



Lakewood/Plaza Cleaners July 23-24, 1997

Summary

This document is one in a series describing the results of ground water sampling at Lakewood/Plaza Cleaners. Ecology has conducted semi-annual ground water sampling at the site since 1991. The objective of this sampling is to collect ground water quality data for the Toxics Cleanup Program to evaluate the effectiveness of Lakewood supply wells H1 and H2 (Figure 1) to contain and remove contaminated ground water caused by Plaza Cleaners. Samples were collected on July 23-24, 1997 from one municipal well (H2) and seven monitoring wells: MW-16A, MW-20A, MW-20B, MW-27, MW-31, MW-33, and MW-19A (Figure 1). All samples were analyzed for volatile organics (VOAs). The quality assurance review and laboratory reporting sheets are presented in Appendix A.

Monitoring wells MW-20B and MW-16A, as well as municipal well H2, continue to have elevated PERC concentrations. PERC concentrations in these wells were: MW-20B (222 µg/L), MW-16A (47 µg/L) and H2 (8.8 µg/L). Cis-1,2-DCE was also detected in wells MW-20B and MW-16A at concentrations of 6.4 µg/L and 2.5 µg/L, respectively. TCE was detected in MW-20B at a concentration of 4 µg/L. Model Toxic Control Act (MTCA) cleanup levels were exceeded for PERC (5.0 µg/L) in MW-20B, MW-16A and H2. Overall, concentrations are similar to those reported in previous sample rounds.

Results

Field Observations

Table 1 lists field observation data for each of the sampled wells: static water level, pH, specific conductance, temperature, purged volume, well depth, and the geologic unit. Well MW-20A had a pH reading of 7.9 standard units, which is relatively high, but is consistent with previous measurements. High pH readings can be related to well construction. In the

case of MW-20A it is most likely caused by bentonite inadvertently being placed within the screened interval during well construction. The specific conductance in well MW-20B (365 umhos/cm), which is screened in a fine-grained till unit, was greater than the other wells. Specific conductance readings are typically higher for water from fine-grained units.

Laboratory Results

Table 2 summarizes laboratory results. The highest concentrations of tetrachloroethene (PERC) and cis-1,2-dichloroethene (cis-1,2-DCE) occurred in well MW-20B with 222 µg/L and 6.4 µg/L, respectively. Trichloroethene (TCE) was detected in MW-20B at a concentration of 4 µg/L. PERC and cis-1,2-DCE were also detected in MW-16A with concentrations of 47 µg/L and 2.5 µg/L, respectively. Municipal well H2 had a PERC concentration of 8.8 µg/L. PERC, TCE and cis-1,2-DCE were detected below the practical quantitation limit in the following wells: PERC was detected below 1 µg/L in wells MW-20A and MW-31; TCE was detected below 1 µg/L in wells MW-16A, MW-19A and H2; and cis-1,2-DCE was detected below 2 µg/L in wells MW-31 and H2.

Table 3 shows PERC, TCE, and cis-1,2-DCE concentrations for sampling events from January 1991 through July 1997. PERC and cis-1,2-DCE concentrations continue to be elevated in well MW-20B and MW-16A. Municipal wells H1/H2, which were added to the monitoring program in 1995, also have elevated PERC concentrations. Figure 2 shows PERC concentrations for MW-20B and MW-16A between 1984 and 1997. Since 1984, PERC concentrations in both wells have varied substantially. PERC concentrations decreased initially in MW-20B from March 1985 (4800 ppb) to May 1985 (570 ppb). Between May 1985 and November 1994, concentrations ranged between 86 ppb and 1,200 ppb. In July 1995 the monitoring program was shifted to a summer/winter rotation. Since then PERC concentrations in MW-20B have ranged between 222 ppb and 386 ppb. Over the monitoring period PERC concentrations in MW-16A have varied between 3 ppb and 110 ppb.

Methods

Ground Water Sampling

Samples were collected on July 23-24, 1997 from municipal well H2 and seven monitoring wells: MW-16A, MW-20A, MW-20B, MW-27, MW-31, MW-33, and MW-19A (Figure 1). Prior to sample collection, static water level measurements were obtained using an electronic water level probe. The probe was rinsed with deionized water after each use. All monitoring wells were purged a minimum of three well volumes and until pH, temperature, and specific conductance readings stabilized. Purge water was discharged to storm drains or to the ground near each well. All monitoring wells were purged and sampled using dedicated bladder pumps, except for MW-20B. Well MW-20B was purged and sampled with a decontaminated

teflon bailer. Municipal well H2, which pumps continuously, was sampled from a tap nearest the well. Samples collected for volatile organics were free of headspace and preserved with two drops of 1:1 hydrochloric acid.

The bailer was pre-cleaned with a Liquinox® wash and sequential rinses of hot tap water, 10% nitric acid, distilled/deionized water, and pesticide-grade acetone. After cleaning, the bailer was air-dried and wrapped in aluminum foil. Chain-of-custody procedures were followed in accordance with Manchester Laboratory protocol (Ecology, 1994).

Quality Assurance Samples

Quality control samples collected in the field for ground water monitoring consisted of a blind duplicate sample. A blind duplicate sample was collected from well MW-16A. Duplicate samples are two sets of samples collected from a well simultaneously and submitted to the laboratory with different identification. In addition to quality control samples collected in the field, laboratory quality control samples consisted of matrix spikes, matrix spike duplicates and surrogate compound recoveries. Volatile organic samples were analyzed using EPA SW-846 Method 8260 (U.S. EPA, 1986).

The quality of the data is acceptable for use. Volatile organic analyses were performed by the Manchester Laboratory. Karin Feddersen of the Manchester Laboratory conducted the quality assurance review. Duplicate samples collected at MW-16A provide an estimate of combined sampling and laboratory precision. The numeric comparison of duplicate results is expressed as the relative percent difference or RPD. RPDs are the ratio of the difference and the mean of the duplicate results expressed as a percentage. The RPDs for tetrachloroethene, trichloroethene and cis-1,2-dichloroethene were 7%, 6%, and 0%, respectively. All matrix spike and spike duplicate recoveries are within the QC limits of $\pm 25\%$ for water sample analysis.

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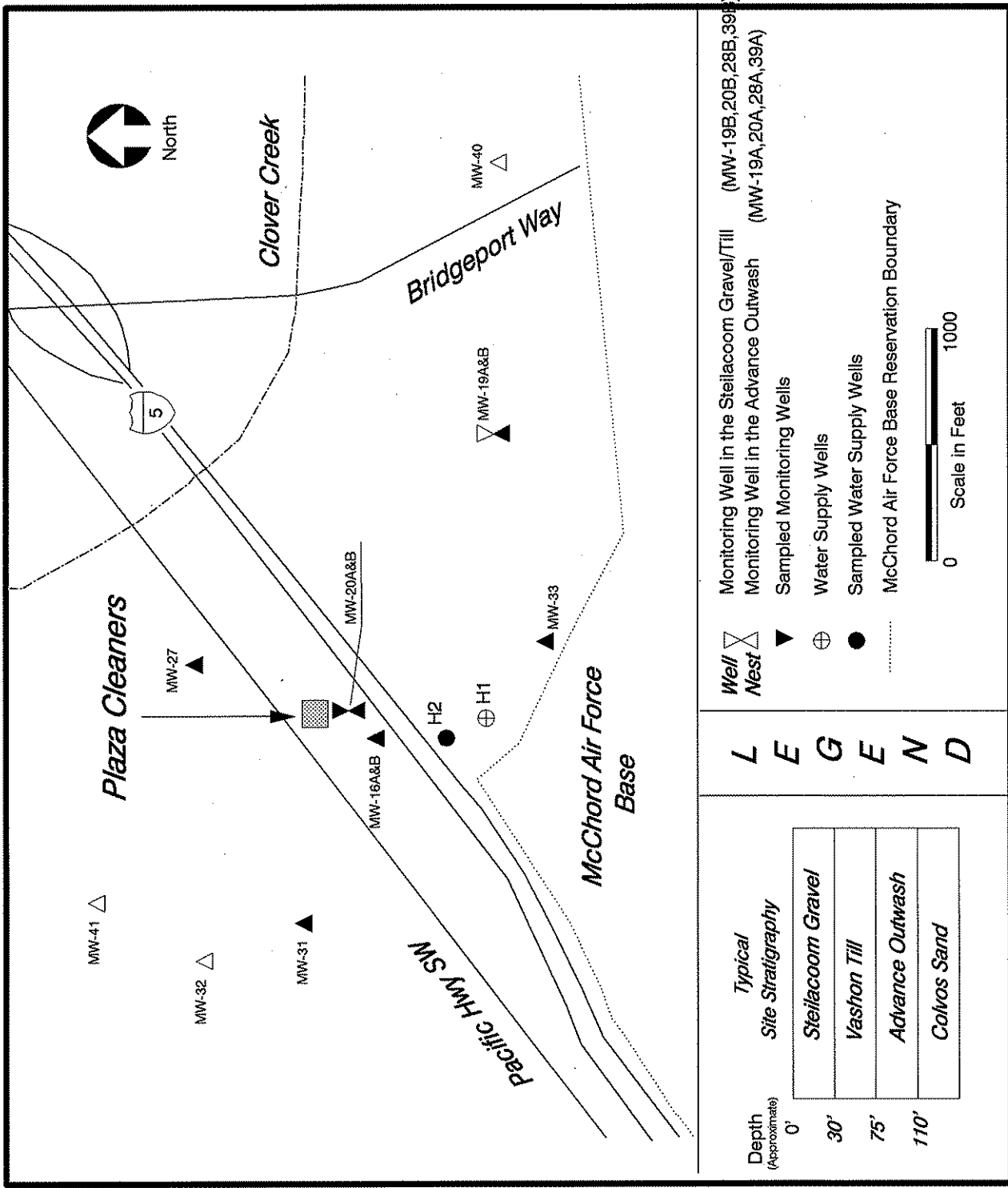


Figure 1: Well Location Map - Lakewood/Plaza Cleaners

Table 1: Field Parameter Results for July, 1997

Monitoring Well	Total Depth (Feet)	Geologic Unit Screened	Depth to Water (Feet)	pH (s.u.)	Specific Conductance (umhos/cm)	Temperature (°C)	Purge Volume (gallons)
MW-16A	109	Advance Outwash	39.07	6.0	260	12.8	152
MW-19A	97.5	Advance Outwash	35.94	6.5	208	11.6	30
MW-20A	97.3	Advance Outwash	30.78	7.9	245	12.3	33
MW-20B	50.4	Vashon Till	30.31	6.6	365	12.6	10
MW-27	96.4	Advance Outwash	++	5.7	195	12.2	30
MW-31	91.5	Advance Outwash	++	6.6	192	11.6	30
MW-33	99.3	Advance Outwash	++	6.6	220	11.0	30
H2	110	Advance Outwash	++	5.8	153	11.6	>1000

++ = Dedicated pump obstructs water-level measurement.

Table 2: Summary of Analytes Detected in Samples Collected July 23-24, 1997

Geologic Unit Screened	Vashon Till	Advance Outwash							Municipal Well H2
		MW-20B	MW-16A	MW-16B (Duplicate)	MW-20A	MW-27	MW-31	Upgradient Wells MW-33 MW-19A	
<u>Volatile Organics: (ug/L)</u>									
Tetrachloroethene (PERC)	222	47	44	0.34 J	1 U	0.89 J	1 U	1 U	8.8
Trichloroethene (TCE)	4	0.69 J	0.65 J	1 U	1 U	1 U	1 U	0.34 J	0.25 J
cis-1,2-Dichloroethene (cis-1,2-DCE)	6.4	2.5	2.5	2 U	2 U	0.92 J	2 U	2 U	0.61 J
1,1,1-Trichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
									Toluene 0.11J

U = The analyte was not detected at or above the reported value.

J = The analyte was positively identified. The associated numerical result is an estimate.

-- = Not Tested

█ = The analyte was positively identified.

Table 3: Summary of Sample Results (ug/L) from January 1991 to July 1997

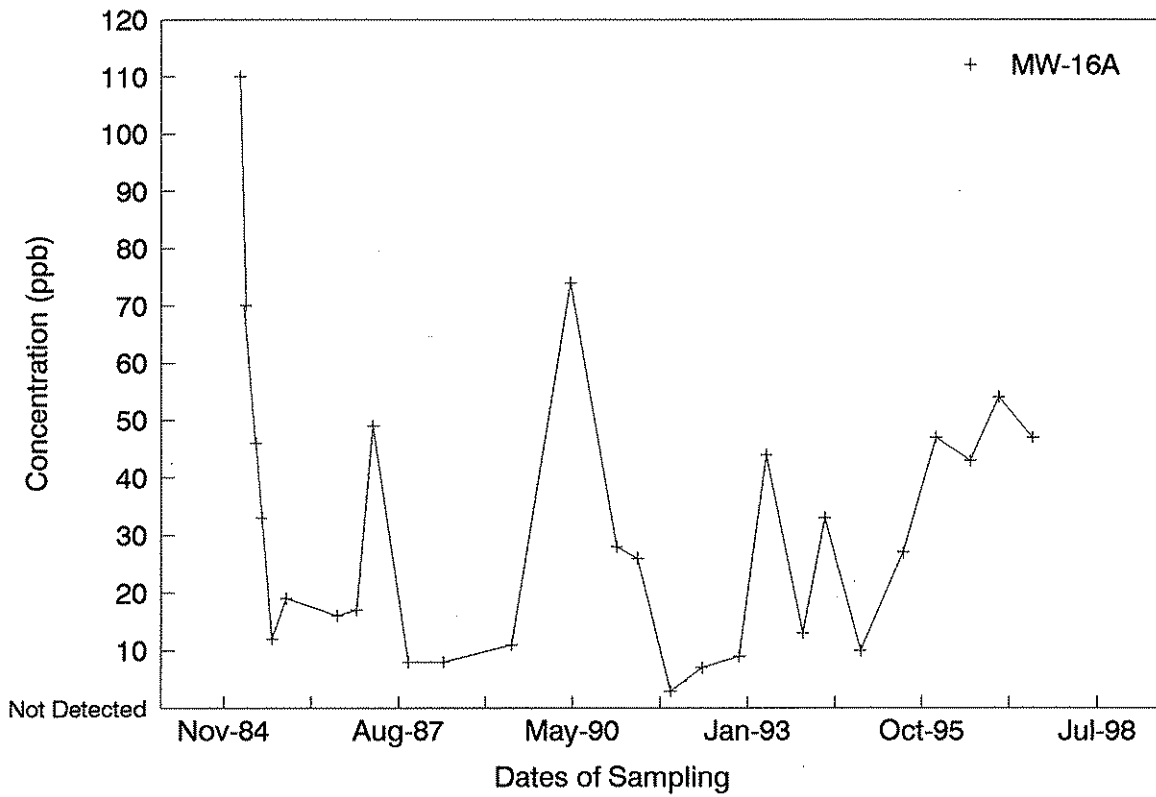
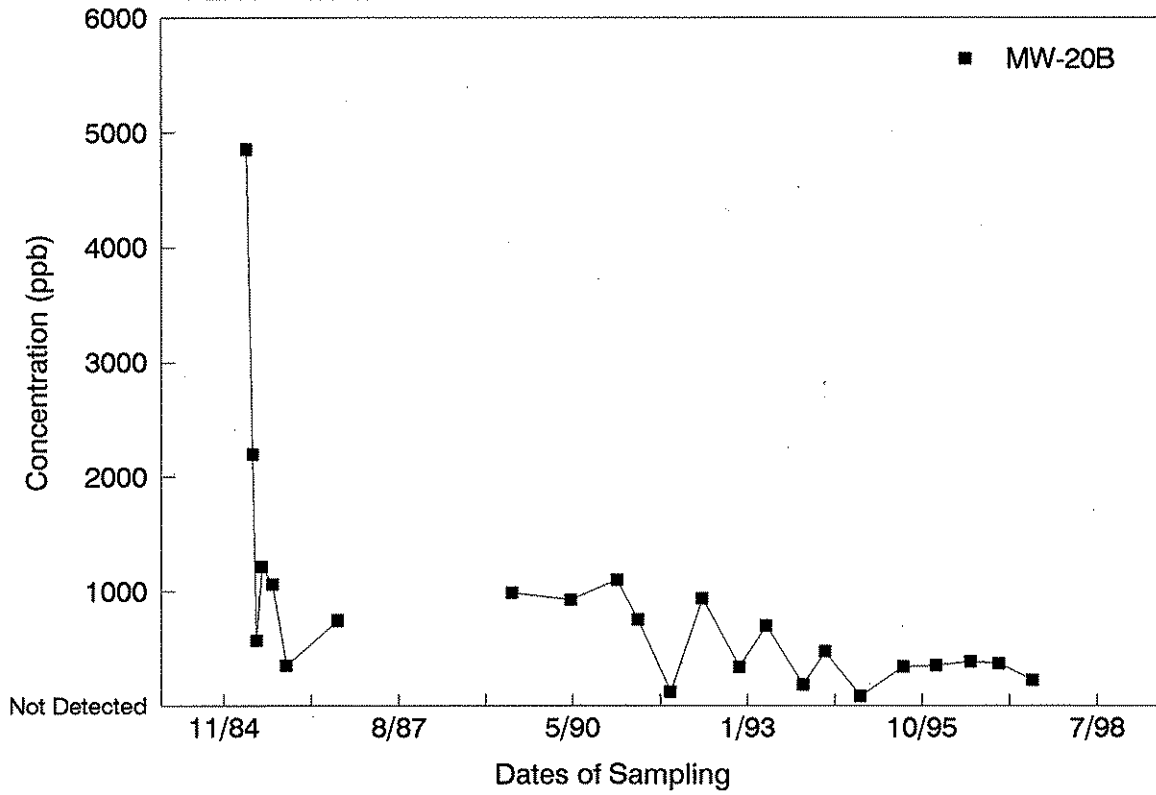
Well Number	January 1991		May 1991		November 1991		May 1992		December 1992		May 1993		December 1993	
	PERC	TCE	PERC	TCE	PERC	TCE	PERC	TCE	PERC	TCE	PERC	TCE	PERC	TCE
MW-16A	28	1.1	24	0.6 J	2.1 J	1 U	0.5 J	1 U	0.3 J	0.3 J	44	10 U	13	0.3 J
MW-20A	1 U	1 U	0.4 J	1 U	0.4 J	1 U	0.5 J	1 U	0.5 J	1 U	10 U	10 U	0.3 J	1 U
MW-20B	1100 D	33	352	16	320	2.6 J	6.7	340	14 J	20 J	700 D	12	100	50 U
MW-21	2.1 J	1 U	2	1 U	2.2 J	1 U	2	1 U	0.2 J	0.3 J	1 J	10 U	1.6	1 U
MW-27	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U
MW-28A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-31	1 J	1 U	0.6 J	1 U	0.9 J	1 U	0.3 J	1 U	0.5 J	1 U	10 U	10 U	0.8 J	1 U
MW-32	1 J	1 U	1 U	1 U	0.6 J	1 U	0.7 J	1 U	0.7 J	1 U	10 U	10 U	0.7 J	1 U
MW-41	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U
MW-19A	--	--	--	0.5 J	1 U	0.5 J	1 U	1 U	1 U	1 U	--	--	1 U	0.4
MW-33	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-40	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
HI/H2	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Well Number	April 1994		November 1994		July 1995		January 1996		July 1996		January 1997		July 1997	
	PERC	TCE	PERC	TCE	PERC	TCE	PERC	TCE	PERC	TCE	PERC	TCE	PERC	TCE
MW-16A	13	0.6	9.7	0.1 J	27	0.5 J	47	0.3 J	43	0.7 J	5.1	1.1	47	0.7 J
MW-20A	0.4	0.2 U	0.3 J	1 U	0.4 J	1 U	0.2 J	1 U	0.4 J	1 U	0.4 J	1 U	0.3 J	1 U
MW-20B	0.2	8.6 J	86	50 U	340 D	8.4	343	7.2	387	7.6	373	100 U	332	1 U
MW-21	1.5	0.2 J	1.4	0.2 J	0.3 J	0.3 J	--	--	Well Decommissioned	--	--	--	--	6.4
MW-27	0.2 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U
MW-28A	--	--	--	--	--	--	--	--	Well Decommissioned	--	--	--	--	--
MW-31	0.7	0.2 U	0.8 J	1 U	0.6 J	1 U	0.6 J	1 U	--	--	--	--	0.9 J	0.9 J
MW-32	0.7	0.2 U	0.6 J	1 U	0.7 J	1 U	0.8 J	1 U	--	--	--	--	--	--
MW-41	0.2 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--	--	--
MW-19A	0.2 U	0.5	0.2 U	0.4 J	1 U	0.4 J	1 U	1 U	--	--	--	--	1 U	0.3 J
MW-33	--	--	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-40	0.2 U	0.2 U	0.2 U	0.2 U	1 U	1 U	1 U	1 U	--	--	--	--	1 U	1 U
HI/H2	--	--	--	--	0.3 J	0.3 J	0.2 J	0.2 J	0.1 J	0.1 J	1.8	0.4 J	0.2 J	0.3 J

U = The analyte was not detected at or above the reported result.
 J = The analyte was positively identified. The associated numerical result is an estimate.
 UJ = The analyte was not detected at or above the reported estimated result.
 D = Analysis performed at secondary dilution.
 E = The concentration of the associated value exceeds the known calibration range.
 -- = Not Tested
 [Shaded Box] = The analyte was positively identified.

Figure 2

PERC Concentrations for Wells MW-20B and MW-16A from 1984 to 1997



APPENDIX A

Analytical Results
Lakewood/Plaza Cleaners
July 23-24, 1997

Manchester Environmental Laboratory

7411 Beach Dr E, Port Orchard Washington 98366

CASE NARRATIVE

August 19, 1997

Subject: **Lakewood Plaza Cleaners**
Samples: 97308162 through 97308170
Project ID: 142597
Project Officer: P. Marti
By: Karin Feddersen *lf*

VOLATILE ORGANIC ANALYSIS

SUMMARY:

Sample 97308167 contained a high concentration of Tetrachloroethene. Use the result from dilution analysis of this sample for this analyte. Use the undiluted results for all other analytes.

The data is usable as reported.

ANALYTICAL METHODS:

Volatile organic compounds were analyzed using Manchester modification of the EPA Method 8260 purge-trap procedure with capillary GC/MS analysis. Typical QA/QC procedures were performed on the sample.

BLANKS:

Low levels of certain target compounds were detected in the laboratory blanks. These compounds are considered native to the sample if their concentration is at least five times greater than the amount detected in the associated blank.

SURROGATES:

Surrogate recoveries were within acceptable limits for the samples.

HOLDING TIMES:

The samples were analyzed within the recommended 14 day holding time.

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE:

Matrix spikes recoveries were within acceptable limits.

DATA QUALIFIER CODES:

- U - The analyte was not detected at or above the reported value.
- J - The analyte was positively identified. The associated numerical value is an estimate.
- UJ - The analyte was not detected at or above the reported estimated result.
- REJ - The data are unusable for all purposes.
- NAF - Not analyzed for.
- N - There is evidence the analyte is present in the sample.
- NJ - There is evidence that the analyte is present. The associated numerical result is an estimate.
- E - This qualifier is used when the concentration of the associated value exceeds the known calibration range.
- bold** - The analyte was present in the sample. (Visual Aid to locate detected compounds on report sheet.)

Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308162

Date Received: 07/25/97

Method: SW8260

Field ID: H2

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	5	U	Tetrachloroethene	8.8	
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	.61	J	1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	.25	J	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308162

Date Received: 07/25/97

Method: SW8260

Field ID: H2

Project Officer: P. Marti

Date Analyzed: 08/04/97

Matrix: Water

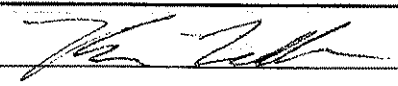
Units: ug/L

Analyte	Result	Qualifier
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Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	102	%
1,4-Difluorobenzene	100	%
Toluene-D8	97	%
p-Bromofluorobenzene	96	%
1,2-Dichlorobenzene-D4	102	%

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners		LIMS Project ID: 1425-97
Sample: 97308163	Date Received: 07/25/97	Method: SW8260
Field ID: MW-16A		Matrix: Water
Project Officer: P. Marti	Date Analyzed: 08/04/97	Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	5	U	Tetrachloroethene	47	
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	2.5		1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	.69	J	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: _____

Release Date: 9/11/92

Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308163

Date Received: 07/25/97

Method: SW8260

Field ID: MW-16A

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier
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Hexachloroethane	1	U
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1,2,4-Trichlorobenzene	2	U
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Naphthalene	2	U
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Hexachlorobutadiene	1	U
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1,2,3-Trichlorobenzene	2	U
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Surrogate Recoveries

1,2-Dichloroethane-D4	104	%
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1,4-Difluorobenzene	101	%
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Toluene-D8	102	%
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p-Bromofluorobenzene	94	%
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1,2-Dichlorobenzene-D4	105	%
------------------------	-----	---

Authorized By: 

Release Date: 7/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308164

Date Received: 07/25/97

Method: SW8260

Field ID: MW-16B

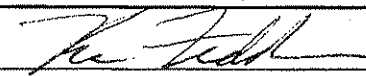
Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	J
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	5	U	Tetrachloroethene	44	
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	2.5		1,2,3-Trichloropropane	1	U
Bromochloromethane	.1	J	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	J
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	.65	J	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308164

Date Received: 07/25/97

Method: SW8260

Field ID: MW-16B

Project Officer: P. Marti

Date Analyzed: 08/04/97

Matrix: Water

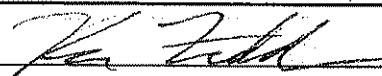
Units: ug/L

Analyte	Result	Qualifier
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Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	105	%
1,4-Difluorobenzene	101	%
Toluene-D8	101	%
p-Bromofluorobenzene	97	%
1,2-Dichlorobenzene-D4	105	%

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308165

Date Received: 07/25/97

Method: SW8260

Field ID: MS-27

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	5	U	Tetrachloroethene	1	U
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	2	U	1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	1	U	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308165

Date Received: 07/25/97

Method: SW8260

Field ID: MS-27

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

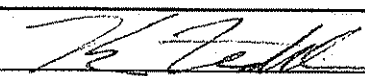
Units: ug/L

Analyte	Result	Qualifier
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Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	103	%
1,4-Difluorobenzene	98	%
Toluene-D8	100	%
p-Bromofluorobenzene	97	%
1,2-Dichlorobenzene-D4	105	%

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308166

Date Received: 07/25/97

Method: SW8260

Field ID: MW-20A

Date Analyzed: 08/04/97

Matrix: Water

Project Officer: P. Marti

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	5	U	Tetrachloroethene	.34	J
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	2	U	1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	1	U	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308166

Date Received: 07/25/97

Method: SW8260

Field ID: MW-20A

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier
---------	--------	-----------

Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	104	%
1,4-Difluorobenzene	102	%
Toluene-D8	99	%
p-Bromofluorobenzene	95	%
1,2-Dichlorobenzene-D4	105	%

Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308166 (Matrix Spike - LMX2) Date Received: 07/25/97

Method: SW8260

Field ID: MW-20A

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: % Recovery

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	123		1,1-Dichloropropanone	77	
Chloromethane	83		Cis-1,3-Dichloropropene	80	
Vinyl Chloride	78		4-Methyl-2-Pentanone	79	
Bromomethane	80		Trans-1,3-Dichloropropene	71	
Chloroethane	81		1,1,2-Trichloroethane	87	
Trichlorofluoromethane	85		Toluene	90	
Acetone	58		1,3-Dichloropropane	87	
Ethyl Ether	76		Ethylmethacrylate	78	
1,1-Dichloroethene	94		2-Hexanone	80	
Acrylonitrile	86		Dibromochloromethane	80	
Methyl Iodide	92		1,2-Dibromoethane (EDB)	86	
Methylene Chloride	114		Tetrachloroethene	86	
1,1,2 Trichlorotrifluoroethane	83		1,1,1,2-Tetrachloroethane	83	
Allyl Chloride	81		Chlorobenzene	100	
Carbon Disulfide	85		Ethylbenzene	107	
Trans-1,2-Dichloroethene	88		m & p-Xylene	109	
2-Methoxy-2-Methylpropane	88		Bromoform	76	
1,1-Dichloroethane	95		Styrene	97	
2-Butanone	79		1,1,2,2-Tetrachloroethane	85	
Methacrylonitrile	86		o-Xylene	109	
Cis-1,2-Dichloroethene	85		1,2,3-Trichloropropane	92	
Bromochloromethane	78		Trans-1,4-Dichloro-2-butene	79	
Chloroform	85		Isopropylbenzene (Cumene)	117	
Methyl acrylate	82		Bromobenzene	95	
2,2-Dichloropropane	68		n-Propylbenzene	111	
Tetrahydrofuran	62		2-Chlorotoluene	120	
1,2-Dichloroethane	86		4-Chlorotoluene	117	
1-Chlorobutane	85		1,2,4-Trimethylbenzene	109	
1,1,1-Trichloroethane	87		Pentachloroethane	82	
1,1-Dichloropropene	83		Tert-Butylbenzene	115	
Carbon Tetrachloride	83		1,3,5-Trimethylbenzene	118	
Benzene	83		Sec-Butylbenzene	105	
Dibromomethane	84		1,3-Dichlorobenzene	114	
1,2-Dichloropropane	86		1,4-Dichlorobenzene	107	
Trichloroethene	87		p-Isopropyltoluene	110	
2-Nitropropane	64		1,2-Dichlorobenzene	109	
Bromodichloromethane	85		n-Butylbenzene	100	
Methyl Methacrylate	76		1,2-Dibromo-3-Chloropropane	77	

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308166 (Matrix Spike - LMX2) Date Received: 07/25/97

Method: SW8260

Field ID: MW-20A

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: % Recovery

Analyte	Result	Qualifier
---------	--------	-----------

Hexachloroethane	77	
1,2,4-Trichlorobenzene	94	
Naphthalene	80	
Hexachlorobutadiene	89	
1,2,3-Trichlorobenzene	93	

Surrogate Recoveries

1,2-Dichloroethane-D4	102	%
1,4-Difluorobenzene	97	%
Toluene-D8	100	%
p-Bromofluorobenzene	101	%
1,2-Dichlorobenzene-D4	97	%

Authorized By: *[Signature]*

Release Date: 9/14/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308166 (Matrix Spike - LMX1) Date Received: 07/25/97

Method: SW8260

Field ID: MW-20A

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: % Recovery

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	127		1,1-Dichloropropanone	88	
Chloromethane	86		Cis-1,3-Dichloropropene	83	
Vinyl Chloride	81		4-Methyl-2-Pentanone	84	
Bromomethane	83		Trans-1,3-Dichloropropene	71	
Chloroethane	91		1,1,2-Trichloroethane	91	
Trichlorofluoromethane	86		Toluene	94	
Acetone	61		1,3-Dichloropropane	92	
Ethyl Ether	91		Ethylmethacrylate	79	
1,1-Dichloroethene	100		2-Hexanone	82	
Acrylonitrile	107		Dibromochloromethane	83	
Methyl Iodide	100		1,2-Dibromoethane (EDB)	88	
Methylene Chloride	113		Tetrachloroethene	90	
1,1,2 Trichlorotrifluoroethane	101		1,1,1,2-Tetrachloroethane	89	
Allyl Chloride	88		Chlorobenzene	106	
Carbon Disulfide	91		Ethylbenzene	117	
Trans-1,2-Dichloroethene	95		m & p-Xylene	115	
2-Methoxy-2-Methylpropane	89		Bromoform	83	
1,1-Dichloroethane	100		Styrene	99	
2-Butanone	82		1,1,2,2-Tetrachloroethane	90	
Methacrylonitrile	92		o-Xylene	118	
Cis-1,2-Dichloroethene	85		1,2,3-Trichloropropane	96	
Bromochloromethane	84		Trans-1,4-Dichloro-2-butene	78	
Chloroform	90		Isopropylbenzene (Cumene)	121	
Methyl acrylate	84		Bromobenzene	102	
2,2-Dichloropropane	74		n-Propylbenzene	115	
Tetrahydrofuran	64		2-Chlorotoluene	120	
1,2-Dichloroethane	93		4-Chlorotoluene	127	
1-Chlorobutane	89		1,2,4-Trimethylbenzene	113	
1,1,1-Trichloroethane	93		Pentachloroethane	85	
1,1-Dichloropropene	87		Tert-Butylbenzene	114	
Carbon Tetrachloride	90		1,3,5-Trimethylbenzene	122	
Benzene	88		Sec-Butylbenzene	107	
Dibromomethane	87		1,3-Dichlorobenzene	116	
1,2-Dichloropropane	92		1,4-Dichlorobenzene	119	
Trichloroethene	91		p-Isopropyltoluene	114	
2-Nitropropane	73		1,2-Dichlorobenzene	113	
Bromodichloromethane	89		n-Butylbenzene	103	
Methyl Methacrylate	83		1,2-Dibromo-3-Chloropropane	85	

Authorized By: 

Release Date: 8/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308166 (Matrix Spike - LMX1) Date Received: 07/25/97

Method: SW8260

Field ID: MW-20A

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

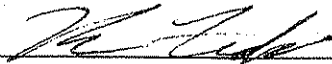
Units: % Recovery

Analyte	Result	Qualifier
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Hexachloroethane	84	
1,2,4-Trichlorobenzene	97	
Naphthalene	81	
Hexachlorobutadiene	94	
1,2,3-Trichlorobenzene	97	

Surrogate Recoveries

1,2-Dichloroethane-D4	106	%
1,4-Difluorobenzene	100	%
Toluene-D8	102	%
p-Bromofluorobenzene	104	%
1,2-Dichlorobenzene-D4	99	%

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308167

Date Received: 07/25/97

Method: SW8260

Field ID: MW-20B


Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	5	U	Tetrachloroethene	328	E
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	6.4		1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	4		p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308167

Date Received: 07/25/97

Method: SW8260

Field ID: MW-20B

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

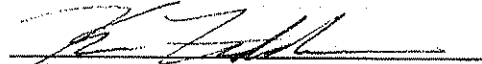
Units: ug/L

Analyte	Result	Qualifier
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Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	101	%
1,4-Difluorobenzene	99	%
Toluene-D8	100	%
p-Bromofluorobenzene	95	%
1,2-Dichlorobenzene-D4	104	%

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308167 (Dilution - DIL1)

Date Received: 07/25/97

Method: SW8260

Field ID: MW-20B

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

5 KF

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	100	U	1,1-Dichloropropanone	250	U
Chloromethane	50	U	Cis-1,3-Dichloropropene	53	U
Vinyl Chloride	50	U	4-Methyl-2-Pentanone	200	U
Bromomethane	50	U	Trans-1,3-Dichloropropene	47	U
Chloroethane	50	U	1,1,2-Trichloroethane	50	U
Trichlorofluoromethane	250	U	Toluene	50	U
Acetone	250	U	1,3-Dichloropropane	50	U
Ethyl Ether	50	U	Ethylmethacrylate	50	U
1,1-Dichloroethene	50	U	2-Hexanone	100	U
Acrylonitrile	250	U	Dibromochloromethane	50	U
Methyl Iodide	50	U	1,2-Dibromoethane (EDB)	50	U
Methylene Chloride	250	U	Tetrachloroethene	222	
1,1,2 Trichlorotrifluoroethane	50	U	1,1,1,2-Tetrachloroethane	50	U
Allyl Chloride	50	U	Chlorobenzene	50	U
Carbon Disulfide	100	U	Ethylbenzene	50	U
Trans-1,2-Dichloroethene	50	U	m & p-Xylene	100	U
2-Methoxy-2-Methylpropane	50	U	Bromoform	50	U
1,1-Dichloroethane	50	U	Styrene	50	U
2-Butanone	100	U	1,1,2,2-Tetrachloroethane	50	U
Methacrylonitrile	100	U	o-Xylene	50	U
Cis-1,2-Dichloroethene	100	U	1,2,3-Trichloropropane	50	U
Bromochloromethane	50	U	Trans-1,4-Dichloro-2-butene	50	U
Chloroform	100	U	Isopropylbenzene (Cumene)	50	U
Methyl acrylate	50	U	Bromobenzene	50	U
2,2-Dichloropropane	100	U	n-Propylbenzene	50	U
Tetrahydrofuran	250	U	2-Chlorotoluene	50	U
1,2-Dichloroethane	50	U	4-Chlorotoluene	50	U
1-Chlorobutane	50	U	1,2,4-Trimethylbenzene	100	U
1,1,1-Trichloroethane	50	U	Pentachloroethane	250	U
1,1-Dichloropropene	50	U	Tert-Butylbenzene	100	U
Carbon Tetrachloride	50	U	1,3,5-Trimethylbenzene	50	U
Benzene	50	U	Sec-Butylbenzene	50	U
Dibromomethane	50	U	1,3-Dichlorobenzene	50	U
1,2-Dichloropropane	50	U	1,4-Dichlorobenzene	50	U
Trichloroethene	50	U	p-Isopropyltoluene	50	U
2-Nitropropane	100	U	1,2-Dichlorobenzene	50	U
Bromodichloromethane	50	U	n-Butylbenzene	100	U
Methyl Methacrylate	50	U	1,2-Dibromo-3-Chloropropane	50	U

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308167 (Dilution - DIL1)

Date Received: 07/25/97

Method: SW8260

Field ID: MW-20B

Date Analyzed: 08/04/97

Matrix: Water

Project Officer: P. Marti

Units: ug/L

5 KF

Analyte	Result	Qualifier
---------	--------	-----------

Hexachloroethane	50	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	100	U
Hexachlorobutadiene	50	U
1,2,3-Trichlorobenzene	100	U

Surrogate Recoveries

1,2-Dichloroethane-D4	102	%
1,4-Difluorobenzene	100	%
Toluene-D8	101	%
p-Bromofluorobenzene	96	%
1,2-Dichlorobenzene-D4	103	%

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308168

Date Received: 07/25/97

Method: SW8260

Field ID: MW-31

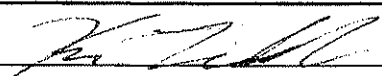
Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	5	U	Tetrachloroethene	.89	J
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	.92	J	1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	1	U	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308168

Date Received: 07/25/97

Method: SW8260

Field ID: MW-31

Project Officer: P. Marti

Date Analyzed: 08/04/97

Matrix: Water

Units: ug/L

Analyte	Result	Qualifier
---------	--------	-----------

Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	100	%
1,4-Difluorobenzene	100	%
Toluene-D8	102	%
p-Bromofluorobenzene	95	%
1,2-Dichlorobenzene-D4	104	%

Authorized By: 

Release Date: 9/11/97

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Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308169

Date Received: 07/25/97

Method: SW8260

Field ID: MW-33

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	5	U	Tetrachloroethene	1	U
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	2	U	1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	1	U	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/14/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308169

Date Received: 07/25/97

Method: SW8260

Field ID: MW-33

Date Analyzed: 08/04/97

Matrix: Water

Project Officer: P. Marti

Units: ug/L

Analyte	Result	Qualifier
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Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	101	%
1,4-Difluorobenzene	100	%
Toluene-D8	99	%
p-Bromofluorobenzene	96	%
1,2-Dichlorobenzene-D4	103	%

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308170

Date Received: 07/25/97

Method: SW8260

Field ID: MW-19A

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	.11	J
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	5	U	Tetrachloroethene	1	U
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	2	U	1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	.34	J	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/11/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: 97308170

Date Received: 07/25/97

Method: SW8260

Field ID: MW-19A

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

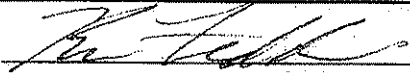
Units: ug/L

Analyte	Result	Qualifier
---------	--------	-----------

Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	100	%
1,4-Difluorobenzene	99	%
Toluene-D8	98	%
p-Bromofluorobenzene	95	%
1,2-Dichlorobenzene-D4	104	%

Authorized By: 

Release Date: 9/14/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: BLN72002

Method: SW8260

Blank ID: ODBW7216

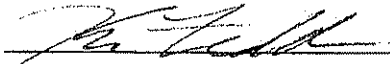
Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	2.2	J	Tetrachloroethene	1	U
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	2	U	1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	1	U	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/14/92

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: BLN72002

Method: SW8260

Blank ID: ODBW7216

Matrix: Water

Project Officer: P. Marti

Date Analyzed: 08/04/97

Units: ug/L

Analyte	Result	Qualifier
---------	--------	-----------

Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	101	%
1,4-Difluorobenzene	99	%
Toluene-D8	101	%
p-Bromofluorobenzene	97	%
1,2-Dichlorobenzene-D4	103	%

Authorized By: 

Release Date: 9/11/97

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Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: BLN72243

Method: SW8260

Blank ID: ODBW7217

Matrix: Water

Project Officer: P. Martí

Date Analyzed: 08/05/97

Units: ug/L

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	2	U	1,1-Dichloropropanone	5	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	1	U	4-Methyl-2-Pentanone	4	U
Bromomethane	1	U	Trans-1,3-Dichloropropene	.94	U
Chloroethane	1	U	1,1,2-Trichloroethane	1	U
Trichlorofluoromethane	5	U	Toluene	1	U
Acetone	5	U	1,3-Dichloropropane	1	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1-Dichloroethene	1	U	2-Hexanone	2	U
Acrylonitrile	5	U	Dibromochloromethane	1	U
Methyl Iodide	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	2.2	J	Tetrachloroethene	1	U
1,1,2 Trichlorotrifluoroethane	1	U	1,1,1,2-Tetrachloroethane	1	U
Allyl Chloride	1	U	Chlorobenzene	1	U
Carbon Disulfide	2	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
2-Methoxy-2-Methylpropane	1	U	Bromoform	1	U
1,1-Dichloroethane	1	U	Styrene	1	U
2-Butanone	2	U	1,1,2,2-Tetrachloroethane	1	J
Methacrylonitrile	2	U	o-Xylene	1	U
Cis-1,2-Dichloroethene	2	U	1,2,3-Trichloropropane	1	U
Bromochloromethane	1	U	Trans-1,4-Dichloro-2-butene	1	U
Chloroform	2	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	Bromobenzene	1	U
2,2-Dichloropropane	2	U	n-Propylbenzene	1	U
Tetrahydrofuran	5	U	2-Chlorotoluene	1	U
1,2-Dichloroethane	1	U	4-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,2,4-Trimethylbenzene	2	U
1,1,1-Trichloroethane	1	U	Pentachloroethane	5	U
1,1-Dichloropropene	1	U	Tert-Butylbenzene	2	U
Carbon Tetrachloride	1	U	1,3,5-Trimethylbenzene	1	U
Benzene	1	U	Sec-Butylbenzene	1	U
Dibromomethane	1	U	1,3-Dichlorobenzene	1	U
1,2-Dichloropropane	1	U	1,4-Dichlorobenzene	1	U
Trichloroethene	1	U	p-Isopropyltoluene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	2	U
Methyl Methacrylate	1	U	1,2-Dibromo-3-Chloropropane	1	U

Authorized By: 

Release Date: 9/5/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: Plaza Cleaners

LIMS Project ID: 1425-97

Sample: BLN72243

Method: SW8260

Blank ID: ODBW7217

Matrix: Water

Project Officer: P. Marti

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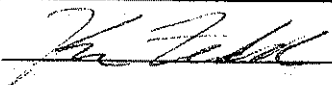
Units: ug/L

Analyte	Result	Qualifier
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Hexachloroethane	1	U
1,2,4-Trichlorobenzene	2	U
Naphthalene	2	U
Hexachlorobutadiene	1	U
1,2,3-Trichlorobenzene	2	U

Surrogate Recoveries

1,2-Dichloroethane-D4	105	%
1,4-Difluorobenzene	100	%
Toluene-D8	104	%
p-Bromofluorobenzene	96	%
1,2-Dichlorobenzene-D4	104	%

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