

LAKWOOD/PLAZA CLEANERS ROUND VII, DECEMBER 1-2, 1993

Introduction

This document is one of a series describing the results of ground water sampling at Lakewood/Plaza Cleaners. The sampling program was designed by U.S. Environmental Protection Agency's contractor, CH2M Hill, as part of the Lakewood Remedial Action (CH2M Hill, 1990a&b). Ecology has conducted the 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 wells H1 and H2 (Figure 1) to contain and remove contaminated ground water caused by Plaza Cleaners. Samples were collected on December 1-2, 1993, from ten monitoring wells: MW-16A, MW-19A, MW-20A, MW-20B, MW-21, MW-27, MW-31, MW-32, MW-40, and MW-41 (Figure 1). All samples were analyzed for volatile organics (VOA's). Sample procedures, quality assurance review and laboratory reporting sheets are presented in Appendix A.

Results

Field Observations

Table 1 lists field observation data; static water level, pH, specific conductance, temperature, and purged volume, as well as well depth and geologic unit for each of the sampled wells. Well MW-20A had a pH reading of 8.7 standard units, which is consistent with previous measurements. The high pH readings in MW-20A are most likely related to well construction. Well MW-20B had a higher specific conductance reading (570 umhos/cm) than other wells. Well MW-20B is screened in a fine-grained till unit. A high specific conductance is expected for samples from this well.

Laboratory Results

Table 2 summarizes laboratory results. The highest concentrations of tetrachloroethylene (PERC) and cis-1,2-dichloroethylene (cis-1,2-DCE) occurred at well MW-20B at 187 ppb and 8.2 ppb, respectively. PERC and cis-1,2-DCE were detected in wells MW-16A, MW-20A, MW-21, MW-31, and MW-32 at concentrations at or near the quantitation limit. Carbon tetrachloride and 1,1,1-trichloroethane were detected in well MW-41 at concentrations below the quantitation limit. Trichloroethylene and carbon tetrachloride were detected in the upgradient well MW-19A below the quantitation limit.

Table 3 shows PERC, TCE, and cis-1,2-DCE concentrations for January 1991 through December 1993. PERC and cis-1,2-DCE continue to be detected at or near the detection

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limit in most of the wells screened in the Advance Outwash. Well MW-20B, which is screened in the Vashon Till, continues to have the highest concentrations of the wells sampled. Figures 2 and 3 show PERC concentrations at wells MW-20B and MW-16A between 1984 and 1993, respectively. 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). After May 1985 concentrations ranged between 120 ppb to 1200 ppb. Over the monitoring period PERC concentrations in MW-16A varied between 3 ppb and 110 ppb.

Methods

Ground Water Sampling

Samples were collected on December 1-2, 1993, from MW-16A, MW-19A, MW-20A, MW-20B, MW-21, MW-27, MW-31, MW-32, MW-40, and MW-41. Prior to sample collection, static water level measurements were obtained using an electronic water level indicator. The meter 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 monitoring well. All wells but one (MW-20B) were purged and sampled using dedicated bladder pumps. Well MW-20B was purged and sampled with a decontaminated teflon bailer.

Wells were sampled from the least to most contaminated. Samples collected for volatile organics were free of headspace and preserved with two drops of 1:1 hydrochloric acid. Volatile organic samples were analyzed using EPA SW-846 Method 8260 (EPA, 1986).

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).

Data were managed using the ENVIS database software package.

Quality Assurance Samples

In general the quality of the data is acceptable for use, except as qualified.

Quality control samples collected in the field for the ground water monitoring consisted of a transfer blank, a blind duplicate, and a replicate sample. A transfer blank was collected by pouring organic-free water through a decontaminated bailer. 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. A replicate sample was collected from well MW-20A. Replicate samples are two sets of samples collected from a well at different times. In addition to quality control samples collected in the field, laboratory quality assurance samples consisted of matrix spikes, matrix spike duplicates and surrogate compound recoveries.

Volatile organic analyses were performed by Manchester Laboratory. Dickey Huntamer of the Manchester Laboratory conducted the quality assurance review. Low levels of common laboratory solvents such as acetone and methylene chloride were detected in the laboratory blanks. Most of these chemicals were not detected in any of the samples, therefore they are considered to be the result of laboratory contamination.

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 tetrachloroethylene, trichloroethylene and cis-1,2-dichloroethylene were 15%, 13%, and 12%, respectively. Matrix spike and spike duplicate recoveries for volatile organics are within the QC limits of $\pm 25\%$ for water sample analysis.

References

CH2M HILL, 1990a. Sampling and Analysis Plan Remedial Action - Lakewood RA.

CH2M HILL, 1990b. Technical Memorandum from Lisa Dally Wilson to Ann Williamson,
RE: Groundwater Sampling at Lakewood (April 1990). Project No. SEA69018RA.FQ.

Washington State Department of Ecology, 1994. Manchester Environmental Laboratory - Laboratory Users Manual. Edited by D. Huntamer and J. Hyre.

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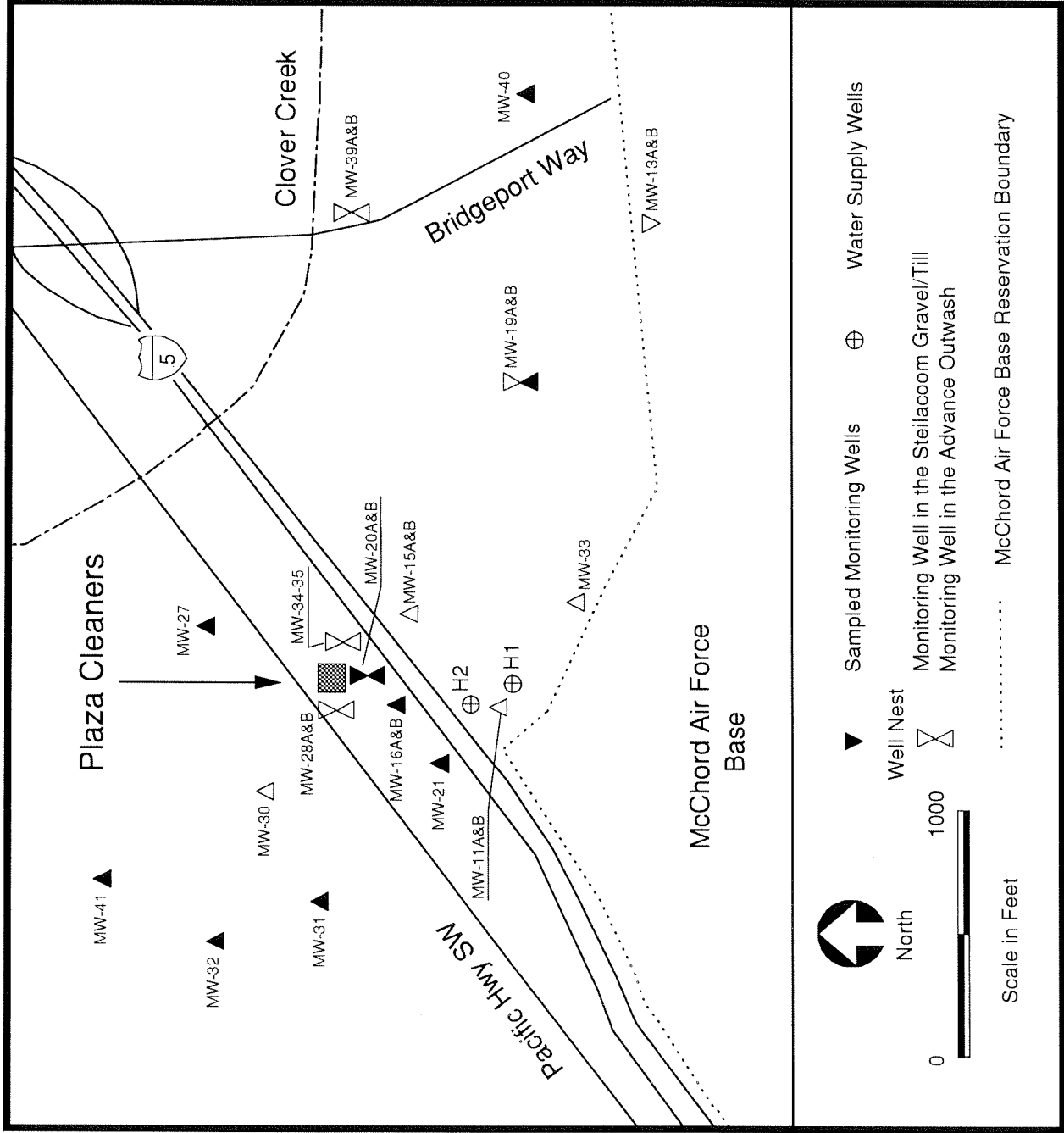


Figure 1: Well Location Map - Lakewood/Plaza Cleaners

Figure 2: PERC Concentrations for Well MW-20B from 1984 to 1993

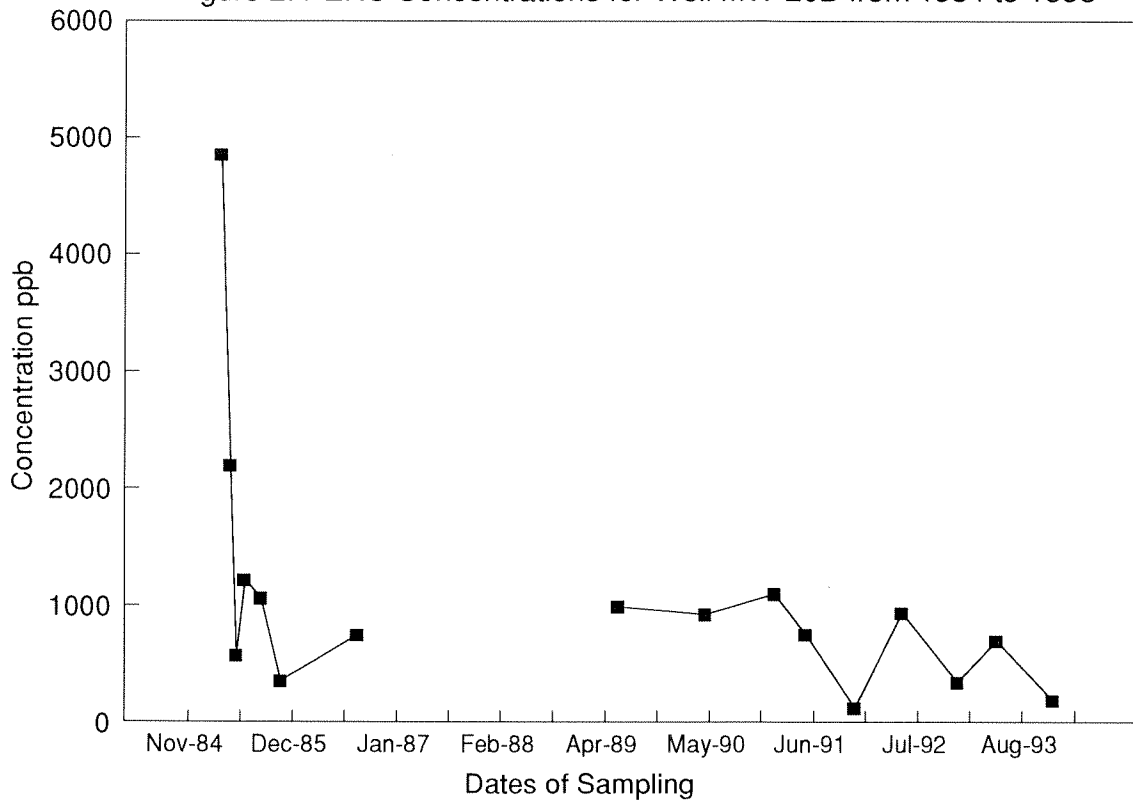


Figure 3: PERC Concentrations for Well MW-16A from 1984 to 1993

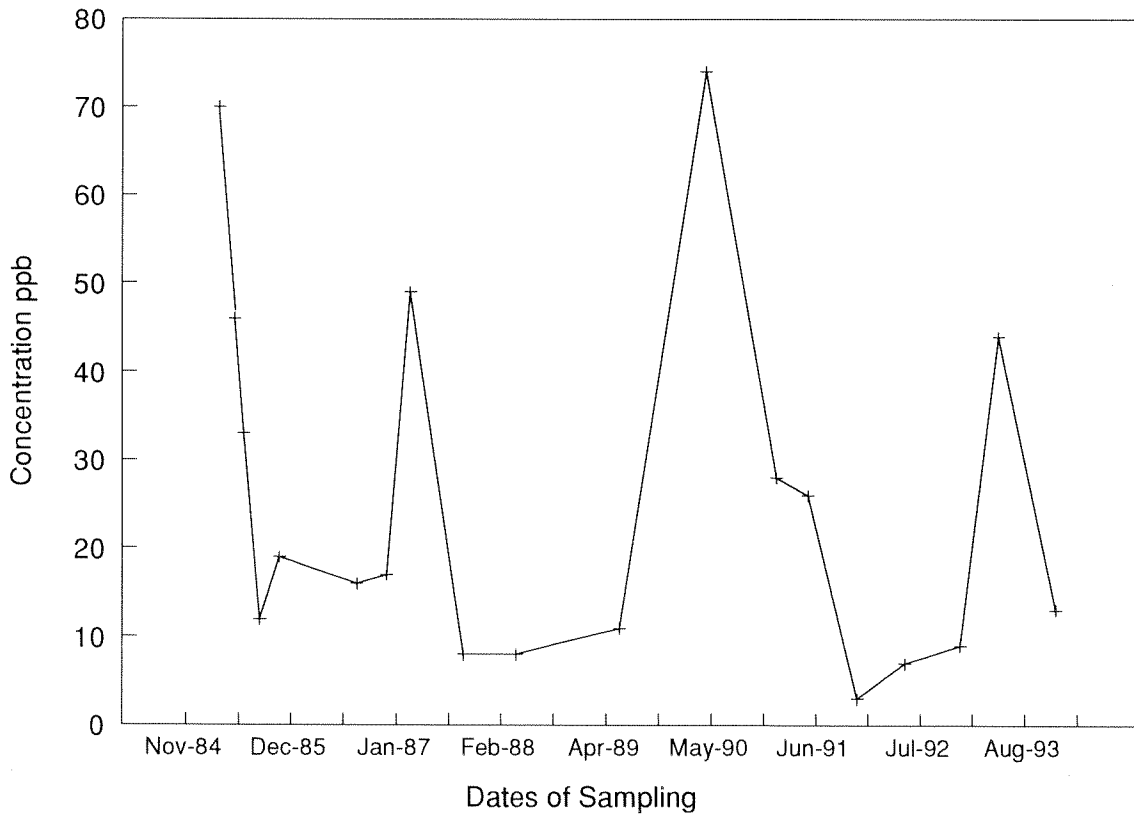


Table 1: Field Parameter Results for December 1-2, 1993

Monitoring Well	Total Depth From Top of PVC Casing As Measured	Geologic Unit Screened	Depth to Water	pH (st. units)	Specific Conductance (umhos/cm)	Temperature (°C)	Purge Volume (gallons)
MW-40	75.1	Advance Outwash	37.83	7.0	295	10.9	19
MW-19A	97.5	Advance Outwash	43.0	7.1	195	11.3	27
MW-41	96.8	Advance Outwash	32.9	7.3	203	11.5	30
MW-27	96.4	Advance Outwash	++	6.9	195	12.2	21
MW-20A	97.3	Advance Outwash	37.82	8.7	190	12.3	30
MW-32	114.4	Advance Outwash	65.02	7.2	172	11.2	25
MW-31	91.5	Advance Outwash	++	6.8	167	11.2	30
MW-21	92.1	Advance Outwash	43.99	7.1	175	11.2	24
MW-16A	109	Advance Outwash	45.53	7.4	195	12.3	125
MW-20B	50.4	Vashon Till	41.38	6.8	570	13.3	5

++ = Dedicated pump obstructs water-level measurement.

Table 2: Summary of Analytes Detected in Samples Collected During December 1-2, 1993

Geologic Unit Screened	Vashon Till	Advance Outwash											
		MW-20B	MW-16A	MW-16B (Duplicate)	MW-20A	MW-20A** (Replicate)	MW-21	MW-27	MW-31	MW-32	MW-41	Upgradient Wells	
												MW-19A	MW-40
<u>Volatile Organics: (ug/L)</u>													
Tetrachloroethylene (PERC)	187	13.9	12.0	0.37 J	0.27 J	1.6	1 U	0.75 J	0.67 J	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	50 U	0.34 J	0.3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42	1 U
cis-1,2-Dichloroethylene (cis-1,2-DCE)	8.2 J	0.79 J	0.7 J	1 U	1 U	0.4 J	1 U	1.2	0.62 J	1 U	1 U	1 U	1 U
Carbon Tetrachloride	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.09 J	0.16 J	1 U
1,1,1-Trichloroethane	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.16 J	1 U	1 U	1 U

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.

Table 3: Summary of Sampling Results from January 1991 to December 1993

Well Number	January 1991			May 1991			November 1991			May 1992			December 1992			May 1993			December 1993		
	PERC	TCE	1,2-DCE	PERC	TCE	1,2-DCE	PERC	TCE	1,2-DCE	PERC	TCE	1,2-DCE	PERC	TCE	1,2-DCE	PERC	TCE	1,2-DCE	PERC	TCE	1,2-DCE
MW-16A	28	1 J	24 J	26	0.6 J	2	2.7 J	1 U	0.6 J	7	1 U	1	9 J	0.3 J	0.8 J	44	10 U	2 J	13	0.3 J	0.7 J
MW-20A	1 U	1 U	1 U	0.4 J	1 U	1 U	0.4 J	1 U	1 U	0.5 J	1 U	1 U	0.8 J	1 UJ	1 UJ	10 U	10 U	10 U	0.3 J	1 U	1 U
MW-20B	1100 D	18	32	752	16	30	120	2.6 J	6.7	940	13	32	340 J	14 J	20 J	790 D	12	21	187	50 U	8.2 J
MW-21	21 J	1 U	1 J	2	1 U	0.7 J	2.2 J	1 U	1.0 J	2	1 U	0.6 J	2	0.2 J	0.3 J	1 J	10 U	10 U	1.6	1 U	0.4 J
MW-27	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 UJ	1 UJ	10 U	10 U	10 U	1 U	1 U	1 U
MW-31	1 J	1 U	1.9 J	0.6 J	1 U	2	0.9 J	1 U	2.2 J	0.8 J	1 U	1	0.5 J	1 UJ	0.9 J	10 U	10 U	10 U	0.8 J	1 U	1.2 J
MW-32	1 J	1 U	1.1 J	1	1 U	2	0.6 J	1 U	0.6 J	0.7 J	1 U	1	0.7 J	1 UJ	0.5 J	10 U	10 U	10 U	0.7 J	1 U	0.62 J
MW-41	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 UJ	1 UJ	10 U	10 U	10 U	1 U	1 U	1 U
MW-19A	---	---	---	---	---	---	1 U	0.5 J	1 U	---	---	---	1 U	1 UJ	1 UJ	---	---	---	1 U	0.42	1 U
MW-40	1 U	1 U	1 U	---	---	---	1 U	1 U	1 U	---	---	---	1 U	1 UJ	1 UJ	---	---	---	1 U	1 U	1 U

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.
 --- = Not Tested

APPENDIX A

Analytical Results
Lakewood/Plaza Cleaners
December 1-2, 1993

MANCHESTER ENVIRONMENTAL LABORATORY

7411 Beach Drive E , Port Orchard Washington 98366

CASE NARRATIVE


December 20, 1993

Subject: Lakewood / Plaza Cleaners

Samples: 93 - 498155 to -498167

Case No. DOE-729X

Officer: Pam Marti

By: Dickey D. Huntamer 
Organics Analysis Unit

VOLATILE ORGANIC ANALYSIS

ANALYTICAL METHODS:

Volatile organic compounds were analyzed using Manchester modification of the EPA SW 846 Method 8260 purge-trap procedure with capillary GC/MS analysis. Normal QA/QC procedures were performed on the samples.

BLANKS:

Low levels of the common laboratory solvents acetone and methylene chloride were detected in the laboratory blanks. The EPA five times rule was applied to all target compounds which were found in the blank. Compounds that were found in the sample and in the blank were considered real and not the result of contamination if the levels in the sample are greater than or equal to five times the amount of compounds in the associated method blank.

SURROGATES:

Surrogate recoveries were within acceptable limits for water samples.

HOLDING TIMES:

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

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE:

Water matrix spikes were within acceptable QC limits for both percent recovery and RPD.

ANALYTICAL COMMENTS:

No analytical problems were encountered in the analysis. The data is acceptable for use as qualified.

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.
- EXP - The result is equal to the number before EXP times 10 to the power of the number after EXP. As an example 3EXP6 equals 3×10^6 .
- NAF - Not analyzed for.
- N - For organic analytes there is evidence the analyte is present in this 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.
- * - The analyte was present in the sample. (Visual Aid to locate detected compound on report sheet.)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498155 Description: MW-40 Source: Well (Test/Observation)

Begin Date: 93/12/01

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan	Water-Total Result Units
Carbon Tetrachloride	1.00 ug/l	1,3,5-Trimethylbenzene	1.00 ug/l
Acetone	5.00 ug/l	Bromobenzene	1.00 ug/l
Chloroform	1.00 ug/l	Toluene	1.00 ug/l
Benzene	1.00 ug/l	Chlorobenzene	1.00 ug/l
1,1,1-Trichloroethane	1.00 ug/l	1,2,4-Trichlorobenzene	1.00 ug/l
Bromomethane	1.00 ug/l	Dibromochloromethane	1.00 ug/l
Chloromethane	1.00 ug/l	Tetrachloroethene	1.00 ug/l
Dibromomethane	1.00 ug/l	Sec-Butylbenzene	1.00 ug/l
Bromochloromethane	1.00 ug/l	1,3-Dichloropropane	1.00 ug/l
Chloroethane	1.00 ug/l	Cis-1,2-Dichloroethene	1.00 ug/l
Vinyl Chloride	2.00 ug/l	trans-1,2-Dichloroethene	1.00 ug/l
Methylene Chloride	2.00 ug/l	1,3-Dichlorobenzene	1.00 ug/l
Carbon Disulfide	1.00 ug/l	1,1-Dichloropropene	1.00 ug/l
Bromoform	1.00 ug/l	2-Hexanone	40.00UJ ug/l
Bromodichloromethane	1.00 ug/l	2,2-Dichloropropane	1.00 ug/l
1,1-Dichloroethane	1.00 ug/l	Ethane, 1,1,1,2-Tetrachloro	1.00 ug/l
1,1-Dichloroethene	1.00 ug/l	Total Xylenes	1.00 ug/l
Trichlorofluoromethane	1.00 ug/l	m,p-XYLENE	1.00 ug/l
Methane, Dichlorodifluoro	1.00 ug/l	cis-1,3-Dichloropropene	1.00 ug/l
1,2-Dichloropropane	20.00 ug/l	trans-1,3-Dichloropropene	1.00 ug/l
2-Butanone	1.00 ug/l	p-BROMOFLUOROBENZENE	94 \$ Recov
1,1,2-Trichloroethane	1.00 ug/l	FLUOROBENZENE	100 \$ Recov
Ethene, trichloro	1.00 ug/l	TOLUENE-D8	100 \$ Recov
ETHANE, 1,1,2,2-TETRACHLORO	1.00 ug/l	1,2-DICHLOROBENZENE-D4	98 \$ Recov
1,2,3-Trichlorobenzene	1.00 ug/l	d4-1,2-Dichloroethane	104 \$ Recov
Hexachlorobutadiene	1.00 ug/l		
Naphthalene	1.00 ug/l		
o-XYLENE	1.00 ug/l		
2-Chlorotoluene	1.00 ug/l		
1,2-Dichlorobenzene	1.00 ug/l		
1,2,4-Trimethylbenzene	1.00 ug/l		
1,2-Dibromo-3-Chloropropane	1.00 ug/l		
1,2,3-Trichloropropane	1.00 ug/l		
Tert-Butylbenzene	1.00 ug/l		
Isopropylbenzene (Cume)	1.00 ug/l		
p-Isopropyltoluene	1.00 ug/l		
Ethylbenzene	1.00 ug/l		
BENZENE, ETHENYL-(STYRENE)	1.00 ug/l		
BENZENE, PROPYL-	1.00 ug/l		
Butylbenzene	1.00 ug/l		
4-Chlorotoluene	1.00 ug/l		
1,4-Dichlorobenzene	1.00 ug/l		
1,2-Dibromoethane (EDB)	1.00 ug/l		
1,2-Dichloroethane	1.00 ug/l		
4-Methyl-2-Pentanone (MIBK)	5.00 ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM

Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498156

Description: MW-19

Source: Well (Test/Observation)

Begin Date: 93/12/01

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan *** Continued ***	Water-Total Result Units
Carbon Tetrachloride	0.16J* ug/l		
Acetone	5.0U ug/l	1,3,5-Trimethylbenzene	1.0U ug/l
Chloroform	1.0U ug/l	Bromobenzene	1.0U ug/l
Benzene	1.0U ug/l	Toluene	1.0U ug/l
1,1,1-Trichloroethane	1.0U ug/l	Chlorobenzene	1.0U ug/l
Bromomethane	1.0U ug/l	1,2,4-Trichlorobenzene	1.0U ug/l
Chloromethane	1.0U ug/l	Dibromochloromethane	1.0U ug/l
Dibromomethane	1.0U ug/l	Tetrachloroethene	1.0U ug/l
Bromochloromethane	1.0U ug/l	Sec-Butylbenzene	1.0U ug/l
Chloroethane	1.0U ug/l	1,3-Dichloropropane	1.0U ug/l
Vinyl Chloride	1.0U ug/l	Cis-1,2-Dichloroethene	1.0U ug/l
Methylene Chloride	2.0U ug/l	trans-1,2-Dichloroethene	1.0U ug/l
Carbon Disulfide	1.0U ug/l	1,3-Dichlorobenzene	1.0U ug/l
Bromoform	1.0U ug/l	1,1-Dichloropropane	1.0U ug/l
Bromodichloromethane	1.0U ug/l	2-Hexanone	40.0UJ ug/l
1,1-Dichloroethane	1.0U ug/l	2,2-Dichloropropane	1.0U ug/l
1,1-Dichloroethene	1.0U ug/l	Ethane, 1,1,1,2-Tetrachloro	1.0U ug/l
Trichlorofluoromethane	1.0U ug/l	Total Xylenes	1.0U ug/l
Methane, Dichlorodifluoride	1.0UJ ug/l	m p-XYLENE	1.0U ug/l
1,2-Dichloropropane	1.0U ug/l	cis-1,3-Dichloropropene	1.0U ug/l
2-Butanone	20.0U ug/l	trans-1,3-Dichloropropene	1.0U ug/l
1,1,2-Trichloroethane	1.0U ug/l	p-BROMOFLUOROBENZENE	96
Ethene, trichloro-	0.42J* ug/l	FLUOROBENZENE	101
ETHANE, 1,1,2,2-TETRACHLORO	1.0U ug/l	TOLUENE-D8	101
1,2,3-Trichlorobenzene	1.0U ug/l	1,2-DICHLOROBENZENE-D4	103
Hexachlorobutadiene	1.0U ug/l	d4-1,2-Dichloroethane	115
Naphthalene	1.0U ug/l		
o-XYLENE	1.0U ug/l		
2-Chlorotoluene	1.0U ug/l		
1,2-Dichlorobenzene	1.0U ug/l		
1,2,4-Trimethylbenzene	1.0U ug/l		
1,2-Dibromo-3-chloropropane	1.0U ug/l		
1,2,3-Trichloropropane	1.0U ug/l		
tert-Butylbenzene	1.0U ug/l		
Isopropylbenzene (Cume)	1.0U ug/l		
p-Isopropyltoluene	1.0U ug/l		
Ethylbenzene	1.0U ug/l		
BENZENE, ETHENYL-(STYR)	1.0U ug/l		
BENZENE, PROPYL-	1.0U ug/l		
Butylbenzene	1.0U ug/l		
4-Chlorotoluene	1.0U ug/l		
1,4-Dichlorobenzene	1.0U ug/l		
1,2-Dibromoethane (EDB)	1.0U ug/l		
1,2-Dichloroethane	1.0U ug/l		
4-Methyl-2-Pentanone (M)	5.0U ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498157 Description: MW-41

Source: Well (Test/Observation)

Begin Date: 93/12/01

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan	Water-Total Result Units
Carbon Tetrachloride	0.091J* ug/l	1,3,5-Trimethylbenzene	1.00 ug/l
Acetone	5.00 ug/l	Bromobenzene	1.00 ug/l
Chloroform	1.00 ug/l	Toluene	1.00 ug/l
Benzene	1.00 ug/l	Chlorobenzene	1.00 ug/l
1,1,1-Trichloroethane	0.16J* ug/l	1,2,4-Trichlorobenzene	1.00 ug/l
Bromomethane	1.00 ug/l	Dibromochloromethane	1.00 ug/l
Chloromethane	1.00 ug/l	Tetrachloroethene	1.00 ug/l
Bromochloromethane	1.00 ug/l	Sec-Butylbenzene	1.00 ug/l
Chloroethane	1.00 ug/l	1,3-Dichloropropane	1.00 ug/l
Methyl Chloride	1.00 ug/l	Cis-1,2-Dichloroethene	1.00 ug/l
Methylene Chloride	2.00 ug/l	trans-1,2-Dichloroethene	1.00 ug/l
Carbon Disulfide	1.00 ug/l	1,3-Dichlorobenzene	1.00 ug/l
Bromoform	1.00 ug/l	1,1-Dichloropropene	1.00 ug/l
Bromodichloromethane	1.00 ug/l	2-Hexanone	40.00J ug/l
1,1-Dichloroethane	1.00 ug/l	2,2-Dichloropropane	1.00 ug/l
1,1-Dichloroethene	1.00 ug/l	Ethane, 1,1,1,2-Tetrac	1.00 ug/l
Trichlorofluoromethane	1.00 ug/l	Total Xylenes	1.00 ug/l
Methane, Dichlorodiflu	1.00J ug/l	m p-XYLENE	1.00 ug/l
1,2-Dichloropropane	1.00 ug/l	cis-1,3-Dichloropropene	1.00 ug/l
2-Butanone	20.00 ug/l	trans-1,3-Dichloroprop+	1.00 ug/l
1,1,2-Trichloroethane	1.00 ug/l	p-BROMOFLUOROBENZENE	97 † Recov
Ethene, trichloro-	1.00 ug/l	FLUOROBENZENE	102 † Recov
ETHANE, 1,1,2,2-TETRAC	1.00 ug/l	TOLUENE-D8	99 † Recov
1,2,3-Trichlorobenzene	1.00 ug/l	1,2-DICHLOROBENZENE-D4	102 † Recov
Hexachlorobutadiene	1.00 ug/l	d4-1,2-Dichloroethane	116 † Recov
Naphthalene	1.00 ug/l		
O-XYLENE	1.00 ug/l		
2-Chlorotoluene	1.00 ug/l		
1,2-Dichlorobenzene	1.00 ug/l		
1,2,4-Trimethylbenzene	1.00 ug/l		
1,2-Dibromo-3-chloropr+	1.00 ug/l		
1,2,3-Trichloropropane	1.00 ug/l		
Tert-Butylbenzene	1.00 ug/l		
Isopropylbenzene (Cume+	1.00 ug/l		
p-isopropyltoluene	1.00 ug/l		
Ethylbenzene	1.00 ug/l		
BENZENE, ETHENYL-(STYR+	1.00 ug/l		
BENZENE, PROPYL-	1.00 ug/l		
Butylbenzene	1.00 ug/l		
4-Chlorotoluene	1.00 ug/l		
1,4-Dichlorobenzene	1.00 ug/l		
1,2-Dibromoethane (EDB)	1.00 ug/l		
1,2-Dichloroethane	1.00 ug/l		
4-Methyl-2-Pentanone (M+	5.00 ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498158 Description: MW-27 Source: Well (Test/Observation)

Begin Date: 93/12/01

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan	Water-Total Result Units
Carbon Tetrachloride	1.00 ug/l	1,3,5-Trimethylbenzene	1.00 ug/l
Acetone	5.00 ug/l	Bromobenzene	1.00 ug/l
Chloroform	1.00 ug/l	Toluene	1.00 ug/l
Benzene	1.00 ug/l	Chlorobenzene	1.00 ug/l
1,1,1-Trichloroethane	1.00 ug/l	1,2,4-Trichlorobenzene	1.00 ug/l
Bromomethane	1.00 ug/l	Dibromochloromethane	1.00 ug/l
Bromomethane	1.00 ug/l	Tetrachloroethene	1.00 ug/l
Dibromomethane	1.00 ug/l	Sec-Butylbenzene	1.00 ug/l
Bromochloromethane	1.00 ug/l	1,3-Dichloropropane	1.00 ug/l
Chloroethane	1.00 ug/l	Cis-1,2-Dichloroethene	1.00 ug/l
Vinyl Chloride	1.00 ug/l	trans-1,2-Dichloroethene	1.00 ug/l
Methylene Chloride	2.00 ug/l	1,3-Dichlorobenzene	1.00 ug/l
Carbon Disulfide	1.00 ug/l	1,1-Dichloropropene	1.00 ug/l
Bromoform	1.00 ug/l	2-Hexanone	40.00J ug/l
Bromodichloromethane	1.00 ug/l	2,2-Dichloropropane	1.00 ug/l
1,1-Dichloroethane	1.00 ug/l	Ethane, 1,1,1,2-Tetrac	1.00 ug/l
1,1-Dichloroethene	1.00 ug/l	Total Xylenes	1.00 ug/l
Trichlorofluoromethane	1.00 ug/l	m p-XYLENE	1.00 ug/l
Methane, Dichlorodiflu	1.00J ug/l	cis-1,3-Dichloropropene	1.00 ug/l
1,2-Dichloropropane	1.00 ug/l	trans-1,3-Dichloroprop	1.00 ug/l
2-Butanone	20.00 ug/l	p-BROMOFLUOROBENZENE	97 † Recov
1,1,2-Trichloroethane	1.00 ug/l	FLUOROBENZENE	101 † Recov
Ethene, trichloro-	1.00 ug/l	TOLUENE-D8	99 † Recov
ETHANE, 1,1,2,2-TETRAC	1.00 ug/l	1,2-DICHLOROBENZENE-D4	105 † Recov
1,2,3-Trichlorobenzene	1.00 ug/l	d4-1,2-Dichloroethane	118 † Recov
1,2,3-Trichloropropane	1.00 ug/l		
Hexachlorobutadiene	1.00 ug/l		
Naphthalene	1.00 ug/l		
o-XYLENE	1.00 ug/l		
2-Chlorotoluene	1.00 ug/l		
1,2-Dichlorobenzene	1.00 ug/l		
1,2,4-Trimethylbenzene	1.00 ug/l		
1,2-Dibromo-3-chloropr	1.00 ug/l		
1,2,3-Trichloropropane	1.00 ug/l		
Tert-Butylbenzene	1.00 ug/l		
Isopropylbenzene (Cume	1.00 ug/l		
p-Isopropyltoluene	1.00 ug/l		
Ethylbenzene	1.00 ug/l		
BENZENE, ETHENYL-(STYR	1.00 ug/l		
BENZENE, PROPYL-	1.00 ug/l		
Butylbenzene	1.00 ug/l		
4-Chlorotoluene	1.00 ug/l		
1,4-Dichlorobenzene	1.00 ug/l		
1,2-Dibromoethane (EDB)	1.00 ug/l		
1,2-Dichloroethane	1.00 ug/l		
4-Methyl-2-Pentanone(M	5.00 ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM

Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498159

Description: MW-20A

Source: Well (Test/Observation)

Begin Date: 93/12/01

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan	Water-Total Result Units
Carbon Tetrachloride	1.00 ug/l	1,3,5-Trimethylbenzene	1.00 ug/l
Acetone	5.00 ug/l	Bromobenzene	1.00 ug/l
Chloroform	1.00 ug/l	Toluene	1.00 ug/l
Benzene	1.00 ug/l	Chlorobenzene	1.00 ug/l
1,1,1-Trichloroethane	1.00 ug/l	1,2,4-Trichlorobenzene	1.00 ug/l
Bromomethane	1.00 ug/l	Dibromochloromethane	1.00 ug/l
Chloromethane	1.00 ug/l	Tetrachloroethene	0.37J* ug/l
Dibromomethane	1.00 ug/l	Sec-Butylbenzene	1.00 ug/l
Bromochloromethane	1.00 ug/l	1,3-Dichloropropane	1.00 ug/l
Chloroethane	1.00 ug/l	Cis-1,2-Dichloroethene	1.00 ug/l
Vinyl Chloride	1.00 ug/l	trans-1,2-Dichloroethene	1.00 ug/l
Methylene Chloride	2.00 ug/l	1,3-Dichlorobenzene	1.00 ug/l
Carbon Disulfide	1.00 ug/l	1,1-Dichloropropene	1.00 ug/l
Bromoform	1.00 ug/l	2-Hexanone	40.00J ug/l
Bromodichloromethane	1.00 ug/l	2,2-Dichloropropane	1.00 ug/l
1,1-Dichloroethane	1.00 ug/l	Ethane, 1,1,1,2-Tetrachloro	1.00 ug/l
1,1-Dichloroethene	1.00 ug/l	Total Xylenes	1.00 ug/l
Trichlorofluoromethane	1.00 ug/l	m p-XYLENE	1.00 ug/l
Methane, Dichlorodifluoride	1.00J ug/l	cis-1,3-Dichloropropene	1.00 ug/l
1,2-Dichloropropane	1.00 ug/l	trans-1,3-Dichloropropene	1.00 ug/l
2-Butanone	20.00 ug/l	p-BROMOFLUOROBENZENE	99 † Recov
1,1,2-Trichloroethane	1.00 ug/l	FLUOROBENZENE	100 † Recov
Ethene, trichloro-	1.00 ug/l	TOLUENE-D8	101 † Recov
ETHANE, 1,1,2,2-TETRACHLORO	1.00 ug/l	1,2-DICHLOROBENZENE-D4	103 † Recov
1,2,3-Trichlorobenzene	1.00 ug/l	d4-1,2-Dichloroethane	121 † Recov
Hexachlorobutadiene	1.00 ug/l		
Naphthalene	1.00 ug/l		
o-XYLENE	1.00 ug/l		
2-Chlorotoluene	1.00 ug/l		
1,2-Dichlorobenzene	1.00 ug/l		
1,2,4-Trimethylbenzene	1.00 ug/l		
1,2-Dibromo-3-chloropropane	1.00 ug/l		
1,2,3-Trichloropropane	1.00 ug/l		
Tert-Butylbenzene	1.00 ug/l		
Isopropylbenzene (Cume)	1.00 ug/l		
p-Isopropyltoluene	1.00 ug/l		
Ethylbenzene	1.00 ug/l		
BENZENE, ETHENYL-(STYRENE)	1.00 ug/l		
BENZENE, PROPYL-	1.00 ug/l		
Butylbenzene	1.00 ug/l		
4-Chlorotoluene	1.00 ug/l		
1,4-Dichlorobenzene	1.00 ug/l		
1,2-Dibromoethane (EDB)	1.00 ug/l		
1,2-Dichloroethane	1.00 ug/l		
4-Methyl-2-Pentanone (MIBK)	5.00 ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498160 Description: MW-32 Source: Well (Test/Observation)

Begin Date: 93/12/02

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan	Water-Total Result Units
Carbon Tetrachloride	1.0U ug/l	1,3,5-Trimethylbenzene	1.0U ug/l
Acetone	5.0U ug/l	Bromobenzene	1.0U ug/l
Chloroform	1.0U ug/l	Toluene	1.0U ug/l
Benzene	1.0U ug/l	Chlorobenzene	1.0U ug/l
1,1,1-Trichloroethane	1.0U ug/l	1,2,4-Trichlorobenzene	1.0U ug/l
Bromomethane	1.0U ug/l	Dibromochloromethane	1.0U ug/l
Chloromethane	1.0U ug/l	Tetrachloroethene	0.67J* ug/l
Dibromomethane	1.0U ug/l	Sec-Butylbenzene	1.0U ug/l
Bromochloromethane	1.0U ug/l	1,3-Dichloropropane	1.0U ug/l
Chloroethane	1.0U ug/l	Cis-1,2-Dichloroethene	0.62J* ug/l
Vinyl Chloride	1.0U ug/l	trans-1,2-Dichloroethene	1.0U ug/l
Methylene Chloride	2.0U ug/l	1,3-Dichlorobenzene	1.0U ug/l
Carbon Disulfide	1.0U ug/l	1,1-Dichloropropene	1.0U ug/l
Bromoform	1.0U ug/l	2-Hexanone	40.00U ug/l
Bromodichloromethane	1.0U ug/l	2,2-Dichloropropane	1.0U ug/l
1,1-Dichloroethane	1.0U ug/l	Ethane, 1,1,1,2-Tetrachloro	1.0U ug/l
1,1-Dichloroethene	1.0U ug/l	Total Xylenes	1.0U ug/l
Trichlorofluoromethane	1.0U ug/l	m p-XYLENE	1.0U ug/l
Methane, Dichlorodifluoro	1.00J ug/l	cis-1,3-Dichloropropene	1.0U ug/l
1,2-Dichloropropane	1.0U ug/l	trans-1,3-Dichloropropene	1.0U ug/l
2-Butanone	20.0U ug/l	p-BROMOFLUOROBENZENE	98 \$ Recov
1,1,2-Trichloroethane	1.0U ug/l	FLUOROBENZENE	102 \$ Recov
Ethene, trichloro-	1.0U ug/l	TOLUENE-D8	101 \$ Recov
ETHANE, 1,1,2,2-TETRACHLORO	1.0U ug/l	1,2-DICHLOROBENZENE-D4	109 \$ Recov
1,2,3-Trichlorobenzene	1.0U ug/l	d4-1,2-Dichloroethane	118 \$ Recov
Hexachlorobutadiene	1.0U ug/l		
Naphthalene	1.0U ug/l		
o-XYLENE	1.0U ug/l		
2-Chlorotoluene	1.0U ug/l		
1,2-Dichlorobenzene	1.0U ug/l		
1,2,4-Trimethylbenzene	1.0U ug/l		
1,2-Dibromo-3-chloropropane	1.0U ug/l		
1,2,3-Trichloropropane	1.0U ug/l		
tert-Butylbenzene	1.0U ug/l		
Isopropylbenzene (Cume)	1.0U ug/l		
p-Isopropyltoluene	1.0U ug/l		
Ethylbenzene	1.0U ug/l		
BENZENE, ETHENYL-(STYR)	1.0U ug/l		
BENZENE, PROPYL-	1.0U ug/l		
Butylbenzene	1.0U ug/l		
4-Chlorotoluene	1.0U ug/l		
1,4-Dichlorobenzene	1.0U ug/l		
1,2-Dibromoethane (EDB)	1.0U ug/l		
1,2-Dichloroethane	1.0U ug/l		
4-Methyl-2-Pentanone (M+	5.0U ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498161

Description: MW-31

Source: Well (Test/Observation)

Begin Date: 93/12/02

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan	Water-Total Result Units
Carbon Tetrachloride	1.0U ug/l	1,3,5-Trimethylbenzene	1.0U ug/l
Acetone	5.0U ug/l	Bromobenzene	1.0U ug/l
Chloroform	1.0U ug/l	Toluene	1.0U ug/l
Benzene	1.0U ug/l	Chlorobenzene	1.0U ug/l
1,1,1-Trichloroethane	1.0U ug/l	1,2,4-Trichlorobenzene	1.0U ug/l
Bromomethane	1.0U ug/l	Dibromochloromethane	1.0U ug/l
Chloromethane	1.0U ug/l	Tetrachloroethene	0.75J* ug/l
Dibromomethane	1.0U ug/l	Sec-Butylbenzene	1.0U ug/l
Bromochloromethane	1.0U ug/l	1,3-Dichloropropane	1.0U ug/l
Chloroethane	1.0U ug/l	Cis-1,2-Dichloroethene	1.2 * ug/l
Vinyl Chloride	1.0U ug/l	trans-1,2-Dichloroethene	1.0U ug/l
Methylene Chloride	2.0U ug/l	1,3-Dichlorobenzene	1.0U ug/l
Carbon Disulfide	1.0U ug/l	1,1-Dichloropropene	1.0U ug/l
Bromoform	1.0U ug/l	2-Hexanone	40.00J ug/l
Bromodichloromethane	1.0U ug/l	2,2-Dichloropropane	1.0U ug/l
1,1-Dichloroethane	1.0U ug/l	Ethane, 1,1,1,2-Tetrachloro	1.0U ug/l
1,1-Dichloroethene	1.0U ug/l	Total Xylenes	1.0U ug/l
Trichlorofluoromethane	1.0U ug/l	m p-XYLENE	1.0U ug/l
Methane, Dichlorodifluoro	1.00J ug/l	cis-1,3-Dichloropropene	1.0U ug/l
1,2-Dichloropropane	1.0U ug/l	trans-1,3-Dichloropropene	1.0U ug/l
2-Butanone	20.00 ug/l	p-BROMOFLUOROBENZENE	102 † Recov
1,1,2-Trichloroethane	1.0U ug/l	FLUOROBENZENE	102 † Recov
Ethene, trichloro-	1.0U ug/l	TOLUENE-D8	103 † Recov
ETHANE, 1,1,2,2-TETRACHLORO	1.0U ug/l	1,2-DICHLOROBENZENE-D4	98 † Recov
1,2,3-Trichlorobenzene	1.0U ug/l	d4-1,2-Dichloroethane	125 † Recov
Hexachlorobutadiene	1.0U ug/l		
Naphthalene	1.0U ug/l		
o-XYLENE	1.0U ug/l		
2-Chlorotoluene	1.0U ug/l		
1,2-Dichlorobenzene	1.0U ug/l		
1,2,4-Trimethylbenzene	1.0U ug/l		
1,2-Dibromo-3-chloropropane	1.0U ug/l		
1,2,3-Trichloropropane	1.0U ug/l		
Tert-Butylbenzene	1.0U ug/l		
Isopropylbenzene (Cume)	1.0U ug/l		
p-Isopropyltoluene	1.0U ug/l		
Ethylbenzene	1.0U ug/l		
BENZENE, ETHENYL-(STYR)	1.0U ug/l		
BENZENE, PROPYL-	1.0U ug/l		
Butylbenzene	1.0U ug/l		
4-Chlorotoluene	1.0U ug/l		
1,4-Dichlorobenzene	1.0U ug/l		
1,2-Dibromoethane (EDB)	1.0U ug/l		
1,2-Dichloroethane	1.0U ug/l		
4-Methyl-2-Pentanone (M)	5.0U ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM

Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498162

Source: Well (Test/Observation)

Description: MW-21

Begin Date: 93/12/02

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan *** Continued ***	Water-Total Result Units
Carbon Tetrachloride	1.0U ug/l	1,3,5-Trimethylbenzene	1.0U ug/l
Acetone	5.0U ug/l	Bromobenzene	1.0U ug/l
Chloroform	1.0U ug/l	Toluene	1.0U ug/l
Benzene	1.0U ug/l	Chlorobenzene	1.0U ug/l
1,1,1-Trichloroethane	1.0U ug/l	1,2,4-Trichlorobenzene	1.0U ug/l
Bromomethane	1.0U ug/l	Dibromochloromethane	1.0U ug/l
Chloromethane	1.0U ug/l	Tetrachloroethene	1.6 * ug/l
Dibromomethane	1.0U ug/l	Sec-Butylbenzene	1.0U ug/l
Bromochloromethane	1.0U ug/l	1,3-Dichloropropane	1.0U ug/l
Chloroethane	1.0U ug/l	Cis-1,2-Dichloroethene	0.40J* ug/l
Vinyl Chloride	1.0U ug/l	trans-1,2-Dichloroethene	1.0U ug/l
Methylene Chloride	2.0U ug/l	1,3-Dichlorobenzene	1.0U ug/l
Carbon Disulfide	1.0U ug/l	1,1-Dichloropropene	1.0U ug/l
Bromoform	1.0U ug/l	2-Hexanone	40.0UJ ug/l
Bromodichloromethane	1.0U ug/l	2,2-Dichloropropane	1.0U ug/l
1,1-Dichloroethane	1.0U ug/l	Ethane, 1,1,1,2-Tetrac+	1.0U ug/l
1,1-Dichloroethene	1.0U ug/l	Total Xylenes	1.0U ug/l
Trichlorofluoromethane	1.0U ug/l	m p-XYLENE	1.0U ug/l
Methane, Dichlorodiflu+	1.0UJ ug/l	cis-1,3-Dichloropropene	1.0U ug/l
1,2-Dichloropropane	20.0U ug/l	trans-1,3-Dichloroprop+	1.0U ug/l
1,1,2-Trichloroethane	1.0U ug/l	P-BROMOFLUOROBENZENE	100 † Recov
Ethene, trichloro-	1.0U ug/l	FLUOROBENZENE	102 † Recov
ETHANE, 1,1,2,2-PETRAC+	1.0U ug/l	TOLUENE-D8	100 † Recov
1,2,3-Trichlorobenzene	1.0U ug/l	1,2-DICHLOROBENZENE-D4	105 † Recov
Hexachlorobutadiene	1.0U ug/l	d4-1,2-Dichloroethane	125 † Recov
Naphthalene	1.0U ug/l		
o-XYLENE	1.0U ug/l		
2-Chlorotoluene	1.0U ug/l		
1,2-Dichlorobenzene	1.0U ug/l		
1,2,4-Trimethylbenzene	1.0U ug/l		
1,2-Dibromo-3-chloropr+	1.0U ug/l		
1,2,3-Trichloropropane	1.0U ug/l		
tert-Butylbenzene	1.0U ug/l		
Isopropylbenzene (Cume+	1.0U ug/l		
p-Isopropyltoluene	1.0U ug/l		
Ethylbenzene	1.0U ug/l		
BENZENE, ETHENYL-(STYR+	1.0U ug/l		
BENZENE, PROPYL-	1.0U ug/l		
Butylbenzene	1.0U ug/l		
4-Chlorotoluene	1.0U ug/l		
1,4-Dichlorobenzene	1.0U ug/l		
1,2-Dibromoethane (EDB)	1.0U ug/l		
1,2-Dichloroethane	1.0U ug/l		
4-Methyl-2-Pentanone (M+	5.0U ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498163 Description: MW-16A Source: Well (Test/Observation)

Begin Date: 93/12/02

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan	Water-Total Result Units
Carbon Tetrachloride	1.00 ug/l	1,3,5-Trimethylbenzene	1.00 ug/l
Acetone	5.00 ug/l	Bromobenzene	1.00 ug/l
Chloroform	1.00 ug/l	Toluene	1.00 ug/l
Benzene	1.00 ug/l	Chlorobenzene	1.00 ug/l
1,1,1-Trichloroethane	1.00 ug/l	1,2,4-Trichlorobenzene	1.00 ug/l
Bromomethane	1.00 ug/l	Dibromochloromethane	1.00 ug/l
Dibromomethane	1.00 ug/l	Tetrachloroethene	13.9 * ug/l
Bromochloromethane	1.00 ug/l	Sec-Butylbenzene	1.00 ug/l
Chloroethane	1.00 ug/l	1,3-Dichloropropane	1.00 ug/l
Vinyl Chloride	1.00 ug/l	Cis-1,2-Dichloroethene	0.79J* ug/l
Methylene Chloride	2.00 ug/l	trans-1,2-Dichloroethene	1.00 ug/l
Carbon Disulfide	1.00 ug/l	1,3-Dichlorobenzene	1.00 ug/l
Bromoform	1.00 ug/l	1,1-Dichloropropene	1.00 ug/l
Bromodichloromethane	1.00 ug/l	2-Hexanone	40.00J ug/l
1,1-Dichloroethane	1.00 ug/l	2,2-Dichloropropane	1.00 ug/l
1,1-Dichloroethene	1.00 ug/l	Ethane, 1,1,1,2-Tetrac	1.00 ug/l
Trichlorofluoromethane	1.00 ug/l	Total Xylenes	1.00 ug/l
Methane, Dichlorodiflu	1.00J ug/l	m p-XYLENE	1.00 ug/l
1,2-Dichloropropane	1.00 ug/l	cis-1,3-Dichloropropene	1.00 ug/l
1,2-Dichloroethane	20.00 ug/l	trans-1,3-Dichloroprop	1.00 ug/l
1,1,2-Trichloroethane	1.00 ug/l	p-BROMOFLUOROBENZENE	94 † Recov
Ethene, trichloro-	0.34J* ug/l	FLUOROBENZENE	101 † Recov
ETHANE, 1,1,2,2-TETRAC	1.00 ug/l	TOLUENE-D8	98 † Recov
1,2,3-Trichlorobenzene	1.00 ug/l	1,2-DICHLOROBENZENE-D4	105 † Recov
Hexachlorobutadiene	1.00 ug/l	d4-1,2-Dichloroethane	104 † Recov
Naphthalene	1.00 ug/l		
o-XYLENE	1.00 ug/l		
2-Chlorotoluene	1.00 ug/l		
1,2-Dichlorobenzene	1.00 ug/l		
1,2,4-Trimethylbenzene	1.00 ug/l		
1,2-Dibromo-3-chloropr	1.00 ug/l		
1,2,3-Trichloropropane	1.00 ug/l		
Tert-Butylbenzene	1.00 ug/l		
Isopropylbenzene (Cume	1.00 ug/l		
p-Isopropyltoluene	1.00 ug/l		
Ethylbenzene	1.00 ug/l		
BENZENE, ETHENYL-(STYR	1.00 ug/l		
BENZENE, PROPYL-	1.00 ug/l		
Butylbenzene	1.00 ug/l		
4-Chlorotoluene	1.00 ug/l		
1,4-Dichlorobenzene	1.00 ug/l		
1,2-Dibromoethane (EDB)	1.00 ug/l		
1,2-Dichloroethane	1.00 ug/l		
4-Methyl-2-Pentanone(M+	5.00 ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM

Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498164

Description: MW-16B

Source: Well (Test/Observation)

Begin Date: 93/12/02

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan *** Continued ***	Water-Total Result Units
Carbon Tetrachloride	1.0U ug/l		
Acetone	5.0U ug/l	1,3,5-Trimethylbenzene	1.0U ug/l
Chloroform	1.0U ug/l	Bromobenzene	1.0U ug/l
Benzene	1.0U ug/l	Toluene	1.0U ug/l
1,1,1-Trichloroethane	1.0U ug/l	Chlorobenzene	1.0U ug/l
Bromomethane	1.0U ug/l	1,2,4-Trichlorobenzene	1.0U ug/l
Dibromomethane	1.0U ug/l	Dibromochloromethane	1.0U ug/l
Bromochloromethane	1.0U ug/l	Tetrachloroethene	12.0 * ug/l
Chloroethane	1.0U ug/l	Sec-Butylbenzene	1.0U ug/l
Vinyl Chloride	1.0U ug/l	1,3-Dichloropropane	1.0U ug/l
Methylene Chloride	2.0U ug/l	Cis-1,2-Dichloroethene	0.70J* ug/l
Carbon Disulfide	1.0U ug/l	trans-1,2-Dichloroethene	1.0U ug/l
Bromodichloromethane	1.0U ug/l	1,3-Dichlorobenzene	1.0U ug/l
1,1-Dichloroethane	1.0U ug/l	1,1-Dichloropropene	40.0UJ ug/l
1,1-Dichloroethene	1.0U ug/l	2-Hexanone	1.0U ug/l
Trichlorofluoromethane	1.0U ug/l	2,2-Dichloropropane	1.0U ug/l
Methane, Dichlorodifluo	1.0UJ ug/l	Ethane, 1,1,1,2-Tetrac	1.0U ug/l
1,2-Dichloropropane	1.0U ug/l	Total Xylenes	1.0U ug/l
1,1,2-Trichloroethane	1.0U ug/l	m p-XYLENE	1.0U ug/l
Ethene, trichloro-	0.30J* ug/l	cis-1,3-Dichloropropene	1.0U ug/l
ETHANE, 1,1,2,2-TETRAC	1.0U ug/l	trans-1,3-Dichloroprop	1.0U ug/l
1,2,3-Trichlorobenzene	1.0U ug/l	p-BROMOFLUOROBENZENE	97 † Recov
Hexachlorobutadiene	1.0U ug/l	FLUOROBENZENE	99 † Recov
Naphthalene	1.0U ug/l	TOLUENE-D8	97 † Recov
O-XYLENE	1.0U ug/l	1,2-DICHLOROBENZENE-D4	99 † Recov
2-Chlorotoluene	1.0U ug/l	d4-1,2-Dichloroethane	107 † Recov
1,2-Dichlorobenzene	1.0U ug/l		
1,2,4-Trimethylbenzene	1.0U ug/l		
1,2-Dibromo-3-chloropr	1.0U ug/l		
1,2,3-Trichloropropane	1.0U ug/l		
Tert-Butylbenzene	1.0U ug/l		
Isopropylbenzene (Cume	1.0U ug/l		
p-Isopropyltoluene	1.0U ug/l		
Ethylbenzene	1.0U ug/l		
BENZENE, ETHENYL-(STYR	1.0U ug/l		
BENZENE, PROPYL-	1.0U ug/l		
Butylbenzene	1.0U ug/l		
4-Chlorotoluene	1.0U ug/l		
1,4-Dichlorobenzene	1.0U ug/l		
1,2-Dibromoethane (EDB)	1.0U ug/l		
1,2-Dichloroethane	1.0U ug/l		
4-Methyl-2-Pentanone (M	5.0U ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM

Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498165

Description: MW-20B

Source: Well (Test/Observation)

Begin Date: 93/12/02

VOA - PP Scan	Water-Total Result	Units	VOA - PP Scan	Water-Total Result	Units
Carbon Tetrachloride	50.00	ug/l			
Acetone	288UJ	ug/l	1,3,5-Trimethylbenzene	50.00	ug/l
Chloroform	50.00	ug/l	Bromobenzene	50.00	ug/l
Benzene	50.00	ug/l	Toluene	50.00	ug/l
1,1,1-Trichloroethane	50.00	ug/l	Chlorobenzene	50.00	ug/l
Bromomethane	50.00	ug/l	1,2,4-Trichlorobenzene	50.00	ug/l
Bromochloromethane	50.00	ug/l	Dibromochloroethane	50.00	ug/l
Dibromomethane	50.00	ug/l	Tetrachloroethene	187 *	ug/l
Bromochloroethane	50.00	ug/l	Sec-Butylbenzene	50.00	ug/l
Chloroethane	50.00	ug/l	1,3-Dichloropropane	50.00	ug/l
Vinyl Chloride	50.00	ug/l	Cis-1,2-Dichloroethene	8.2J*	ug/l
Methylene Chloride	100U	ug/l	trans-1,2-Dichloroethene	50.00	ug/l
Carbon Disulfide	50.00	ug/l	1,3-Dichlorobenzene	50.00	ug/l
Bromoform	50.00	ug/l	1,1-Dichloropropene	50.00	ug/l
Bromodichloromethane	50.00	ug/l	2-Hexanone	2000UJ	ug/l
1,1-Dichloroethane	50.00	ug/l	2,2-Dichloropropane	50.00	ug/l
1,1-Dichloroethene	50.00	ug/l	Ethane, 1,1,1,2-Tetrac	50.00	ug/l
Trichlorofluoromethane	50.00	ug/l	Total Xylenes	50.00	ug/l
Methane, Dichlorodiflu	50.00UJ	ug/l	m p-XYLENE	50.00	ug/l
1,2-Dichloropropane	50.00	ug/l	cis-1,3-Dichloropropene	50.00	ug/l
2-Butanone	1000UJ	ug/l	trans-1,3-Dichloroprop	50.00	ug/l
1,1,2-Trichloroethane	50.00	ug/l	p-BROMOFLUOROBENZENE	97	
Ethene, trichloro-	50.00	ug/l	FLUOROBENZENE	99	
ETHANE, 1,1,2,2-TETRAC	50.00	ug/l	TOLUENE-D8	98	
1,2,3-Trichlorobenzene	50.00	ug/l	1,2-DICHLOROBENZENE-D4	99	
Hexachlorobutadiene	50.00	ug/l	d4-1,2-Dichloroethane	116	
Naphthalene	50.00	ug/l			
o-XYLENE	50.00	ug/l			
2-Chlorotoluene	50.00	ug/l			
1,2-Dichlorobenzene	50.00	ug/l	VOA - PP Scan	Water-Total	
1,2,4-Trimethylbenzene	50.00	ug/l	Matrix Spike #1	Result	Units
1,2-Dibromo-3-chloropr	50.00	ug/l	Carbon Tetrachloride	109	ug/l
1,2,3-Trichloropropane	50.00	ug/l	Acetone	NAR	
Isopropylbenzene (Cume	50.00	ug/l	Chloroform	110	ug/l
p-Isopropyltoluene	50.00	ug/l	Benzene	91	ug/l
Ethylbenzene	50.00	ug/l	1,1,1-Trichloroethane	109	ug/l
BENZENE, ETHENYL-(STYR	50.00	ug/l	Bromomethane	96	ug/l
BENZENE, PROPYL-	50.00	ug/l	Chloromethane	100	ug/l
Butylbenzene	50.00	ug/l	Dibromomethane	102	ug/l
4-Chlorotoluene	50.00	ug/l	Bromochloromethane	97	ug/l
1,4-Dichlorobenzene	50.00	ug/l	Chloroethane	88	ug/l
1,2-Dibromoethane (EDB)	50.00	ug/l	Vinyl Chloride	95	ug/l
1,2-Dichloroethane	50.00	ug/l	Methylene Chloride	96	ug/l
4-Methyl-2-Pentanone (M	250U	ug/l	Carbon Disulfide	75	ug/l
			Bromoform	93	ug/l

(Continued on next page)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498165 Description: MW-20B

Source: Well (Test/Observation)

Begin Date: 93/12/02

VOA - PP Scan *** Continued *** Matrix Spike #1	Water-Total *** Result	Units	VOA - PP Scan *** Continued *** Matrix Spike #2	Water-Total *** Result	Units	Tent Ident - VOA Sca	Water-Total Result	Units
1,3-Dichlorobenzene	92	‡ Recov	o-XYLENE	106	‡ Recov			
1,1-Dichloropropene	97	‡ Recov	2-Chlorotoluene	99	‡ Recov			
2-Hexanone	REJ	‡ Recov	1,2-Dichlorobenzene	98	‡ Recov			
2,2-Dichloropropene	109	‡ Recov	1,2,4-Trimethylbenzene	100	‡ Recov			
Ethane, 1,1,1,2-Tetrac+	103	‡ Recov	1,2-Dibromo-3-chloropr+	90	‡ Recov			
Total Xylenes	95	‡ Recov	1,2,3-Trichloropropane	109	‡ Recov			
TOLUENE-D8	98	‡ Recov	Tert-Butylbenzene	103	‡ Recov			
1,2-DICHLOROBENZENE-D4	92	‡ Recov	Isopropylbenzene (Cume+	101	‡ Recov			
cis-1,3-Dichloropropene	93	‡ Recov	p-Isopropyltoluene	96	‡ Recov			
trans-1,3-Dichloroprop+	95	‡ Recov	Ethylbenzene	105	‡ Recov			
d4-1,2-Dichloroethane	128	‡ Recov	BENZENE, ETHENYL-(STYR+	101	‡ Recov			
m p-XYLENE	93	‡ Recov	BENZENE, PROPYL-	98	‡ Recov			
			Butylbenzene	99	‡ Recov			
			4-Chlorotoluene	97	‡ Recov			
			1,4-Dichlorobenzene	99	‡ Recov			
			1,2-Dibromoethane (EDB)	106	‡ Recov			
			1,2-Dichloroethane	125	‡ Recov			
			4-Methyl-2-Pentanone(M+	99	‡ Recov			
Carbon Tetrachloride	120	‡ Recov	1,3,5-Trimethylbenzene	101	‡ Recov			
Acetone	NAR	‡ Recov	Bromobenzene	98	‡ Recov			
Chloroform	116	‡ Recov	Toluene	103	‡ Recov			
Benzene	98	‡ Recov	Chlorobenzene	103	‡ Recov			
1,1,1-Trichloroethane	120	‡ Recov	1,2,4-Trichlorobenzene	101	‡ Recov			
Bromomethane	114	‡ Recov	Dibromochloromethane	106	‡ Recov			
Chloromethane	119	‡ Recov	Tetrachloroethene	142	‡ Recov			
Dibromomethane	105	‡ Recov	Sec-Butylbenzene	100	‡ Recov			
Bromochloromethane	97	‡ Recov	1,3-Dichloropropane	99	‡ Recov			
Chloroethane	98	‡ Recov	Cis-1,2-Dichloroethene	100	‡ Recov			
Vinyl Chloride	108	‡ Recov	trans-1,2-Dichloroethe+	96	‡ Recov			
Methylene Chloride	104	‡ Recov	p-BROMOFLUOROBENZENE	115	‡ Recov			
Carbon Disulfide	84	‡ Recov	FLUOROBENZENE	99	‡ Recov			
Bromoform	98	‡ Recov	1,3-Dichlorobenzene	99	‡ Recov			
Bromodichloromethane	111	‡ Recov	1,1-Dichloropropene	105	‡ Recov			
1,1-Dichloroethane	103	‡ Recov	2-Hexanone	REJ	‡ Recov			
1,1-Dichloroethene	97	‡ Recov	2,2-Dichloropropane	114	‡ Recov			
Trichlorofluoromethane	118	‡ Recov	Ethane, 1,1,1,2-Tetrac+	107	‡ Recov			
Methane, Dichlorodiflu+	131	‡ Recov	Total Xylenes	61	‡ Recov			
1,2-Dichloropropane	95	‡ Recov	TOLUENE-D8	99	‡ Recov			
2-Butanone	151	‡ Recov	1,2-DICHLOROBENZENE-D4	96	‡ Recov			
1,1,2-Trichloroethane	101	‡ Recov	cis-1,3-Dichloropropene	92	‡ Recov			
Ethene, trichloro-	100	‡ Recov	trans-1,3-Dichloroprop+	98	‡ Recov			
ETHANE, 1,1,2,2-TETRAC+	109	‡ Recov	d4-1,2-Dichloroethane	127	‡ Recov			
1,2,3-Trichlorobenzene	93	‡ Recov	m p-XYLENE	39	‡ Recov			
Hexachlorobutadiene	107	‡ Recov						
Naphthalene	90	‡ Recov						

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM

Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498166

Description: MW-20A

Source: Well (Test/Observation)

Begin Date: 93/12/02

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan	Water-Total Result Units
Carbon Tetrachloride	1.00 ug/l	1,3,5-Trimethylbenzene	1.00 ug/l
Acetone	5.00 ug/l	Bromobenzene	1.00 ug/l
Chloroform	1.00 ug/l	Toluene	1.00 ug/l
Benzene	1.00 ug/l	Chlorobenzene	1.00 ug/l
1,1,1-Trichloroethane	1.00 ug/l	1,2,4-Trichlorobenzene	1.00 ug/l
Bromomethane	1.00 ug/l	Dibromochloromethane	1.00 ug/l
Chloromethane	1.00 ug/l	Tetrachloroethene	0.27J* ug/l
Dibromomethane	1.00 ug/l	Sec-Butylbenzene	1.00 ug/l
Bromochloromethane	1.00 ug/l	1,3-Dichloropropane	1.00 ug/l
Chloroethane	1.00 ug/l	Cis-1,2-Dichloroethene	1.00 ug/l
Vinyl Chloride	1.00 ug/l	trans-1,2-Dichloroethene	1.00 ug/l
Methylene Chloride	2.00 ug/l	1,3-Dichlorobenzene	1.00 ug/l
Carbon Disulfide	1.00 ug/l	1,1-Dichloropropene	1.00 ug/l
Bromoform	1.00 ug/l	2-Hexanone	40.00UJ ug/l
Bromodichloromethane	1.00 ug/l	2,2-Dichloropropane	1.00 ug/l
1,1-Dichloroethane	1.00 ug/l	Ethane, 1,1,1,2-Tetrac	1.00 ug/l
1,1-Dichloroethene	1.00 ug/l	Total Xylenes	1.00 ug/l
Trichlorofluoromethane	1.00 ug/l	m p-XYLENE	1.00 ug/l
Methane, Dichlorodiflu	1.00J ug/l	cis-1,3-Dichloropropene	1.00 ug/l
1,2-Dichloropropane	1.00 ug/l	trans-1,3-Dichloroprop+	1.00 ug/l
2-Butanone	20.00 ug/l	p-BROMOFLUOROBENZENE	101 † Recov
1,1,2-Trichloroethane	1.00 ug/l	FLUOROBENZENE	99 † Recov
Ethene, trichloro-	1.00 ug/l	TOLUENE-D8	98 † Recov
ETHANE, 1,1,2,2-TETRAC	1.00 ug/l	1,2-DICHLOROBENZENE-D4	100 † Recov
1,2,3-Trichlorobenzene	1.00 ug/l	d4-1,2-Dichloroethane	115 † Recov
Hexachlorobutadiene	1.00 ug/l		
Naphthalene	1.00 ug/l		
o-XYLENE	1.00 ug/l		
2-Chlorotoluene	1.00 ug/l		
1,2-Dichlorobenzene	1.00 ug/l		
1,2,4-Trimethylbenzene	1.00 ug/l		
1,2-Dibromo-3-chloropr+	1.00 ug/l		
1,2,3-Trichloropropane	1.00 ug/l		
Tert-Butylbenzene	1.00 ug/l		
Isopropylbenzene (Cume+	1.00 ug/l		
p-Isopropyltoluene	1.00 ug/l		
Ethylbenzene	1.00 ug/l		
BENZENE, ETHENYL-(STYR+	1.00 ug/l		
BENZENE, PROPYL-	1.00 ug/l		
Butylbenzene	1.00 ug/l		
4-Chlorotoluene	1.00 ug/l		
1,4-Dichlorobenzene	1.00 ug/l		
1,2-Dibromoethane (EDB)	1.00 ug/l		
1,2-Dichloroethane	1.00 ug/l		
4-Methyl-2-Pentanone(M+	5.00 ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM

Account: D3P11

Laboratory: Ecology, Manchester

Sample No: 93 498167

Description: TRANSFER

Source: Water (General)

Begin Date: 93/12/02

VOA - PP Scan	Water-Total Result Units	VOA - PP Scan *** Continued ***	Water-Total Result Units
Carbon Tetrachloride	2.00 ug/l	1,3,5-Trimethylbenzene	2.00 ug/l
Acetone	10.00 ug/l	Bromobenzene	2.00 ug/l
Chloroform	2.00 ug/l	Toluene	2.00 ug/l
Benzene	2.00 ug/l	Chlorobenzene	2.00 ug/l
1,1,1-Trichloroethane	2.00 ug/l	1,2,4-Trichlorobenzene	2.00 ug/l
Bromomethane	2.00 ug/l	Dibromochloromethane	2.00 ug/l
Chloromethane	2.00 ug/l	Tetrachloroethene	2.00 ug/l
Dibromomethane	2.00 ug/l	Sec-Butylbenzene	2.00 ug/l
Bromochloromethane	2.00 ug/l	1,3-Dichloropropane	2.00 ug/l
Chloroethane	2.00 ug/l	Cis-1,2-Dichloroethene	2.00 ug/l
Vinyl Chloride	2.00 ug/l	trans-1,2-Dichloroethene	2.00 ug/l
Methylene Chloride	4.00 ug/l	1,3-Dichlorobenzene	2.00 ug/l
Carbon Disulfide	2.00 ug/l	1,1-Dichloropropane	2.00 ug/l
Bromoform	2.00 ug/l	2-Hexanone	80.00J ug/l
Bromodichloromethane	2.00 ug/l	2,2-Dichloropropane	2.00 ug/l
1,1-Dichloroethane	2.00 ug/l	Ethane, 1,1,1,2-Tetrac	2.00 ug/l
1,1-Dichloroethene	2.00 ug/l	Total Xylenes	2.00 ug/l
Trichlorofluoromethane	2.00 ug/l	m p-XYLENE	2.00 ug/l
Methane, Dichlorodiflu	2.00J ug/l	cis-1,3-Dichloropropene	2.00 ug/l
1,2-Dichloropropane	2.00 ug/l	trans-1,3-Dichloroprop+	2.00 ug/l
2-Butanone	40.00 ug/l	p-BROMOFLUOROBENZENE	102 ug/l
1,1,2-Trichloroethane	2.00 ug/l	FLUOROBENZENE	99 ug/l
Ethene, trichloro-	2.00 ug/l	TOLUENE-D8	96 ug/l
ETHANE, 1,1,2,2-TETRAC+	2.00 ug/l	1,2-DICHLOROBENZENE-D4	94 ug/l
1,2,3-Trichlorobenzene	2.00 ug/l	d4-1,2-Dichloroethane	123 ug/l
Hexachlorobutadiene	2.00 ug/l		
Napthalene	2.00 ug/l		
o-XYLENE	2.00 ug/l		
2-Chlorotoluene	2.00 ug/l		
1,2-Dichlorobenzene	2.00 ug/l		
1,2,4-Trimethylbenzene	2.00 ug/l		
1,2-Dibromo-3-chloropr+	2.00 ug/l		
1,2,3-Trichloropropane	2.00 ug/l		
tert-Butylbenzene	2.00 ug/l		
Isopropylbenzene (Cume+	2.00 ug/l		
p-Isopropyltoluene	2.00 ug/l		
Ethylbenzene	2.00 ug/l		
BENZENE, ETHENYL- (STYR+	2.00 ug/l		
BENZENE, PROPYL-	2.00 ug/l		
Butylbenzene	2.00 ug/l		
4-Chlorotoluene	2.00 ug/l		
1,4-Dichlorobenzene	2.00 ug/l		
1,2-Dibromoethane (EDB)	2.00 ug/l		
1,2-Dichloroethane	2.00 ug/l		
4-Methyl-2-Pentanone (M+	10.00 ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM

Account: D3P11

Blank ID: vbw3341

VOA - PP Scan Blank #1	Water-Total Result Units	VOA - PP Scan *** Continued *** Blank #1	Water-Total Result Units
Carbon Tetrachloride	1.0U ug/l		
Acetone	4.0J* ug/l	1,3,5-Trimethylbenzene	1.0U ug/l
Chloroform	1.0U ug/l	Bromobenzene	1.0U ug/l
Benzene	0.056J* ug/l	Toluene	1.0U ug/l
1,1,1-Trichloroethane	1.0U ug/l	Chlorobenzene	0.16J* ug/l
Bromomethane	1.0U ug/l	1,2,4-Trichlorobenzene	1.0U ug/l
Chloromethane	1.0U ug/l	Dibromochloromethane	1.0U ug/l
Dibromomethane	1.0U ug/l	Tetrachloroethene	1.0U ug/l
Bromochloromethane	1.0U ug/l	Sec-Butylbenzene	1.0U ug/l
Chloroethane	1.0U ug/l	1,3-Dichloropropane	1.0U ug/l
Vinyl Chloride	1.0U ug/l	Cis-1,2-Dichloroethene	1.0U ug/l
Methylene Chloride	1.0J* ug/l	trans-1,2-Dichloroethene	1.0U ug/l
Carbon Disulfide	1.0U ug/l	1,3-Dichlorobenzene	1.0U ug/l
Bromoform	1.0U ug/l	1,1-Dichloropropene	1.0U ug/l
Bromodichloromethane	1.0U ug/l	2-Hexanone	40.0UJ ug/l
1,1-Dichloroethane	1.0U ug/l	2,2-Dichloropropane	1.0U ug/l
1,1-Dichloroethene	1.0U ug/l	Ethane, 1,1,1,2-Tetrac+	1.0U ug/l
Trichlorofluoromethane	1.0U ug/l	Total Xylenes	1.0U ug/l
Methane, Dichlorodiflu+	1.0UJ ug/l	m p-XYLENE	1.0U ug/l
1,2-Dichloropropane	1.0U ug/l	cis-1,3-Dichloropropene	1.0U ug/l
2-Butanone	20.0U ug/l	trans-1,3-Dichloroprop+	1.0U ug/l
1,1,2-Trichloroethane	1.0U ug/l	p-BROMOFLUOROBENZENE	89 % Recov
Ethene, trichloro-	1.0U ug/l	FLUOROBENZENE	101 % Recov
ETHANE, 1,1,2,2-TETRAC+	1.0U ug/l	TOLUENE-D8	98 % Recov
1,2,3-Trichlorobenzene	1.0U ug/l	1,2-DICHLOROBENZENE-D4	101 % Recov
Hexachlorobutadiene	0.39J* ug/l	d4-1,2-Dichloroethane	100 % Recov
Napthalene	1.0U ug/l		
o-XYLENE	1.0U ug/l		
2-Chlorotoluene	1.0U ug/l		
1,2-Dichlorobenzene	0.12J* ug/l		
1,2,4-Trimethylbenzene	1.0U ug/l		
1,2-Dibromo-3-chloropr+	1.0U ug/l		
1,2,3-Trichloropropane	1.0U ug/l		
Tert-Butylbenzene	1.0U ug/l		
Isopropylbenzene (Cume+	1.0U ug/l		
p-Isopropyltoluene	0.012J* ug/l		
Ethylbenzene	1.0U ug/l		
BENZENE, ETHENYL-(STYR+	1.0U ug/l		
BENZENE, PROPYL-	1.0U ug/l		
Butylbenzene	1.0U ug/l		
4-Chlorotoluene	1.0U ug/l		
1,4-Dichlorobenzene	0.095J* ug/l		
1,2-Dibromoethane (EDB)	1.0U ug/l		
1,2-Dichloroethane	1.0U ug/l		
4-Methyl-2-Pentanone(M+	5.0U ug/l		

(Sample Complete)

Project: DOE-729X LAKEWOOD/PLAZA CLEANERS

Officer: PZM

Account: D3P11

Blank ID: vbw3342

VOA - PP Scan Blank #2	Water-Total Result Units	VOA - PP Scan *** Continued ***	Water-Total Result Units
Carbon Tetrachloride	1.0U ug/l		
Acetone	1.5J* ug/l	1,3,5-Trimethylbenzene	1.0U ug/l
Chloroform	1.0U ug/l	Bromobenzene	1.0U ug/l
Benzene	0.040J* ug/l	Toluene	0.014J* ug/l
1,1,1-Trichloroethane	1.0U ug/l	Chlorobenzene	0.17J* ug/l
Bromomethane	1.0U ug/l	1,2,4-Trichlorobenzene	0.41J* ug/l
Dibromomethane	1.0U ug/l	Dibromochloromethane	1.0U ug/l
Bromochloromethane	1.0U ug/l	Tetrachloroethene	1.0U ug/l
Chloroethane	1.0U ug/l	Sec-Butylbenzene	1.0U ug/l
Vinyl Chloride	1.0U ug/l	1,3-Dichloropropane	1.0U ug/l
Methylene Chloride	1.0J* ug/l	Cis-1,2-Dichloroethene	1.0U ug/l
Carbon Disulfide	1.0U ug/l	trans-1,2-Dichloroethene	1.0U ug/l
Bromoform	1.0U ug/l	1,3-Dichlorobenzene	0.085J* ug/l
Bromodichloromethane	1.0U ug/l	1,1-Dichloropropene	1.0U ug/l
1,1-Dichloroethane	1.0U ug/l	2-Hexanone	40.00J ug/l
1,1-Dichloroethene	1.0U ug/l	2,2-Dichloropropane	1.0U ug/l
Trichlorofluoromethane	1.0U ug/l	Ethane, 1,1,1,2-Tetrachloro-	1.0U ug/l
Methane, Dichlorodifluoro-	1.00J ug/l	Total Xylenes	1.0U ug/l
1,2-Dichloropropane	1.0U ug/l	m p-XYLENE	1.0U ug/l
2-Butanone	20.0U ug/l	cis-1,3-Dichloropropene	1.0U ug/l
1,1,2-Trichloroethane	1.0U ug/l	trans-1,3-Dichloropropene	1.0U ug/l
Ethene, trichloro-	1.0U ug/l	p-BROMOFLUOROBENZENE	95 % Recov
ETHANE, 1,1,2,2-TETRACHLORO-	1.0U ug/l	FLUOROBENZENE	100 % Recov
1,2,3-Trichlorobenzene	0.66J* ug/l	TOLUENE-D8	101 % Recov
Hexachlorobutadiene	0.52J* ug/l	1,2-DICHLOROBENZENE-D4	99 % Recov
Naphthalene	0.47J* ug/l	d4-1,2-Dichloroethane	99 % Recov
o-XYLENE	1.0U ug/l		
2-Chlorotoluene	1.0U ug/l		
1,2-Dichlorobenzene	0.13J* ug/l		
1,2,4-Trimethylbenzene	0.090J* ug/l		
1,2-Dibromo-3-chloropropane	1.0U ug/l		
1,2,3-Trichloropropane	1.0U ug/l		
Tert-Butylbenzene	0.078J* ug/l		
Isopropylbenzene (Cume+)	1.0U ug/l		
p-Isopropyltoluene	1.0U ug/l		
Ethylbenzene	1.0U ug/l		
BENZENE, ETHENYL-(STYR+)	1.0U ug/l		
BENZENE, PROPYL-	1.0U ug/l		
Butylbenzene	0.15J* ug/l		
4-Chlorotoluene	1.0U ug/l		
1,4-Dichlorobenzene	0.11J* ug/l		
1,2-Dibromoethane (EDB)	1.0U ug/l		
1,2-Dichloroethane	1.0U ug/l		
4-Methyl-2-Pentanone (M+	5.0U ug/l		

(Sample Complete)