-	-	-	-	3.6	[redacted]	[redacted]	-	-	-	[redacted]	4.9	3.4	-	3.3	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Apr-97	-	NA	-	-	-	-	-	4.8	[redacted]	[redacted]	-	-	-	[redacted]	4.8	4.6	-	4.5	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-97**	-	NA	-	-	-	-	-	-	[redacted]	[redacted]	2.3	3.2	-	[redacted]	1.2	1.3	-	1.4	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-97	-	NA	-	-	-	-	1.2	1.0	[redacted]	[redacted]	2.3	2.6	-	[redacted]	1.2	1.7	-	1.7	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Oct-97	-	NA	-	-	-	-	-	-	[redacted]	[redacted]	2.4	1.5	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jan-98	-	NA	-	-	-	-	-	-	-	5.8	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Apr-98	-	NA	-	-	-	-	-	-	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-98	-	-	-	-	-	-	-	-	-	[redacted]	-	-	-	[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-	-	-	-
	Oct-98	-	-	-	-	-	-	[redacted]	-	-	[redacted]	-	-	-	[redacted]	-	5.6	-	13.8	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7	-	-	NA	-	-	-	-
	Apr-99	-	-	-	5.4	-	23.1	-	[redacted]	[redacted]	[redacted]	-	-	-	[redacted]	-	7.1	-	14.9	-	-	-	-	-	-	-	-	-	-	-	-	-	23.1	-	-	NA	-	-	-	-
	Oct-99	-	-	-	-	-	2.4	[redacted]	-	[redacted]	[redacted]	1.4	-	1.6	[redacted]	-	-	-	1.0	-	-	1.1	-	-	-	-	-	-	-	-	-	-	1.4	-	-	-	-	-	-	-
MW-9	Apr-93	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jul-93	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-93	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jul-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jul-95	Well Destroyed July 1995																																						
MW-11	Apr-93	-	NA	-	-	-	-	-	-	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-93	-	NA	-	-	-	-	2.0	-	-	-	3.0	-	2.0	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Oct-93	-	NA	-	-	-	-	-	-	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jan-94	-	NA	-	-	-	-	-	-	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Apr-94	-	NA	-	-	-	-	-	-	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-95	-	NA	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	1.4	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jul-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Nov-96**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Nov-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jul-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jul-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-98	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-98	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jul-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	Apr-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	Oct-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
MW-12	Apr-93	-	NA	-	-	-	-	-	2.6	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-93	-	NA	-	-	-	-	-	2.0	[redacted]	-	3.0	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Oct-93	-	NA	-	-	-	-	-	-	[redacted]	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jan-94	-	NA	-	-	-	-	-	2.3	[redacted]	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Apr-94	-	NA	-	-	-	-	-	1.7	[redacted]	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-94	-	NA	-	-	-	-	-	1.6	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jan-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-95	-	NA	-	-	-	-	-	3.8	-	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-95	-	NA	-	-	-	-	2	4	[redacted]	-	5	2	-	[redacted]	-	-	-	2	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA
	Jan-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-96	-	NA	-	-	-	-	-	3.9	[redacted]	-	-	1.1	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA

Table 6
Summary of Groundwater Analytical Results
Detected Compounds (Results in µg/L)

Safety-Kleen Service Center
400 Market Street
Oakland, California

Well No.	Date	TPHms	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	1,1-DCE	1,1-DCA	1,2-DCA	cis-1,2-DCE	trans-1,2-DCE	Chloroform	1,1,1-TCA	TCE	PCE	Chloro-benzene	Dichloro-propane	1,2-DCB	1,3-DCB	1,4-DCB	1,2,4-TMB	1,3,5-TMB	TCFM	Freon 12	n-Propyl-benzene	Napth-alene	Chloro-ethane	2-Chloro-toluene	Chloro-toluene	Trichloro-propane	Acetone	Vinyl chloride	Bromo-methane	n-Butyl-benzene	sec-Butyl-Benzene	Carbon Disulfide	Iodo-methane	Isopropyl-benzene	p-Isopropyl-toluene	Aceto-nitrile
MCL		*NE*	*NE*	*1.0*	*150.0*	*700.0*	*1750.0*	*6.0*	*5.0*	*0.5*	*6.0*	*10.0*	*NE*	*200.0*	*5.0*	*5.0*	*70.0*	*5.0*	*600.0*	*NE*	*5*	*NE*	*NE*	*150.0*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*0.5*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
MW-12 (Continued)	Jul-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Nov-96**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Nov-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-97**	-	NA	-	-	-	-	-	6.2	1.5	1.1	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-97	-	NA	-	-	-	-	-	4.3	1.0	1.4	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jul-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-97	-	NA	-	-	-	-	-	4.5	2.4	2.1	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jan-98	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-98	-	NA	-	-	-	-	-	3.3	1.5	-	-	-	-	[redacted]	-	-	-	-	-	-	NA	NA	-	1.6	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	Oct-98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-	-	-	-	-
	Apr-99	-	-	-	6.5	-	-	-	-	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-	-	-	-	-
	Oct-99	-	-	-	-	-	3.2	-	1.4	-	1.5	-	-	-	21.4	-	-	-	-	-	-	1.0	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	Apr-93	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-93	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-93	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-94	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-94	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-95	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-95	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-96	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Nov-96**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Nov-96	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-97**	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Apr-97	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-97**	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jul-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Oct-97	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Jan-98	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NS	NS	NA	NA	NS	NA	NS	NS	NA	NS	NS	NA	NA	NA	NA	NA	NA
	Apr-98	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA	-	-	NA	NA	-	NA	-	-	NA	-	-	NA	NA	NA	NA	NA	NA	NA
	Jul-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	Apr-99	-	-	-	7.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-	-	-	-	-
	Oct-99	-	-	-	-	-	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-	-	-	-	-
RW-1	Oct-99	890.0	1.3	5.4	5.2	4.9	38.3	1.2	15.6	-	-	-	-	-	10.1	-	6.1	-	42.8	2.5	16.4	63.1	32.2	-	-	3.3	38.9	3.0	6.5	-	-	7.0	3.0	-	-	1.9	-	-	2.1	3.3	11.1

Notes:
Concentrations of compounds detected equal to or greater than the MCL are shaded.
(1) In addition to the constituents listed, chloromethane was detected at 1.0 µg/L.

TPHms	= Total petroleum hydrocarbons as mineral spirits	TCE	= Trichloroethene	TCFM	= Trichlorofluoromethane	MCL	= Maximum contaminant level for primary drinking water constituents
DCE	= Dichloroethene	PCE	= Tetrachloroethene	Freon 12	= Dichlorodifluoromethane	NS	= Not Sampled
DCA	= Dichloroethane	DCB	= Dichlorobenzene	NE	= Not Established	-	= Not Detected
TCA	= Trichloroethane	TMB	=Trimethylbenzene	NA	#NAME?		

* The TPHms result is the result of an unknown hydrocarbon consisting of a single peak.
** This sample was collected prior to purging the monitor well.
*** Well MW-13 was sampled on 4/10/97. Analytical results were anomalous therefore, the well was resampled on 5/16/97.
Only compounds detected in one or more samples are included. See the laboratory reports for a complete list of analytes.

APPENDIX A
PURGE DATA SHEETS

Quarterly Progress Report (July - September 1999)
SECOR International Incorporated
1390 Willow Pass Road, Suite 360
Concord, CA 94520
SECOR Job No. 007.50809.003
December 21, 1999

HYDROLOGIC DATA SHEET

SAFETY-KLEEN SYSTEMS, INC
400 MARKET STREET
OAKLAND, CALIFORNIA

PROJECT NO.: 007.03788.007

DATE: 10-8-99
START TIME: 7:00
END TIME: 5:30

	WELL ID	Well Diameter (inches)	Top Of Casing Elevation (ft msl)	Depth To Water (feet)	Depth To Product (feet)	Product Thickness (feet)	Total Depth (feet)	Adjusted Groundwater Elevation (ft msl)
3	MW-1	2	7.99	6.18				1.81
2	MW-2	2	8.20	6.93				1.27
3	MW-3	2	6.66	5.31				1.35
5	MW-4	2	10.32	7.97				2.35
2	MW-5	2	10.28	8.02				2.26
2	MW-6	2	8.97	6.99				1.98
6	MW-8	2	7.80	6.23				1.57
7	MW-9	4	8.21	6.46		Sheen		1.75
	MW-11	2	7.91	6.11				1.80
4	MW-12	2	6.74	5.53				1.21
1	MW-13	4	8.08	6.64				1.44
7	RW-1	10	-	5.48		Slight Sheen		

Notes:

collect equip. Blank

SECOR

IN-SITU CHEMICAL OXIDATION PILOT STUDY
FIELD DATA SHEET

SAFETY-KLEEN SYSTEMS, INC
400 MARKET STREET
OAKLAND, CALIFORNIA

PROJECT NO.: 007.03788.012

DATE: 10-8-99
START TIME: 7:00
END TIME: 5:30

WELL ID	DTW (feet)	Oxidation Reduction Potential (millivolts)	Dissolved Oxygen (mg/L)	pH	Electrical Conductivity (umhos/cm)	$KMnO_4$ Purple Color Present	$KMnO_4$ Concentration (g/L)
MW-1	6.18	476	1.01	6.55	421		
MW-2	6.93	488	0.45	6.49	630		
MW-3	5.31	459	2.33	6.32	127		
MW-4	7.97	485	0.55	6.21	829		
MW-5	8.02	456	0.66	6.37	379		
MW-6	6.99	160	2.59	6.44	418		
MW-8	6.23	419	0.34	6.25	775		
MW-9	6.46	-72.6	0.06	6.58	931		
MW-11	6.11	Could not retrieve H_2O due to roots					
MW-12	5.53	478	0.35	6.45	642		
MW-13	6.64	269	2.61	8.61	556		
RW-1	5.48	-50.8	0.24	6.67	855		

Notes:

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 Purged By: CM Well I.D.: MW-1

Client Name: Safety-Kleen Sampled By: CM Sample I.D.: _____

Location: 400 Market St., Oakland QA Samples: _____

Date Purged 10-8-99 Start (2400hr) 12:10 End (2400hr) 12:28

Date Sampled 10-8-99 Sample Time (2400hr) 12:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" ✓ 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____

Depth to Bottom (feet) = _____ Purge (gal) = _____

Depth to Water (feet) = 6.18 Purge Rate (☐ gal or ☐ liter/min) _____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	ORP ~~Depth~~ (ft)
10-8	12:10	1.0	20.45	419	6.49	Cloudy	low	1.04	460
	12:13	1.2	20.58	417	6.53	"	"	1.11	469
	12:15	1.4	20.65	418	6.54	Clear	low	1.10	471
	12:18	1.6	20.68	417	6.54	"	"	1.08	473
	12:20	1.8	20.74	418	6.55	"	"	1.04	474
	12:23	2.0	20.83	419	6.55	"	"	1.02	475
	12:25	2.2	20.93	420	6.55	"	"	1.02	475
✓	12:28	2.4	21.01	421	6.55	"	"	1.01	476

SAMPLE INFORMATION

Sample Depth to Water: _____ Sample Turbidity: _____

Analyses: 8260/TPHms/Chloride/Permanganate

Odor: none Sample Vessel/Preservative: 5 VOAs / 2 Liters

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated _____

Other: _____

Pump Depth: 8'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated _____

Other: _____

Well Integrity: Good Lock #: 0909

Remarks: _____

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ~~± 3%~~.

Signature: _____ Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 Purged By: CM Well I.D.: MW-2

Client Name: Safety-Kleen Sampled By: CM Sample I.D.: MW-2

Location: 400 Market St., Oakland QA Samples: —

Date Purged 10-8-99 Start (2400hr) 12:10 End (2400hr) 13:28

Date Sampled 10-8-99 Sample Time (2400hr) 13:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" ✓ 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = ____ Purge (gal) = ____

Depth to Water (feet) = 6.93 Purge Rate (☐ gal or ☐ liter/min) ____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	~~Depth~~ ORP (ft)
10-8	13:13	1.0	21.20	623	6.51	Cloudy	mod	0.40	477
	13:15	1.2	21.47	624	6.50	"	"	0.42	482
	13:18	1.4	21.58	627	6.50	"	"	0.45	484
	13:20	1.6	21.73	629	6.50	Cloudy	low	0.46	486
	13:23	1.8	21.81	629	6.49	"	"	0.46	487
	13:25	2.0	21.91	629	6.49	"	"	0.45	488
✓	13:28	2.2	22.00	630	6.49	"	"	0.45	488

SAMPLE INFORMATION

Sample Depth to Water: ____ Sample Turbidity: low

Analyses: 8260/TPHms/Chloride/Permanganate

Odor: none Sample Vessel/Preservative: 5 VOAs / 2 Liters

PURGING EQUIPMENT

___Bladder Pump ___Bailer (Teflon)

___Centrifugal Pump ___Bailer (PVC)

X Submersible Pump ___Bailer (Stainless Steel)

___Peristaltic Pump ___Dedicated ____

Other: ____

Pump Depth: 8.5

SAMPLING EQUIPMENT

___Bladder Pump ___Bailer (Teflon)

___Centrifugal Pump ___Bailer (PVC or disposable)

X Submersible Pump ___Bailer (Stainless Steel)

___Peristaltic Pump ___Dedicated ____

Other: ____

Well Integrity: Good Lock #: 0909

Remarks: ____

NOTE: Sample after three consecutive readings are within:

pH - ± 0.1, turbidity and DO ~~=~~ ± 10%, conductivity ~~=~~ ± 3%.

Signature: [signature] Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 | Purged By: CM | Well I.D.: MW-3

Client Name: Safety-Kleen | Sampled By: CM | Sample I.D.: MW-3

Location: 400 Market St., Oakland | QA Samples: —

Date Purged 10-8-99 | Start (2400hr) 11:10 | End (2400hr) 11:28

Date Sampled 10-8-99 | Sample Time (2400hr) 11:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = ____ | Purge (gal) = ____

Depth to Water (feet) = 5.31 | Purge Rate (☐ gal or ☐ liter/min) ____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	~~Depth~~ ORP (ft)
10-8	11:10	1.0	20.04	123	6.44	Cloudy	mod	2.27	411
	11:13	1.2	20.05	119	6.41	"	"	2.29	423
	11:15	1.4	20.36	121	6.37	"	"	2.32	438
	11:18	1.6	20.82	125	6.34	"	"	2.29	451
	11:20	1.8	20.92	126	6.34	"	"	2.30	453
	11:23	2.0	21.00	126	6.34	"	"	2.30	455
	11:25	2.2	21.09	126	6.37	"	"	2.33	457
	11:28	2.4	21.17	127	6.32	"	"	2.33	459

SAMPLE INFORMATION

Sample Depth to Water: ____ | Sample Turbidity: mod

Analyses: 8260/TPHms/Chloride/Permanganate

Odor: none | Sample Vessel/Preservative: 5 VOAs / 2 Liters

PURGING EQUIPMENT

___Bladder Pump ___Bailer (Teflon)

___Centrifugal Pump ___Bailer (PVC)

X Submersible Pump ___Bailer (Stainless Steel)

___Peristaltic Pump ___Dedicated ____

Other: ____

Pump Depth: 8

SAMPLING EQUIPMENT

___Bladder Pump ___Bailer (Teflon)

___Centrifugal Pump ___Bailer (PVC or disposable)

X Submersible Pump ___Bailer (Stainless Steel)

___Peristaltic Pump ___Dedicated ____

Other: ____

Well Integrity: good | Lock #: 0909

Remarks: ____

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO - ± 10%, conductivity = ± 3%.

Signature: [signature] | Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 Purged By: CM Well I.D.: MW-4

Client Name: Safety-Kleen Sampled By: CM Sample I.D.: MW-4

Location: 400 Market St., Oakland QA Samples: —

Date Purged 10-8-99 Start (2400hr) 15:10 End (2400hr) 15:28

Date Sampled 10-8-99 Sample Time (2400hr) 15:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = ____ Purge (gal) = ____

Depth to Water (feet) = 7.97 Purge Rate (☐ gal or ☐ liter/min) ____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	~~Depth~~ OKP (ft)
10-8	15:10	1.0	21.29	835	6.23	Cloudy	Mod	0.54	428
	15:13	1.2	21.34	833	6.23	"	"	0.51	451
	15:15	1.4	21.48	831	6.22	"	"	0.49	466
	15:18	1.6	21.57	828	6.22	"	"	0.51	472
	15:20	1.8	21.65	829	6.22	"	"	0.52	476
	15:23	2.0	21.74	829	6.21	"	low	0.53	481
	15:25	2.2	21.84	828	6.21	"	"	0.54	484
↓	15:28	2.4	21.89	829	6.21	"	"	0.55	485

SAMPLE INFORMATION

Sample Depth to Water: ____ Sample Turbidity: low

Analyses: 8260/TPHms/Chloride/Permanganate

Odor: None Sample Vessel/Preservative: 5 Voas / 2 Liters

PURGING EQUIPMENT

___Bladder Pump ___Bailer (Teflon)

___Centrifugal Pump ___Bailer (PVC)

X Submersible Pump ___Bailer (Stainless Steel)

___Peristaltic Pump ___Dedicated ____

Other: ____

Pump Depth: 9.5

SAMPLING EQUIPMENT

___Bladder Pump ___Bailer (Teflon)

___Centrifugal Pump ___Bailer (PVC or disposable)

X Submersible Pump ___Bailer (Stainless Steel)

___Peristaltic Pump ___Dedicated ____

Other: ____

Well Integrity: good Lock #: 0909

Remarks: ____

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ± ~~10%~~, conductivity = ± 3%.

Signature: [signature] Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 | Purged By: CM | Well I.D.: MW-5

Client Name: Safety-Kleen | Sampled By: CM | Sample I.D.: MW-5

Location: 400 Market St., Oakland | QA Samples: _____

Date Purged 10-8-99 | Start (2400hr) 10:08 | End (2400hr) 10:28

Date Sampled 10-8-99 | Sample Time (2400hr) 10:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" ✓ 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____

Depth to Bottom (feet) = _____ | Purge (gal) = _____

Depth to Water (feet) = 8.02 | Purge Rate (☐ gal or ☐ liter/min) _____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	ORP ~~Depth~~ (ft)
10-8	10:08	1.0	20.06	398	6.28	Cloudy	mod	0.58	401
	10:10	1.2	20.40	397	6.30	"	"	0.59	447
	10:13	1.4	20.54	392	6.32	"	"	0.62	457
	10:15	1.6	21.02	395	6.32	"	"	0.69	456
	10:18	1.8	21.68	382	6.37	"	"	0.71	451
	10:20	2.0	21.62	391	6.38	"	"	0.70	453
	10:23	2.2	21.58	390	6.38	"	"	0.69	454
	10:25	2.4	21.48	377	6.38	"	"	0.67	455
✓	10:28	2.6	21.50	379	6.37	"	"	0.66	456

SAMPLE INFORMATION

Sample Depth to Water: _____ | Sample Turbidity: mod.

Analyses: 8260/TPHms/Chloride/Permanganate

Odor: None | Sample Vessel/Preservative: 5 Voas / 2 Liters

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated _____

Other: _____

Pump Depth: 9.5

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated _____

Other: _____

Well Integrity: Good | Lock #: 0909

Remarks: _____

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO ~~= ± 10%~~, conductivity ~~= ± 3%~~.

Signature: _____ | Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 Purged By: CM Well I.D.: MW-6

Client Name: Safety-Kleen Sampled By: CM Sample I.D.: MW-6

Location: 400 Market St., Oakland QA Samples: _____

Date Purged 10-8-99 Start (2400hr) 9:07 End (2400hr) 9:28

Date Sampled 10-8-99 Sample Time (2400hr) 9:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" ✓ 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____

Depth to Bottom (feet) = _____ Purge (gal) = _____

Depth to Water (feet) = 6.99 Purge Rate (☐ gal or ☐ liter/min) _____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (μmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	~~Depth~~ ORP (ft)
10-8	9:07	1	19.30	447	6.49	cloudy	mod	2.48	177
	9:10	1.2	19.55	370	6.47	"	"	3.16	188
	9:13	1.4	19.77	361	6.44	"	"	3.22	196
	9:15	1.6	20.09	408	6.41	"	"	2.87	183
	9:18	1.8	20.39	411	6.42	"	low	2.77	172
	9:20	2.0	20.64	410	6.43	"	"	2.73	167
	9:23	2.2	20.86	417	6.44	"	"	2.66	163
	9:25	2.4	21.07	419	6.44	"	"	2.60	161
✓	9:28	2.6	21.16	418	6.44	"	"	2.59	160

SAMPLE INFORMATION

Sample Depth to Water: _____ Sample Turbidity: low

Analyses: 8260/TPHms/Chloride/Permanganate

Odor: none Sample Vessel/Preservative: 5 VOAs / 2 Liters

PURGING EQUIPMENT

___Bladder Pump ___Bailer (Teflon)

___Centrifugal Pump ___Bailer (PVC)

X Submersible Pump ___Bailer (Stainless Steel)

___Peristaltic Pump ___Dedicated _____

Other: _____

Pump Depth: 8.5

SAMPLING EQUIPMENT

___Bladder Pump ___Bailer (Teflon)

___Centrifugal Pump ___Bailer (PVC or disposable)

X Submersible Pump ___Bailer (Stainless Steel)

___Peristaltic Pump ___Dedicated _____

Other: _____

Well Integrity: good Lock #: 0909

Remarks: _____

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ~~± 10%~~, conductivity = ~~± 3%~~.

Signature: _____ Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 | Purged By: CM | Well I.D.: MW-8

Client Name: Safety-Kleen | Sampled By: CM | Sample I.D.: MW-8

Location: 400 Market St., Oakland | QA Samples: Dup. 1

Date Purged 10-8-99 | Start (2400hr) 16:10 | End (2400hr) 16:25

Date Sampled 10-8-99 | Sample Time (2400hr) 16:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" ____ 3" ____ 4" X 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = ____ | Purge (gal) = ____

Depth to Water (feet) = 6.23 | Purge Rate (☐ gal or ☐ liter/min) ____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	~~Depth (ft)~~ ORP mV
10-8	16:10	1.0	21.25	768	6.26	Cloudy	mod	0.43	437
	16:13	1.2	21.47	771	6.25	"	low	0.39	428
	16:15	1.4	21.60	769	6.25	"	"	0.38	425
	16:17	1.6	21.73	772	6.25	"	"	0.36	423
	16:20	1.8	21.91	773	6.25	"	"	0.35	422
	16:22	2.0	22.01	775	6.25	"	"	0.35	420
	16:25	2.2	22.11	775	6.25	"	"	0.34	419

SAMPLE INFORMATION

Sample Depth to Water: ____ | Sample Turbidity: low

Odor: Faint | Analyses: 8260/TPHms/Chloride/Permanganate

Sample Vessel/Preservative: 5 Voas / 2 Liters

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated ____

Other: ____

Pump Depth: 8'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated ____

Other: ____

Well Integrity: good | Lock #: 0909

Remarks: ____

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ~~± 10%~~, conductivity = ~~± 3%~~

Signature: [signature] | Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 | Purged By: CM | Well I.D.: MW-9

Client Name: Safety-Kleen | Sampled By: CM | Sample I.D.: MW-9

Location: 400 Market St., Oakland | QA Samples: —

Date Purged 10-8-99 | Start (2400hr) 17:40 | End (2400hr) 17:58

Date Sampled 10-8-99 | Sample Time (2400hr) 18:00

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" ____ 3" ____ 4" X 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = ____ | Purge (gal) = ____

Depth to Water (feet) = 6.46 | Purge Rate (☐ gal or ☐ liter/min) ____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	~~Depth~~ ORP (ft)
10-8	17:43	1.0	23.35	935	6.55	Black	High	0.12	-75.7
	17:45	1.2	23.29	938	6.57	"	"	0.09	-77.4
	17:48	1.4	23.20	933	6.58	"	"	0.08	-78.3
	17:50	1.6	23.09	935	6.58	Grey	mod	0.08	-75.5
	17:53	1.8	22.97	937	6.58	"	"	0.07	-77.3
	17:55	2.0	22.93	931	6.58	"	"	0.06	-72.5
↓	17:58	2.2	22.87	931	6.58	"	"	0.06	-72.6

SAMPLE INFORMATION

Sample Depth to Water: ____ | Sample Turbidity: mod

Odor: Strong | Analyses: 8260/TPHms/Chloride/Permanganate

Sample Vessel/Preservative: 5 Vogs / 2 Liters

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated ____

Other: ____

Pump Depth: 8'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated ____

Other: ____

Well Integrity: Good | Lock #: 0909

Remarks: Sheen on water

NOTE: Sample after three consecutive readings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ± 3%

Signature: [signature] | Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 | Purged By: CM | Well I.D.: MW-12

Client Name: Safety-Kleen | Sampled By: CM | Sample I.D.: MW-12

Location: 400 Market St., Oakland | QA Samples: —

Date Purged 10-8-99 | Start (2400hr) 14:07 | End (2400hr) 14:25

Date Sampled 10-8-99 | Sample Time (2400hr) 14:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = ____ | Purge (gal) = ____

Depth to Water (feet) = 5.53 | Purge Rate (☐ gal or ☐ liter/min) ____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
10-8	14:07	1.0	20.04	635	6.51	Cloudy	mod	0.38	418
	14:10	1.2	20.37	636	6.47	"	"	0.38	454
	14:13	1.4	20.49	636	6.45	"	"	0.37	461
	14:15	1.6	20.68	639	6.44	"	"	0.37	466
	14:18	1.8	20.81	635	6.44	"	"	0.37	470
	14:20	2.0	20.90	641	6.44	"	low	0.37	474
	14:22	2.2	20.99	640	6.45	"	"	0.36	477
	14:25	2.4	21.07	642	6.45	"	"	0.35	478

SAMPLE INFORMATION

Sample Depth to Water: ____ | Sample Turbidity: low

Analyses: 8260/TPHms/Chloride/Permanganate

Odor: none | Sample Vessel/Preservative: 5 VOAs / 2 Liters

PURGING EQUIPMENT

___ Bladder Pump	___ Bailer (Teflon)
___ Centrifugal Pump	___ Bailer (PVC)
X Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	___ Dedicated ____

Other: ____

Pump Depth: 8'

SAMPLING EQUIPMENT

___ Bladder Pump	___ Bailer (Teflon)
___ Centrifugal Pump	___ Bailer (PVC or disposable)
X Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	___ Dedicated ____

Other: ____

Well Integrity: Good | Lock #: 0909

Remarks: ____

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ± ~~10%~~, conductivity = ± ~~3%~~.

Signature: [signature] | Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 Purged By: CM Well I.D.: MW-13

Client Name: Safety-Kleen Sampled By: CM Sample I.D.: MW-13

Location: 400 Market St., Oakland QA Samples: —

Date Purged 10-8-99 Start (2400hr) 8:05 End (2400hr) 8:25

Date Sampled 10-8-99 Sample Time (2400hr) 8:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" ____ 3" ____ 4" X 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = ____ Purge (gal) = ____

Depth to Water (feet) = 6.64 Purge Rate (☐ gal or ☐ liter/min) ____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	ORP ~~Depth~~ (ft)
10-8	8:05	0.6	18.76	560	8.59	Clear	low	2.61	235
	8:07	0.8	18.64	559	8.60	"	"	2.65	238
	8:10	1.0	18.54	558	8.61	"	"	2.62	245
	8:13	1.2	18.48	558	8.60	"	"	2.61	253
	8:15	1.4	18.44	555	8.60	"	"	2.60	259
	8:18	1.6	18.42	556	8.61	"	"	2.63	263
	8:20	1.8	18.40	557	8.61	"	"	2.61	266
	8:22	2.0	18.38	558	8.61	"	"	2.60	268
↓	8:25	2.2	18.37	556	8.61	"	"	2.61	269

SAMPLE INFORMATION

Sample Depth to Water: ____ Sample Turbidity: low

Analyses: 8260/TPHms/Chloride/Permanganate

Odor: none Sample Vessel/Preservative: 5 Voas / 2 Liters

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated ____

Other: ____

Pump Depth: 68'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated ____

Other: ____

Well Integrity: good Lock #: 0909

Remarks: ____

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ~~± 3%~~.

Signature: [signature] Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03788.007 Purged By: CM Well I.D.: RW-1

Client Name: Safety-Kleen Sampled By: CM Sample I.D.: _____

Location: 400 Market St., Oakland QA Samples: _____

Date Purged 10-8-99 Start (2400hr) 17:10 End (2400hr) 17:25

Date Sampled 10-8-99 Sample Time (2400hr) 17:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" _____ 3" _____ 4" _____ 5" _____ 6" _____ 8" X? Other _____

Depth to Bottom (feet) = _____ Purge (gal) = _____

Depth to Water (feet) = 5.48 Purge Rate (☐ gal or ☐ liter/min) _____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	ORP ~~Depth~~ (ft)
10-8	17:10	1.0	22.74	849	6.68	Cloudy	low	0.33	-47.1
	17:13	1.2	22.87	851	6.67	"	"	0.30	-47.9
	17:15	1.4	22.99	845	6.67	"	"	0.28	-48.7
	17:18	1.6	23.06	843	6.67	"	"	0.27	-49.1
	17:20	1.8	23.12	846	6.67	"	"	0.26	-50.0
	17:22	2.0	23.18	854	6.67	"	"	0.25	-50.4
↓	17:25	2.2	23.21	855	6.67	"	"	0.24	-50.8

SAMPLE INFORMATION

Sample Depth to Water: _____ Sample Turbidity: low

Odor: mod. Analyses: 8260/TPHms/Chloride/Permanganate

Sample Vessel/Preservative: 5 VOAs / 2 Liters

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated _____

Other: _____

Pump Depth: 8.5'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated _____

Other: _____

Well Integrity: good Lock #: 0909

Remarks: Slight Sheen

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ± 3%.

Signature: _____ Page ___ of ___

APPENDIX B

LABORATORY REPORTS - VAPOR SAMPLES

Quarterly Progress Report (July - September 1999)
SECOR International Incorporated
1390 Willow Pass Road, Suite 360
Concord, CA 94520
SECOR Job No. 007.50809.003
DECEMBER 21, 1999

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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

October 27, 1999

Greg Hoehn
SECOR International
1390 Willow Pass Road, Suite 360
Concord, CA 94520

Order: 17026
Project Name: Safety-Kleen
Project Number: 007.03788.008
Project Notes:

Date Collected: 10/19/99
Date Received: 10/20/99
P.O. Number:

On October 20, 1999, 2 samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix	Test	Method
Air	BTEX	EPA 8020
	EPA 8010	EPA 8010
	TPH as Mineral Spirits	EPA 8015 MOD. (Purgeable)

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#I-2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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

Certified Analytical Report
Purgeable Halocarbons by EPA Method 8010

Client: SECOR International
Sample Matrix: Air
Sample Date/Time: 10/19/99 16:00
Lab #: 17026-001
Client ID: EFFL

Date Reported: 10/27/99
Date Received: 10/20/99
Date Analyzed: 10/21/99
Dilution Factor: 1

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
Bromodichloromethane	ND	0.1	0.1	trans-1,2-Dichloroethene	ND	0.1	0.1
Bromoform	ND	0.2	0.2	1,2-Dichloropropane	ND	0.1	0.1
Bromomethane	ND	0.2	0.2	cis-1,3-Dichloropropene	ND	0.1	0.1
Carbon Tetrachloride	ND	0.1	0.1	trans-1,3-Dichloropropene	ND	0.1	0.1
Chlorobenzene	ND	0.1	0.1	Methylene Chloride	ND	0.2	0.2
Chloroethane	ND	0.2	0.2	1,1,2,2-Tetrachloroethane	ND	0.1	0.1
Chloroform	ND	0.2	0.2	Tetrachloroethene	ND	0.1	0.1
Chloromethane	ND	0.1	0.1	1,1,1-Trichloroethane	ND	0.1	0.1
Dibromochloromethane	ND	0.2	0.2	1,1,2-Trichloroethane	ND	0.1	0.1
Dichlorodifluoromethane	ND	0.1	0.1	Trichloroethene	ND	0.1	0.1
1,2- Dichlorobenzene	ND	0.1	0.1	Trichlorofluoromethane	ND	0.1	0.1
1,3- Dichlorobenzene	ND	0.1	0.1	Vinyl Chloride	ND	0.1	0.1
1,4- Dichlorobenzene	ND	0.1	0.1				
1,1-Dichloroethane	ND	0.1	0.1				
1,2-Dichloroethane	ND	0.1	0.1				
1,1-Dichloroethene	ND	0.1	0.1				
cis-1,2-Dichloroethene	ND	0.1	0.1				

Surrogate	Recovery (%)
Bromochloromethane	101

1. Results are reported in mg/m^3
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #I-2346)

Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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

Certified Analytical Report
Purgeable Halocarbons by EPA Method 8010

Client: SECOR International
Sample Matrix: Air
Sample Date/Time: 10/19/99 16:10
Lab #: 17026-002
Client ID: INFL

Date Reported: 10/27/99
Date Received: 10/20/99
Date Analyzed: 10/21/99
Dilution Factor: 1

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
Bromodichloromethane	ND	0.1	0.1	trans-1,2-Dichloroethene	ND	0.1	0.1
Bromoform	ND	0.2	0.2	1,2-Dichloropropane	ND	0.1	0.1
Bromomethane	ND	0.2	0.2	cis-1,3-Dichloropropene	ND	0.1	0.1
Carbon Tetrachloride	ND	0.1	0.1	trans-1,3-Dichloropropene	ND	0.1	0.1
Chlorobenzene	ND	0.1	0.1	Methylene Chloride	ND	0.2	0.2
Chloroethane	ND	0.2	0.2	1,1,2,2-Tetrachloroethane	ND	0.1	0.1
Chloroform	ND	0.2	0.2	Tetrachloroethene	0.1	0.1	0.1
Chloromethane	ND	0.1	0.1	1,1,1-Trichloroethane	ND	0.1	0.1
Dibromochloromethane	ND	0.2	0.2	1,1,2-Trichloroethane	ND	0.1	0.1
Dichlorodifluoromethane	ND	0.1	0.1	Trichloroethene	ND	0.1	0.1
1,2- Dichlorobenzene	ND	0.1	0.1	Trichlorofluoromethane	ND	0.1	0.1
1,3- Dichlorobenzene	ND	0.1	0.1	Vinyl Chloride	ND	0.1	0.1
1,4- Dichlorobenzene	ND	0.1	0.1				
1,1-Dichloroethane	ND	0.1	0.1				
1,2-Dichloroethane	ND	0.1	0.1				
1,1-Dichloroethene	ND	0.1	0.1				
cis-1,2-Dichloroethene	ND	0.1	0.1				

Surrogate	Recovery (%)
Bromochloromethane	107

1. Results are reported in mg/m^3
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #I-2346)

Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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

Certified Analytical Report
Purgeable Halocarbons by EPA Method 8010

Client: SECOR International
Sample Matrix: Air
Sample Date/Time: 10/19/99 16:00
Lab #: 17026-001
Client ID: EFFL

Date Reported: 10/27/99
Date Received: 10/20/99
Date Analyzed: 10/21/99
Dilution Factor: 1

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
Bromodichloromethane	ND	0.014	0.014	trans-1,2-Dichloroethene	ND	0.023	0.023
Bromoform	ND	0.018	0.018	1,2-Dichloropropane	ND	0.02	0.02
Bromomethane	ND	0.047	0.047	cis-1,3-Dichloropropene	ND	0.02	0.02
Carbon Tetrachloride	ND	0.015	0.015	trans-1,3-Dichloropropene	ND	0.02	0.02
Chlorobenzene	ND	0.02	0.02	Methylene Chloride	ND	0.016	0.016
Chloroethane	ND	0.069	0.069	1,1,2,2-Tetrachloroethane	ND	0.013	0.013
Chloroform	ND	0.038	0.038	Tetrachloroethene	ND	0.014	0.014
Chloromethane	ND	0.044	0.044	1,1,1-Trichloroethane	ND	0.017	0.017
Dibromochloromethane	ND	0.022	0.022	1,1,2-Trichloroethane	ND	0.017	0.017
Dichlorodifluoromethane	ND	0.019	0.019	Trichloroethene	ND	0.017	0.017
1,2- Dichlorobenzene	ND	0.015	0.015	Trichlorofluoromethane	ND	0.016	0.016
1,3- Dichlorobenzene	ND	0.015	0.015	Vinyl Chloride	ND	0.036	0.036
1,4- Dichlorobenzene	ND	0.015	0.015				
1,1-Dichloroethane	ND	0.023	0.023				
1,2-Dichloroethane	ND	0.023	0.023				
1,1-Dichloroethene	ND	0.023	0.023				
cis-1,2-Dichloroethene	ND	0.023	0.023				

Surrogate	Recovery (%)
Bromochloromethane	101

1. Results are reported in ppmV
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #I-2346)

Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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

Certified Analytical Report
Purgeable Halocarbons by EPA Method 8010

Client: SECOR International
Sample Matrix: Air
Sample Date/Time: 10/19/99 16:10
Lab #: 17026-002
Client ID: INFL

Date Reported: 10/27/99
Date Received: 10/20/99
Date Analyzed: 10/21/99
Dilution Factor: 1

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
Bromodichloromethane	ND	0.014	0.014	trans-1,2-Dichloroethene	ND	0.023	0.023
Bromoform	ND	0.018	0.018	1,2-Dichloropropane	ND	0.02	0.02
Bromomethane	ND	0.047	0.047	cis-1,3-Dichloropropene	ND	0.02	0.02
Carbon Tetrachloride	ND	0.015	0.015	trans-1,3-Dichloropropene	ND	0.02	0.02
Chlorobenzene	ND	0.02	0.02	Methylene Chloride	ND	0.016	0.016
Chloroethane	ND	0.069	0.069	1,1,2,2-Tetrachloroethane	ND	0.013	0.013
Chloroform	ND	0.038	0.038	Tetrachloroethene	0.014	0.014	0.014
Chloromethane	ND	0.044	0.044	1,1,1-Trichloroethane	ND	0.017	0.017
Dibromochloromethane	ND	0.022	0.022	1,1,2-Trichloroethane	ND	0.017	0.017
Dichlorodifluoromethane	ND	0.019	0.019	Trichloroethene	ND	0.017	0.017
1,2- Dichlorobenzene	ND	0.015	0.015	Trichlorofluoromethane	ND	0.016	0.016
1,3- Dichlorobenzene	ND	0.015	0.015	Vinyl Chloride	ND	0.036	0.036
1,4- Dichlorobenzene	ND	0.015	0.015				
1,1-Dichloroethane	ND	0.023	0.023				
1,2-Dichloroethane	ND	0.023	0.023				
1,1-Dichloroethene	ND	0.023	0.023				
cis-1,2-Dichloroethene	ND	0.023	0.023				

Surrogate	Recovery (%)
Bromochloromethane	107

1. Results are reported in ppmV
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #I-2346)

Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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

SECOR International
1390 Willow Pass Road, Suite 360
Concord, CA 94520
Attn: Greg Hoehn

Date: 10/27/99
Date Received: 10/20/99
Project: 007.03788.008
PO #:
Sampled By: Client

Certified Analytical Report

Air Sample Analysis:

Sample ID	**EFFL**			**INFL**							
Sample Date	10/19/99			10/19/99							
Sample Time	16:00			16:10							
Lab #	**17026-001**			**17026-002**							
	Result	DF	DLR	Result	DF	DLR				PQL	Method
Results in mg/m^3:											
Analysis Date	10/20/99			10/20/99							
Mineral Spirits	**11**	1.0	10	**50**	1.0	10				10	8015M
Benzene	**ND**	1.0	0.10	**ND**	1.0	0.10				0.10	8020
Toluene	**0.10**	1.0	0.10	**0.18**	1.0	0.10				0.10	8020
Ethyl Benzene	**ND**	1.0	0.10	**ND**	1.0	0.10				0.10	8020
Xylenes (total)	**ND**	1.0	0.30	**ND**	1.0	0.30				0.30	8020

DF=Dilution Factor ND= None Detected above DLR PQL=Practical Quantitation Limit DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

Michelle L. Anderson, Lab Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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

SECOR International
1390 Willow Pass Road, Suite 360
Concord, CA 94520
Attn: Greg Hoehn

Date: 10/27/99
Date Received: 10/20/99
Project: 007.03788.008
PO #:
Sampled By: Client

Certified Analytical Report

Air Sample Analysis:

Sample ID	**EFFL**			**INFL**							
Sample Date	10/19/99			10/19/99							
Sample Time	16:00			16:10							
Lab #	**17026-001**			**17026-002**							
	Result	DF	DLR	Result	DF	DLR				PQL	Method
Results in ppmV:											
Analysis Date	10/20/99			10/20/99							
Mineral Spirits	**2.6**	1.0	2.4	**12**	1.0	2.4				2.4	8015M
Benzene	**ND**	1.0	0.029	**ND**	1.0	0.029				0.029	8020
Toluene	**0.024**	1.0	0.024	**0.044**	1.0	0.024				0.024	8020
Ethyl Benzene	**ND**	1.0	0.021	**ND**	1.0	0.021				0.021	8020
Xylenes (total)	**ND**	1.0	0.063	**ND**	1.0	0.063				0.063	8020

DF=Dilution Factor ND= None Detected above DLR PQL=Practical Quantitation Limit DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

Michelle L. Anderson, Lab Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography - Volatile Organics
Laboratory Control Spikes

QC Batch #: VOC1W991021
Matrix: Liquid
Units: µg/L

Date Analyzed: 10/21/99
Quality Control Sample: Blank Spike

PARAMETER	Method #	SA µg/L	SR µg/L	SP µg/L	SP % R	SPD µg/L	SPD %R	RPD %	QC LIMITS RPD	QC LIMITS %R
Benzene	602/8020	40	ND	42	**105**	41	**102**	2.7	25	75-124
Chlorobenzene	601/8010	40	ND	46	**114**	45	**113**	0.7	25	78-123
1,1-Dichloroethane	601/8010	40	ND	46	**114**	46	**114**	0.2	25	83-133
Toluene	602/8020	40	ND	32	**79**	31	**77**	3.2	25	68-119
Trichloroethene	601/8010	40	ND	46	**115**	41	**103**	11.1	25	55-143
Bromochloromethane	601/8010		104%	100%		102%				65-135
Fluorobenzene	602/8020		113%	109%		107%				65-135

Definition of Terms:

na: Not Analyzed in QC batch
SA: Spike Added
SR: Sample Result
RPD(%): Duplicate Analysis - Relative Percent Difference
SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike Duplicate % Recovery
NC: Not Calculated

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography
Laboratory Control Sample

QC Batch #: GBG2991020
Matrix: Water
Units: µg/Liter

Date Analyzed: 10/20/99
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	SP % R	SPD µg/Liter	SPD %R	RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<0.50	4.0	ND	3.5	**88**	3.9	**98**	10.2	25	67-115
Toluene	8020	<0.50	25.7	ND	24	**94**	26	**100**	7.0	25	82-122
Ethyl Benzene	8020	<0.50	5.2	ND	5.0	**97**	5.4	**104**	6.7	25	77-114
Xylenes	8020	<0.50	27.9	ND	28	**101**	30	**107**	5.2	25	85-125
Gasoline	8015	<50.0	500	ND	488	**98**	522	**104**	6.7	25	75-125
aaa-TFT(S.S.)-PID	8020			98%	99%		101%				65-135
aaa-TFT(S.S.)-FID	8015			104%	101%		105%				65-135

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R): Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R): Spike % Recovery
- nc: Not Calculated

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
Address: 1390 Willow Pass Rd. Ste. 360
Concord, CA 94520

☐ Additional documents are attached, and are a part of this Record.

Job Name: Safety-Kleen
Location: 400 Market St.
Oakland, CA

Project # 007.03788.008 Task #
Project Manager Gregg Hoehn
Laboratory Entech
Turnaround Time Standard

Sampler's Name Charles Melancon
Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles BTEX 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TPH-mineral spirits 8015 (mod.)		Comments/ Instructions	Number of Containers
EFFL	10/18-99	16:00	Air					X		X						X		17026-001	1
INFL	10/18-99	16:10	Air					X		X						X		-002	1

Per G. Hoehn @ 10/20/99

Special Instructions/Comments:

Relinquished by:
Sign
Print Charles Melancon
Company SECOR
Time 7:00 Date 10-19-99

Relinquished by:
Sign
Print JEFF GRIMES
Company World Courier
Time 1115 Date 10/20/99

Received by: JEFF GRIMES
Sign
Print JEFF GRIMES
Company World Courier
Time 0950 Date 10/20/99

Received by: Paulina Thai
Sign
Print PAULINA THAI
Company ENTECH
Time 1115 Date 10/20/99

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

Date: 10, 18, 99 Page 1 of 1

APPENDIX C
LABORATORY REPORTS – GROUNDWATER SAMPLES

Quarterly Progress Report (July - September 1999)
SECOR International Incorporated
1390 Willow Pass Road, Suite 360
Concord, CA 94520
SECOR Job No. 007.50809.003
December 21, 1999

safety-kleen ®
Allan A. Manteuffel Technical Center

November 2, 1999

Mr. Greg Hoehn
Secor International
1390 Willow Pass Road
Suite 360
Concord, CA 94520

Re: SK Lab Project #99-249
Project ID Name: Oakland, CA

Dear Greg:

Enclosed please find the analytical results for the sample received by SK Environmental Laboratory on 10/12/99.

A formal Quality Control/Quality Assurance program is maintained by Safety-Kleen, which is designed to meet or exceed the EPA requirements. This information is available upon request.

This report may not be reproduced except in its entirety.

If you have any questions concerning this analysis, or if we can be of further assistance, please contact me at 773-825-7068.

Sincerely,

Ian H. Graske
Project Manager

P.O. Box 92050
Elk Grove Village, IL
60009-2050

12555 W. Old Higgins Road
Elk Grove Village, IL 60007
Telephone: 773/694-2700
Fax: 773/825-7850

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		01	02	03	04
Collector's Sample #		MW-1	MW-2	MW-3	MW-4
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/15/1999	10/15/1999	10/15/1999	10/18/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
Acetone	4	<4	<4	<4	**5.4**
Acetonitrile	10	<10	<10	<10	<10
Acrylonitrile	3	<3	<3	<3	<3
Allyl Chloride	2	<2	<2	<2	<2
Benzene	1	<1	<1	<1	<1
Benzyl Chloride	1	<1	<1	<1	<1
Bromobenzene	1	<1	<1	<1	<1
Bromochloromethane	1	<1	<1	<1	<1
Bromodichloromethane	1	<1	<1	<1	<1
Bromoform	1	<1	<1	<1	<1
Bromomethane	2	<2	<2	<2	<2
2-Butanone	4	<4	<4	<4	<4
n-Butylbenzene	1	<1	<1	<1	<1
sec-Butylbenzene	1	<1	<1	<1	<1
tert-Butylbenzene	1	<1	<1	<1	<1
Carbon Disulfide	1	<1	<1	<1	<1
Carbon Tetrachloride	0.5 *	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	1	<1	<1	<1	<1
Chlorodibromomethane	1	<1	<1	<1	<1
Chloroethane	1	<1	<1	<1	<1
2-Chloroethyl vinyl ether	4	<4	<4	<4	<4

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		01	02	03	04
Collector's Sample #		MW-1	MW-2	MW-3	MW-4
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/15/1999	10/15/1999	10/15/1999	10/18/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
Chloroform	1	<1	<1	<1	<1
Chloromethane	1	<1	<1	<1	<1
2-Chlorotoluene	1	<1	<1	<1	<1
4-Chlorotoluene	1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	1	<1	<1	<1	<1
1,2-Dibromoethane	1	<1	<1	<1	<1
Dibromomethane	1	<1	<1	<1	<1
1,2-Dichlorobenzene	1	<1	<1	<1	<1
1,3-Dichlorobenzene	1	<1	<1	<1	<1
1,4-Dichlorobenzene	1	<1	<1	<1	<1
1,4-Dichloro-2-butene	1	<1	<1	<1	<1
Dichlorodifluoromethane	1	<1	<1	<1	<1
1,1-Dichloroethane	1	<1	<1	<1	<1
1,2-Dichloroethane	0.5 *	<0.5	**1.7**	<0.5	<0.5
1,1-Dichloroethene	1	<1	<1	<1	**33.8 ****
cis-1,2-Dichloroethene	1	<1	**3.3**	<1	**12.8**
trans-1,2-Dichloroethene	1	<1	<1	<1	<1
1,2-Dichloropropane	1	<1	<1	<1	<1
1,3-Dichloropropane	1	<1	<1	<1	<1
2,2-Dichloropropane	1	<1	<1	<1	<1
cis-1,3-Dichloropropene	0.5 *	<0.5	<0.5	<0.5	<0.5

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		01	02	03	04
Collector's Sample #		MW-1	MW-2	MW-3	MW-4
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/15/1999	10/15/1999	10/15/1999	10/18/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
trans-1,3-Dichloropropene	0.5 *	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	1	<1	<1	<1	<1
Ethyl methacrylate	1	<1	<1	<1	<1
2-Hexanone	3	<3	<3	<3	<3
Hexachlorobutadiene	1	<1	<1	<1	<1
Iodomethane	1	<1	<1	<1	<1
Isobutyl Alcohol	50	<50	<50	<50	<50
Isopropylbenzene	1	<1	<1	<1	<1
p-Isopropyltoluene	1	<1	<1	<1	<1
Methacrylonitrile	1	<1	<1	<1	<1
4-Methyl-2-pentanone	1	<1	<1	<1	<1
Methylene Chloride	1	<1	<1	<1	<1
Methyl methacrylate	1	<1	<1	<1	<1
Methyl-tert-butyl ether	1	<1	<1	<1	<1
Naphthalene	1	**1.0**	<1	<1	**1.8**
n-Propylbenzene	1	<1	<1	<1	<1
Styrene	1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1
Tetrachloroethene	1	<1	<1	<1	<1
Toluene	1	**1.2**	<1	<1	**1.5**

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		01	02	03	04
Collector's Sample #		MW-1	MW-2	MW-3	MW-4
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/15/1999	10/15/1999	10/15/1999	10/18/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
1,2,3-Trichlorobenzene	1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	1	<1	<1	<1	<1
1,1,1-Trichloroethane	1	<1	<1	<1	**1.8**
1,1,2-Trichloroethane	1	<1	<1	<1	<1
Trichloroethene	1	<1	**13.8**	<1	**75.2 ****
Trichlorofluoromethane	1	<1	<1	<1	<1
1,2,3-Trichloropropane	1	<1	<1	<1	<1
1,1,2-Trichloro-1,2,2-trifluoroethane	1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	1	**1.3**	<1	<1	**1.4**
1,3,5-Trimethylbenzene	1	<1	<1	<1	<1
Vinyl Acetate	1	<1	<1	<1	<1
Vinyl Chloride	0.5 *	<0.5	<0.5	<0.5	<0.5
m+p-Xylenes	1	**1.9**	**1.3**	**1.2**	**2.1**
o-Xylene	1	**1.8**	**1.3**	**1.3**	**1.9**

* Analysis performed at the MDL level.

** Diluted so result is within the calibration curve.

Report Review / Date: 11-2-99

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		05	06	07	08
Collector's Sample #		MW-5	MW-6	MW-8	MW-9
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/14/1999	10/14/1999	10/14/1999	10/14/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit ug/L	Concentration µg/L			
Acetone	4	<4	**4.5**	<4	**6.5**
Acetonitrile	10	<10	<10	<10	<10
Acrylonitrile	3	<3	<3	<3	<3
Allyl Chloride	2	<2	<2	<2	<2
Benzene	1	<1	<1	<1	**13.1**
Benzyl Chloride	1	<1	<1	<1	<1
Bromobenzene	1	<1	<1	<1	<1
Bromochloromethane	1	<1	<1	<1	<1
Bromodichloromethane	1	<1	<1	<1	<1
Bromoform	1	<1	<1	<1	<1
Bromomethane	2	<2	<2	<2	**2.9**
2-Butanone	4	<4	<4	<4	<4
n-Butylbenzene	1	<1	<1	<1	**3.1**
sec-Butylbenzene	1	<1	<1	<1	**9.7**
tert-Butylbenzene	1	<1	<1	<1	<1
Carbon Disulfide	1	<1	<1	<1	**2.3**
Carbon Tetrachloride	0.5 *	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	1	<1	<1	<1	**14.2**
Chlorodibromomethane	1	<1	<1	<1	<1
Chloroethane	1	<1	<1	<1	**1.1**
2-Chloroethyl vinyl ether	4	<4	<4	<4	<4

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		05	06	07	08
Collector's Sample #		MW-5	MW-6	MW-8	MW-9
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/14/1999	10/14/1999	10/14/1999	10/14/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
Chloroform	1	**8.4**	<1	<1	<1
Chloromethane	1	<1	<1	<1	<1
2-Chlorotoluene	1	<1	<1	<1	**6.3**
4-Chlorotoluene	1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	1	<1	<1	<1	<1
1,2-Dibromoethane	1	<1	<1	<1	<1
Dibromomethane	1	<1	<1	<1	<1
1,2-Dichlorobenzene	1	<1	<1	**1.0**	**44.6 ****
1,3-Dichlorobenzene	1	<1	<1	<1	**2.3**
1,4-Dichlorobenzene	1	<1	<1	<1	**12.9**
1,4-Dichloro-2-butene	1	<1	<1	<1	<1
Dichlorodifluoromethane	1	<1	<1	<1	<1
1,1-Dichloroethane	1	<1	<1	<1	**36.7**
1,2-Dichloroethane	0.5 *	<0.5	<0.5	**1.0**	**2.8**
1,1-Dichloroethene	1	<1	<1	**30.8**	**5.6**
cis-1,2-Dichloroethene	1	<1	<1	**16.6**	**14.1**
trans-1,2-Dichloroethene	1	<1	<1	**1.4**	<1
1,2-Dichloropropane	1	<1	<1	<1	<1
1,3-Dichloropropane	1	<1	<1	<1	<1
2,2-Dichloropropane	1	<1	<1	<1	<1
cis-1,3-Dichloropropene	0.5 *	<0.5	<0.5	<0.5	<0.5

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		05	06	07	08
Collector's Sample #		MW-5	MW-6	MW-8	MW-9
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/14/1999	10/14/1999	10/14/1999	10/14/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit ug/L	Concentration µg/L			
trans-1,3-Dichloropropene	0.5 *	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	1	<1	<1	<1	**9.0**
Ethyl methacrylate	1	<1	<1	<1	<1
2-Hexanone	3	<3	<3	<3	<3
Hexachlorobutadiene	1	<1	<1	<1	<1
Iodomethane	1	<1	<1	<1	**1.2**
Isobutyl Alcohol	50	<50	<50	<50	<50
Isopropylbenzene	1	<1	<1	<1	**4.3**
p-Isopropyltoluene	1	<1	<1	<1	**3.8**
Methacrylonitrile	1	<1	<1	<1	<1
4-Methyl-2-pentanone	1	<1	<1	<1	<1
Methylene Chloride	1	<1	<1	<1	<1
Methyl methacrylate	1	<1	<1	<1	<1
Methyl-tert-butyl ether	1	<1	<1	<1	<1
Naphthalene	1	<1	<1	<1	**13.7**
n-Propylbenzene	1	<1	<1	<1	**7.4**
Styrene	1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1
Tetrachloroethene	1	<1	<1	<1	<1
Toluene	1	**1.1**	<1	<1	**9.0**

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		05	06	07	08
Collector's Sample #		MW-5	MW-6	MW-8	MW-9
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/14/1999	10/14/1999	10/14/1999	10/14/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
1,2,3-Trichlorobenzene	1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	1	<1	<1	<1	<1
1,1,1-Trichloroethane	1	<1	<1	**1.6**	**2.6**
1,1,2-Trichloroethane	1	<1	<1	<1	<1
Trichloroethene	1	**2.0**	<1	**278 ****	**92.3 ****
Trichlorofluoromethane	1	<1	<1	<1	<1
1,2,3-Trichloropropane	1	<1	<1	<1	<1
1,1,2-Trichloro-1,2,2-trifluoroethane	1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	1	**1.0**	<1	**1.1**	**37.2 ****
1,3,5-Trimethylbenzene	1	<1	<1	<1	**3.2**
Vinyl Acetate	1	<1	<1	<1	<1
Vinyl Chloride	0.5 *	<0.5	<0.5	**1.4 *****	**86.5 ****
m+p-Xylenes	1	**1.6**	**1.5**	**1.2**	**7.7**
o-Xylene	1	**1.6**	**1.3**	**1.2**	**23.5**

* Analysis performed at the MDL level.

** Diluted so result is within the calibration curve.

*** Result may be biased high due to high recovery for this compound in the spike standard.

Report Review / Date: 11-2-99

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		09	10	11	12
Collector's Sample #		MW-12	MW-13	RW-1	Dup-1
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/18/1999	10/18/1999	10/18/1999	10/18/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
Acetone	4	<4	<4	**7.0**	<4
Acetonitrile	10	<10	<10	**11.1**	<10
Acrylonitrile	3	<3	<3	<3	<3
Allyl Chloride	2	<2	<2	<2	<2
Benzene	1	<1	<1	**5.4**	<1
Benzyl Chloride	1	<1	<1	<1	<1
Bromobenzene	1	<1	<1	<1	<1
Bromochloromethane	1	<1	<1	<1	<1
Bromodichloromethane	1	<1	<1	<1	<1
Bromoform	1	<1	<1	<1	<1
Bromomethane	2	<2	<2	<2	<2
2-Butanone	4	<4	<4	<4	<4
n-Butylbenzene	1	<1	<1	<1	<1
sec-Butylbenzene	1	<1	<1	**1.9**	<1
tert-Butylbenzene	1	<1	<1	<1	<1
Carbon Disulfide	1	<1	<1	<1	<1
Carbon Tetrachloride	0.5 *	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	1	<1	<1	**6.1**	<1
Chlorodibromomethane	1	<1	<1	<1	<1
Chloroethane	1	<1	<1	**3.0**	<1
2-Chloroethyl vinyl ether	4	<4	<4	<4	<4

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		09	10	11	12
Collector's Sample #		MW-12	MW-13	RW-1	Dup-1
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/18/1999	10/18/1999	10/18/1999	10/18/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
Chloroform	1	<1	<1	<1	<1
Chloromethane	1	<1	<1	<1	<1
2-Chlorotoluene	1	<1	<1	**6.5**	<1
4-Chlorotoluene	1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	1	<1	<1	<1	<1
1,2-Dibromoethane	1	<1	<1	<1	<1
Dibromomethane	1	<1	<1	<1	<1
1,2-Dichlorobenzene	1	<1	<1	**42.8 ****	**1.3**
1,3-Dichlorobenzene	1	<1	<1	**2.5**	<1
1,4-Dichlorobenzene	1	<1	<1	**16.4**	<1
1,4-Dichloro-2-butene	1	<1	<1	<1	<1
Dichlorodifluoromethane	1	<1	<1	<1	<1
1,1-Dichloroethane	1	**1.4**	<1	**15.6**	<1
1,2-Dichloroethane	0.5 *	<0.5	<0.5	<0.5	**1.0**
1,1-Dichloroethene	1	<1	<1	**1.2**	**30.9**
cis-1,2-Dichloroethene	1	**1.5**	<1	<1	**16.9**
trans-1,2-Dichloroethene	1	<1	<1	<1	<1
1,2-Dichloropropane	1	<1	<1	<1	<1
1,3-Dichloropropane	1	<1	<1	<1	<1
2,2-Dichloropropane	1	<1	<1	<1	<1
cis-1,3-Dichloropropene	0.5 *	<0.5	<0.5	<0.5	<0.5

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		09	10	11	12
Collector's Sample #		MW-12	MW-13	RW-1	Dup-1
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/18/1999	10/18/1999	10/18/1999	10/18/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
trans-1,3-Dichloropropene	0.5 *	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	1	<1	<1	**4.9**	<1
Ethyl methacrylate	1	<1	<1	<1	<1
2-Hexanone	3	<3	<3	<3	<3
Hexachlorobutadiene	1	<1	<1	<1	<1
Iodomethane	1	<1	<1	<1	<1
Isobutyl Alcohol	50	<50	<50	<50	<50
Isopropylbenzene	1	<1	<1	**2.1**	<1
p-Isopropyltoluene	1	<1	<1	**3.3**	<1
Methacrylonitrile	1	<1	<1	<1	<1
4-Methyl-2-pentanone	1	<1	<1	<1	<1
Methylene Chloride	1	<1	<1	<1	<1
Methyl methacrylate	1	<1	<1	<1	<1
Methyl-tert-butyl ether	1	<1	<1	**1.3**	<1
Naphthalene	1	**1.2**	<1	**38.9** **	**2.4**
n-Propylbenzene	1	<1	<1	**3.2**	<1
Styrene	1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	<1	<1	<1	<1
Tetrachloroethene	1	<1	<1	<1	<1
Toluene	1	<1	<1	**5.2**	<1

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #		09	10	11	12
Collector's Sample #		MW-12	MW-13	RW-1	Dup-1
Date Sampled		10/8/1999	10/8/1999	10/8/1999	10/8/1999
Date Analyzed		10/18/1999	10/18/1999	10/18/1999	10/18/1999
Dilution Factor		1	1	1	1
Analyte	Report Limit µg/L	Concentration µg/L			
1,2,3-Trichlorobenzene	1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	1	<1	<1	<1	<1
1,1,1-Trichloroethane	1	<1	<1	<1	**2.2**
1,1,2-Trichloroethane	1	<1	<1	<1	<1
Trichloroethene	1	**21.4**	<1	**10.1**	**168 ****
Trichlorofluoromethane	1	<1	<1	<1	<1
1,2,3-Trichloropropane	1	<1	<1	<1	<1
1,1,2-Trichloro-1,2,2-trifluoroethane	1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	1	**1.0**	<1	**63.1 ****	<1
1,3,5-Trimethylbenzene	1	<1	<1	**32.2**	<1
Vinyl Acetate	1	<1	<1	<1	<1
Vinyl Chloride	0.5 *	<0.5	<0.5	**1.3**	<0.5
m+p-Xylenes	1	**1.7**	**1.6**	**10.1**	**1.5**
o-Xylene	1	**1.5**	**1.3**	**18.2**	**1.3**

* Analysis performed at the MDL level.

** Diluted so result is within the calibration curve.

Report Review / Date: 11-2-99

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #	13
Collector's Sample #	EB-1
Date Sampled	10/8/1999
Date Analyzed	10/18/1999
Dilution Factor	1

Analyte	Report Limit ug/L	Concentration ug/L
Acetone	4	**4.7**
Acetonitrile	10	<10
Acrylonitrile	3	<3
Allyl Chloride	2	<2
Benzene	1	<1
Benzyl Chloride	1	<1
Bromobenzene	1	<1
Bromochloromethane	1	<1
Bromodichloromethane	1	<1
Bromoform	1	<1
Bromomethane	2	<2
2-Butanone	4	<4
n-Butylbenzene	1	<1
sec-Butylbenzene	1	<1
tert-Butylbenzene	1	<1
Carbon Disulfide	1	<1
Carbon Tetrachloride	0.5 *	<0.5
Chlorobenzene	1	<1
Chlorodibromomethane	1	<1
Chloroethane	1	<1
2-Chloroethyl vinyl ether	4	<4

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #	13
Collector's Sample #	EB-1
Date Sampled	10/8/1999
Date Analyzed	10/18/1999
Dilution Factor	1

Analyte	Report Limit ug/L	Concentration ug/L
Chloroform	1	<1
Chloromethane	1	<1
2-Chlorotoluene	1	<1
4-Chlorotoluene	1	<1
1,2-Dibromo-3-chloropropane	1	<1
1,2-Dibromoethane	1	<1
Dibromomethane	1	<1
1,2-Dichlorobenzene	1	<1
1,3-Dichlorobenzene	1	<1
1,4-Dichlorobenzene	1	<1
1,4-Dichloro-2-butene	1	<1
Dichlorodifluoromethane	1	<1
1,1-Dichloroethane	1	<1
1,2-Dichloroethane	0.5 *	<0.5
1,1-Dichloroethene	1	<1
cis-1,2-Dichloroethene	1	<1
trans-1,2-Dichloroethene	1	<1
1,2-Dichloropropane	1	<1
1,3-Dichloropropane	1	<1
2,2-Dichloropropane	1	<1
cis-1,3-Dichloropropene	0.5 *	<0.5

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #	13
Collector's Sample #	EB-1
Date Sampled	10/8/1999
Date Analyzed	10/18/1999
Dilution Factor	1

Analyte	Report Limit µg/L	Concentration µg/L
trans-1,3-Dichloropropene	0.5 *	<0.5
Ethylbenzene	1	<1
Ethyl methacrylate	1	<1
2-Hexanone	3	<3
Hexachlorobutadiene	1	<1
Iodomethane	1	<1
Isobutyl Alcohol	50	<50
Isopropylbenzene	1	<1
p-Isopropyltoluene	1	<1
Methacrylonitrile	1	<1
4-Methyl-2-pentanone	1	<1
Methylene Chloride	1	<1
Methyl methacrylate	1	<1
Methyl-tert-butyl ether	1	<1
Naphthalene	1	<1
n-Propylbenzene	1	<1
Styrene	1	<1
1,1,1,2-Tetrachloroethane	1	<1
1,1,2,2-Tetrachloroethane	1	<1
Tetrachloroethene	1	<1
Toluene	1	**1.2**

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Volatile Organics in Water

EPA Method 8260B

Special Reporting List, Special Reporting Limits

Work Order #	13
Collector's Sample #	EB-1
Date Sampled	10/8/1999
Date Analyzed	10/18/1999
Dilution Factor	1

Analyte	Report Limit ug/L	Concentration ug/L
1,2,3-Trichlorobenzene	1	<1
1,2,4-Trichlorobenzene	1	<1
1,1,1-Trichloroethane	1	<1
1,1,2-Trichloroethane	1	<1
Trichloroethene	1	<1
Trichlorofluoromethane	1	<1
1,2,3-Trichloropropane	1	<1
1,1,2-Trichloro-1,2,2-trifluoroethane	1	<1
1,2,4-Trimethylbenzene	1	<1
1,3,5-Trimethylbenzene	1	<1
Vinyl Acetate	1	<1
Vinyl Chloride	0.5 *	<0.5
m+p-Xylenes	1	**1.9**
o-Xylene	1	**1.5**

* Analysis performed at the MDL level.

Report Review / Date: 11-2-99

Project ID #: 007.03788.007

Project ID Name: Oakland, CA

SK Lab Project #: 99-249

Date Reported: 11/2/1999

ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Mineral Spirits in Water

Modified EPA Method 8015B

Report Limit: 50 ug/L

Work Order #	Collector's Sample #	Date Sampled	Date Analyzed	Concentration ug/L
01	MW-1	10/8/1999	10/12/1999	<50
02	MW-2	10/8/1999	10/12/1999	<50
03	MW-3	10/8/1999	10/12/1999	<50
04	MW-4	10/8/1999	10/12/1999	<50
05	MW-5	10/8/1999	10/12/1999	<50
06	MW-6	10/8/1999	10/12/1999	<50
07	MW-8	10/8/1999	10/12/1999	<50
08	MW-9	10/8/1999	10/14/1999	**3200 @**
09	MW-12	10/8/1999	10/20/1999	<50
10	MW-13	10/8/1999	10/12/1999	<50
11	RW-1	10/8/1999	10/20/1999	**890 ****
12	Dup-1	10/8/1999	10/12/1999	<50
13	EB-1	10/8/1999	10/12/1999	<50

** Diluted so result is within the calibration curve.

@ Sample was analyzed at a dilution but the result is still above the calibration curve. The result is reported as an estimated minimum concentration.

Report Review / Date: 11-2-99

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Total Manganese in Water

EPA Method 6010B

Report Limit: 0.010 mg/L

Work Order #	Collector's Sample #	Date Sampled	Date Analyzed	Concentration mg/L
01	MW-1	10/8/1999	10/13/1999	**0.880**
02	MW-2	10/8/1999	10/13/1999	**0.352**
03	MW-3	10/8/1999	10/13/1999	**0.659**
04	MW-4	10/8/1999	10/13/1999	**1.28**
05	MW-5	10/8/1999	10/13/1999	**1.46**
06	MW-6	10/8/1999	10/13/1999	**0.085**
07	MW-8	10/8/1999	10/13/1999	**0.141**
08	MW-9	10/8/1999	10/13/1999	**4.37**
09	MW-12	10/8/1999	10/13/1999	**0.907**
10	MW-13	10/8/1999	10/13/1999	**0.034**
11	RW-1	10/8/1999	10/13/1999	**7.51**

Report Review / Date: 11-2-99

Project ID #: 007.03788.007
Project ID Name: Oakland, CA
SK Lab Project #: 99-249
Date Reported: 11/2/1999

ANALYTICAL RESULTS

Total Chloride in Water

Method SK 9601 (Neat)

Report Limit: 0.80 mg/L

Work Order #	Collector's Sample #	Date Sampled	Date Analyzed	Concentration mg/L
01	MW-1	10/8/1999	10/13/1999	**15.8**
02	MW-2	10/8/1999	10/13/1999	**31.3**
03	MW-3	10/8/1999	10/13/1999	**6.0**
04	MW-4	10/8/1999	10/13/1999	**50.4**
05	MW-5	10/8/1999	10/13/1999	**18.0**
06	MW-6	10/8/1999	10/13/1999	**40.6**
07	MW-8	10/8/1999	10/15/1999	**37.6**
08	MW-9	10/8/1999	10/14/1999	**44.5**
09	MW-12	10/8/1999	10/14/1999	**54.3**
10	MW-13	10/8/1999	10/14/1999	**67.8**
11	RW-1	10/8/1999	10/14/1999	**30.4**

Report Review / Date: 11-2-99

99-049
2C1 / VOA
7 DAYS

Chain-of Custody Number: [redacted]

SECOR Chain-of Custody Record

☒ Additional documents are attached, and are a part of this [redacted]d.

Field Office: Concord
Address: 1390 Willow Pass Rd, Ste. 360
Concord, CA 94520

Job Name: Safety-Kleen
Location: 400 Market St.
Oakland, CA

Project # 007.03788.007 Task #
Project Manager Greg Hoehn
Laboratory Safety Kleen
Turnaround Time Standard

Sampler's Name Charles Meluncon
Sampler's Signature [signature]

Analysis Request

	Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified) Mineral Spirits	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8260 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Manganese	Chloride	Comments/ Instructions	Number of Containers
01	MW-1	10-8-99	12:30	H_2O			X			X	~~X~~						X	X	temp 3.4 9951639	7 (2 Pl, 5 V)
02	MW-2	↓	13:30	↓			X			X	~~X~~						X	X	9951640	7
03	MW-3		11:30				X			X	~~X~~						X	X	641	7
04	MW-4		15:30				X			X	~~X~~						X	X	642	7
05	MW-5		10:30				X			X	~~X~~						X	X	643	7
06	MW-6		9:30				X			X	~~X~~						X	X	644	7
07	MW-8		16:30				X			X	~~X~~						X	X	645	7
08	MW-9		18:00				X			X	~~X~~						X	X	646	7
09	MW-12		14:30				X			X	~~X~~						X	X	647	7
10	MW-13	↓	8:30	↓			X			X	~~X~~						X	X	648	7

Special Instructions/Comments:
5 x VOA pH < 2
1 poly Cl⁻
1 poly metals → pH < 2
} water

EB-1 One Broke VOA. Received upon arrival

Relinquished by: [signature]
Sign [signature]
Print Charles Meluncon
Company SECOR
Time 10:00 Date 10-11-99

Received by: L. Latiok
Sign L. Latiok
Print L. Latiok
Company Fedex
Time 11:20 Date 10/11

Relinquished by:
Sign
Print
Company
Time Date

Received by: Maria Mendoza
Sign
Print
Company
Time 10:00 Date 10-12-99

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

Date: 10/8/99 Page 1 of 2

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
Address: 1390 Willow Pass Rd, Ste. 360
Concord, CA 94521

☐ Additional documents are attached, and are a part of this Record.

Job Name: Safety-Kleen
Location: 400 Market St.
Oakland, CA

Project # 007.03788.007 Task #
Project Manager Greg Hoehn
Laboratory Safety-Kleen
Turnaround Time Standard

Sampler's Name Charles Mahuron
Sampler's Signature

Analysis Request

	Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/MTPH-D 8015 (modified) Mineral Spirits	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8260 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Manganese	Chloride	Comments/ Instructions	Number of Containers
11	BW-1	10-8-99	17:30	H_2O			X			X	X						X	X	9951649	7
12	Dup-1	↓		↓			X			X	X								651	5 - VOA
13	EB-1	↓		↓			X			X	X								652	5 - VOA
																				4

Special Instructions/Comments:

Relinquished by:
Sign
Print Charles Mahuron
Company SECOR
Time 10:00 Date 10-11-99

Received by: L. Lahar
Sign L. Lahar
Print L. Lahar
Company Fedex
Time 11:22 Date 10/11

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time Date

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

Date: 10, 8, 99 Page 2 of 2