PHASE II
ENVIRONMENTAL INVESTIGATION REPORT

SPEEDY'S CLEANERS

190 COURT STREET
ROCHESTER, NEW YORK

MM&A PROJECT # 938-14

PREPARED
AUGUST 31, 1993

PREPARED BY

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Project Manager

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1425 Mt. Read Blvd.
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PHASE II ENVIRONMENTAL AUDIT REPORT

Client:	Speedy Cleaners
Contact:	Mr. Tom McEwen
Project:	Sampling of soil and water beneath concrete slab floors
Location:	190 Court Street Rochester, New York
Project Date:	August 5, 1993
Report Date:	August 31, 1993
Project No.:	938-14
Technician:	Richard Bianchi
Author:	William Sandvik

Purpose

This site, currently a dry cleaners, is in the process of being acquired by the City of Rochester for future redevelopment. As part of the acquisition process, environmental investigations were performed by LaBella Associates, (representing the City) [1,2,3,4,5,6].

This current sampling program was implemented to more accurately define the extent, nature and source of any contamination present on the site.

Specific aspects of the sampling program were verbally requested by Steven Campbell of LaBella Associates, including minimum analysis as follows:

- o EPA 8240 Volatile Organics Analysis
- o Ignitablity
- o TCLP (Toxicity Characteristic Leaching Procedure) analysis for Metals and Volatiles.

In addition, LaBella Associates identified the desired minimum number of sample locations and the specific minimum analytical parameters for each sample location, from those listed above. Beyond these minimum analyses, MM&A requested a library search for each 8240 analysis. A library search is an identification of all peaks found during the analysis. The search encompasses a library of approximately 40,000 organic compounds. This request was made to assure that the components of stoddard solvent and any other possible contaminants (either resulting from dry cleaning operations or other sources) would be identified.

Precise sample locations and sample depths were determined jointly by MM&A and LaBella's on-site representative (Dennis Peck) based on field conditions.

Sample locations are plotted on the attached floor plan of the site.

Methods

A concrete drill was used to drill 4" diameter holes through the concrete slab floor to soil. Care was taken at each site to prevent contamination of the bore hole with materials from the surface of the floor. Where brick and debris were encountered below the slab, the decision was made to move to an adjoining area and drill a new hole.

Sampling was conducted using a stainless steel soil auger to collect soil samples at a depth ranging from approximately 1' to 4' below the surface. Samples were collected and placed in glass sample bottles with teflon caps, provided by the Eagle-Pitcher company and certified as pre-cleaned according to EPA recommendations. All samples were labelled to represent sample location, date and time.

Immediately upon collection, samples were placed in a refrigerated cooler and maintained under refrigeration and Chain-of-Custody procedures until analysis. Analysis of samples was performed by Laboratory Resources, Inc. an independent laboratory, Certified by New York State to conduct the required analytical procedures.

Field cleaning of the soil auger was performed following each sample collection. The procedure for this cleaning was as follows:

- Soap and water rinse to remove gross particulate matter.
- Tap water rinse.
- Dilute nitric acid rinse to remove trace metal contamination.
- Distilled water rinse.
- Methanol rinse to remove trace organics.
- Final distilled water rinse.

All cleaning solutions were captured and properly disposed of.

Sampling was conducted by Mr. Richard Bianchi, an Environmental Field Supervisor with Monroe Monitoring & Analysis, Inc. Mr. Bianchi is experienced in the collection of environmental samples for analysis of trace concentrations of organic and inorganic chemicals, and has received 40 hours of health & safety training and 8 hours of supervisor training as required by OSHA for hazardous waste site workers and investigation personnel.

Sample locations were screened by a Photo-ionization detector during the sampling process. Results of screening are documented on the attached data sheets (Appendix A).

Results

The analytical report for the above soil samples is attached to this report and is found in Appendix B.

Trace levels (micrograms/kilogram) of organics were found in several samples, with significant levels (milligrams /kilogram) found in three samples. These three samples are roughly in a line, with the highest concentrations at the Southwest corner of the building and the lowest concentrations (of the three) at the North center of the building.

Matrix interference (interference resulting from other compounds) required the laboratory to perform dilutions of several samples prior to analysis. As a result, the detection limit (minimum detection level) for these samples is higher than would otherwise be possible.

Conclusions

1. Contamination detected was limited to the center foundation area (approximately 45'x40' area). The contaminants identified by this sampling program are consistent with the constituents of gasoline, with three exceptions, Tetrachloroethene, ~~also known~~ as ~~Tetrachloroethylene and Perchloroethylene or "Perc"~~, Methylene Chloride and Chloroform.

   With the exception of Tetrachloroethene, these compounds are inconsistent with dry cleaning operations [1,7].

   Tetrachloroethene was found in only one sample, at a level of 23µg/Kg. This low level of Tetrachloroethene may be the result of airborne contamination during sample collection, since the odor of Tetrachloroethene is noticeable in the air within the building.

In addition to gasoline constituents, samples in the same areas contained significant amounts of Methylene Chloride, an industrial solvent, not known for use as a dry cleaning agent [8,9,10]. This may be a result of laboratory contamination, however an alternate source is proposed in conclusion 3, below.

2. Groundwater sampling conducted by LaBella Associates upgradient (Southwest) of the site identified the same primary contaminants (Toluene, Xylenes and Ethylbenzene). as found in this study [4,5]. LaBella concluded that the possible source of these contaminants was a former gasoline station near the corner of Court and Stone Streets [4].

   Based on this study, it appears likely that these same contaminants have been carried from the site of this gasoline station (South and West of Speedy's) to 190 Court Street by groundwater (determined by LaBella to flow to the Northeast in this area [4]), and/or the apparent abandoned sewer described in conclusion 4, below.

3. The corner of Stone and Court streets formerly housed the Sargent and Greenleaf Lock Factory [1,2,3]. A manufacturing facility of this nature would undoubtedly use significant quantities of degreasing chemicals such as Methylene Chloride and Tetrachloroethene, both of which were found in the various samples collected by MM&A and LaBella.

4. During drilling in the center of the basement, what appeared to be an abandoned brick lined sanitary sewer was intercepted. Upon removing the drill bit, water rapidly filled the hole as quickly as it could be drawn off by a shop vac. It was noted by all present that the water had a distinct septic odor.

   It is possible that this sewer has acted as a conduit to deliver contaminants to this area of the basement from a source beyond the property boundaries. It should be noted that this immediate area was found to contain significant levels of the full range of contaminants detected by LaBella and MM&A sampling. A water sample collected directly from this assumed sewer was found upon analysis to contain Chloroform and Xylenes, by the 8240 analysis and a range of gasoline components in significant concentrations which were found by the library search. No dry cleaning components were detected.

5. Results of soil sampling in Speedy's basement performed by LaBella, as reported in a letter report [6] to the City (dated 7/15/93) describe analytical results reported by the laboratory in micrograms per kilogram (µg/Kg) as parts per billion (PPB). While these terms can be loosely interchanged, % moisture must be taken into account. The laboratory report attached to the letter does not indicate % moisture found, therefore, PPB values cannot be acurately derived and may vary significantly from the PPB values reported.

   This correction would not change the overall conclusion of the report, however, it is worth noting. It should also be noted that the stated guidelines in the letter report are in fact guidance values which are subject to negotiation. As reported by LaBella [5], NYSDEC typically determines the need for remedial measures by the appearance of a visible sheen; a condition not observed by MM&A or reported by LaBella during any of the sampling episodes.

6. The contaminants identified by MM&A, included up to 9700 µg/Kg of Methylene Chloride, 23 µg/Kg of Tetrachloroethene (Perc) in soil samples and 950 µg/L of Chloroform in one water sample. No other chlorinated compounds were detected. Along with these chlorinated compounds, numerous gasoline constituents were found in these same sample locations in ranges up to hundreds of mg/Kg. These contaminants are all highly volatile materials which should respond well to soil venting techniques.

7. Based on the TCLP data generated by this sampling program, excavated soil from this site would be characterized as non-hazardous, and therefore, excavation for the sole purpose of remediation is not recommeded. The volatile nature of the materials found suggests that the process of demolition and excavation may enhance the release these materials (which are currently trapped beneath concrete slabs) from the soil, reducing levels further, possibly below other established guidelines.

8. Based on the results of this investigation and related work conducted by LaBella Associates, it is the contention of Monroe Monitoring & Analysis that the potentially responsible parties for the identified contamination are the current and past owners of the properties at 160-178 Court Street (former gasoline station, auto dealership and lock company), and/or 181 and 195 Court Street (gasoline stations), as identified by LaBella Associates and MM&A Phase I studies of the area [1,2].

Recommendations

1. The off-site source(s) of the contamination detected by this sampling program should be fully determined and remediated to eliminate any potential of a continuing release of contaminants.

2. A soil venting program should be implemented at 190 Court Street, once demolition of the current structure has been completed.

REFERENCES

1. Phase I Environmental Audit Report for 190 Court Street, prepared by Monroe Monitoring & Analysis, Inc. (March 1992)

2. Phase I Environmental Site Assessment for Broad/Court/Clinton/Stone Streets, prepared by LaBella Associates, P.C. (December 1990)

3. Facility Assessment & Documentation Review for Court Street between South Avenue and Stone Street, prepared by LaBella Associates, P.C. (July 1993)

4. Phase II Preliminary Site Characterization Report for Stone/Court/Clinton/Broad Streets, prepared by LaBella Associates, P.C. (April 1992)

5. Phase II Site Characterization Report for Court Street between South Avenue and Stone Street, prepared by LaBella Associates, P.C. (September 1992)

6. Letter report from Osterberg (LaBella) to Hubbard (City Of Rochester) dated July 15, 1993, RE: Site Characterization of Speedy's Cleaners.

7. Components of Stoddard Solvent - Personal communication with Tracy Hurtz of Laboratory Resources, Inc.

8. Hazardous Materials Toxicology, Sullivan and Krieger, 1992.

9. Hawley's Condensed Chemical Dictionary, Sax and Lewis, 1987.

10. Hazardous Substance Fact Sheet - Methylene Chloride, New Jersey Department of Health, 1987.

Project No. 938-14
Author: William Sandvik

APPENDIX A

PHOTO-IONIZATION DETECTOR

READINGS

Monroe
Monitoring
& Analysis, Inc.

DIRECT READING INSTRUMENTS
DATA SHEETS

CLIENT: Speedy Cleaners
LOCATION: 190 Court Street, Roch., N.Y.
DATE: 8-5-93

TIME	LOCATION	ppm OVM	ppm HNu	H2S	O2	LEL	DETECTOR TUBES	OTHER Peaks	
0840	Outside - Ambient	1-1.5						–	
0841	Main Entrance - Ambient	7-8						–	
0843	1ST Floor - Boiler Rm.	2.3-2.6						–	
0846	Ground level - Boiler Rm	3.7-4.6						–	
0903	Soil Gas - BR-1 - hole #1	10.5						13.5	
0912	" " - " " hole #2	Background						4-6	
0940	Basement - Ambient	2.5						–	
0950	Soil Screen - BS-2	25-40						63	
0954	Soil Screen - BS-2	300						314	1' depth
1045	Ambient - Basement	5-6						–	
1100	Soil gas Sceen BS-3		90-100					100	
1103	" " " "		75						
1108	" " " "		190						
1116	Soil Gas screen BS-4		Background						

WEATHER A.M. 63°F Partly Cloudy - low humidity
P.M.

COMMENTS:
OVM malfunctioned - Began HNu Monitoring at ≈ 1100

1425 Mt. Read Blvd. • Rochester, NY 14606 • (716) 458-8920 • Fax (716) 458-2168

Monroe
Monitoring
& Analysis, Inc.

DIRECT READING INSTRUMENTS
DATA SHEETS

CLIENT : Speedy Cleaners
LOCATION : 190 Court St., Roch., N.Y.
DATE : 8-5-93

TIME	LOCATION		ppm HNu	H2S	O2	LEL	DETECTOR TUBES	OTHER	
1119	Soil Gas Screen BS-4		Background						
1135	Soil Gas - B-2A area		50					–	1' depth
1200	" "		Background						2' depth
1325	Soil Gas - B-2B area		30						1' depth
1330	Soil Screen - B-2B area		12						2' depth

WEATHER A.M.
P.M. 76°F Mostly Sunny - moderate humidity.

COMMENTS:

1425 Mt. Read Blvd. • Rochester, NY 14606 • (716) 458-8920 • Fax (716) 458-2168

CALIBRATION

DIRECT READING INSTRUMENTS

INSTRUMENT 1

PRE-SAMPLING CALIBRATION

1. INSTRUMENT (TYPE,MFG, MODEL NO.,SN): Thermo Environmental OVM 580B /
2. LOCATION/T&BP: MM+A 1425 Mt. Read Rd.
3. CALIBRATION SOURCE: 98ppm Isobutylene
4. RESULTS: 103 ppm
5. INITIALS: RTB
6. DATE/TIME: 8-5-93 / 0800

POST-SAMPLING CALIBRATION

35. CALIBRATION SOURCE:
36. RESULTS:
37. LOCATION:
38. INITIALS:
39. DATE/TIME:

INSTRUMENT 2

PRE-SAMPLING CALIBRATION

1. INSTRUMENT (TYPE,MFG, MODEL NO.,SN):
2. LOCATION/T&BP:
3. CALIBRATION SOURCE:
4. RESULTS:
5. INITIALS:
6. DATE/TIME:

POST-SAMPLING CALIBRATION

35. CALIBRATION SOURCE:
36. RESULTS:
37. LOCATION:
38. INITIALS:
39. DATE/TIME:

INSTRUMENT 3

PRE-SAMPLING CALIBRATION

1. INSTRUMENT (TYPE,MFG, MODEL NO.,SN):
2. LOCATION/T&BP:
3. CALIBRATION SOURCE:
4. RESULTS:
5. INITIALS:
6. DATE/TIME:

POST-SAMPLING CALIBRATION

35. CALIBRATION SOURCE:
36. RESULTS:
37. LOCATION:
38. INITIALS:
39. DATE/TIME:

APPENDIX B

ANALYTICAL DATA

Laboratory Resources, Inc.
New Jersey Division

100 Hollister Road
Telephone: 201-288-3700 Fax: 201-288-5311

ANALYTICAL DATA REPORT

Report Number: T308118
Project: Speedy Cleaners

prepared for:

Monroe Monitoring & Analysis,
1425 Mt Reid Blvd

Rochester, NY 14606

Attention: Mr William Sandvik

Receive Date: 08/06/93
Report Date: 08/31/93

Mohammad R. Amirsoleymani
Quality Assurance Manager

Paul Ioannides
General Manager

NJDEPE Certification No. 02046
PADER Certification No. 68-420
NYDOH/ASP Certification No. 11321

U: B:1

ORGANIC NON-CONFORMANCE SUMMARY

GC/MS VOLATILES

1. The quantitation limits are elevated due to matrix interference for samples (T308118-02 and 06).

2. The quantitation limits are elevated due to the dilution required for sample (T308118-01).

ORGANIC FLAGS USED IN RESULT SHEET

B = Found in Method blank and sample
J = Under Method Detection limit
E = Exceeds Calibration Range
D = Dilution performed
U = Analyzed for but not detected

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.: DC-1

Lab Name: LRI

Lab Sample ID: T3NC110_5

Lab File ID: >F6492

Matrix: [soil/water] SOIL

Sample wt/vol: 5.0 [g/mL] G

Run Type: VOA-8240

Level: [low/med] LOW

Date Received: 08/06/93

% Moisture: 23.0

Date Analyzed : 08/12/93

GC Column: PACk ID: 2.0 (mm)

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
110-75-8	2-Chloroethyl vinyl ether	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
591-78-6	2-Hexanone	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
127-18-4	Tetrachloroethene	23	
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Lab Name: LRI

Lab Sample ID: T308118-5

Matrix: [soil/water] SOIL

Sample wt/vol: 5.0 [g/mL] G

Level: [low/med] LOW

% Moisture: 23.0

GC Column: PACK ID: 2.0 (mm)

Client Sample ID No.: DC-1

Lab File ID: >F6492

Run Type: VOA-8240

Date Received: 08/06/93

Date Analyzed : 08/12/93

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
108-38-3	meta-Xylene	7	U
95-47-6	ortho- + para-Xylenes	7	U

SADF: 1.30

Total Hit(s): 2

BORATORY
SOURCES INC.

LAB JOB NO. T308118

ANALYTICAL RESULTS: TOXICITY CHARACTERISTIC LEACHATE PROCEDURE

ab. Sample ID: T308118-05 TCLP
ient Designation: DC-1
ta File: >E2590 QC Blank Data File: >E2579
lculation Factor: 20.00
mple Loaded (mL): .25

tal Hit(s): 0

PARAMETER	Results (MG/L)	Regulatory Limits (MG/L)
inyl Chloride	< .200	0.20
,1-Dichloroethene	< .100	0.70
hloroform	< .100	6.00
,2-Dichloroethane	< .100	0.50
arbon Tetrachloride	< .100	0.50
richloroethene	< .100	0.50
enzene	< .100	0.50
-Butanone	< .200	200.00
etrachloroethene	< .100	0.70
hlorobenzene	< .100	100.00
thylbenzene	< .100	
eta + para-Xylenes	< .100	
rtho-Xylene	< .100	
oluene	< .100	

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number : T308118-5
Client ID Number : DC-1
Data File : >F6492
Calculation Factor: 1.30
Matrix : Soil
Fraction : VOA

Total Hit(s): 2

	CAS Number	Compound Name	RT.	Est. Concenc. UG/KG
1	593759	Methane, isocyano- (9CI)	3.88	17
2		Unknown	28.40	18

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.: DC-2

Lab Name: LRI

Lab Sample ID: T308118-06

Lab File ID: >H1596

Matrix: [soil/water] SOIL

Sample wt/vol: 4.0 [g/mL] G

Run Type: VOA-8240

Level: [low/med] MED

Date Received: 08/06/93

% Moisture: 14.0

Date Analyzed : 08/19/93

GC Column: CAPI ID: 0.5 (mm)

Dilution Factor: 4.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 25.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
74-87-3	Chloromethane	5800	U
74-83-9	Bromomethane	5800	U
75-01-4	Vinyl Chloride	5800	U
75-00-3	Chloroethane	5800	U
75-09-2	Methylene Chloride	5000	
67-64-1	Acetone	5800	U
75-15-0	Carbon Disulfide	2900	U
75-35-4	1,1-Dichloroethene	2900	U
75-34-3	1,1-Dichloroethene	2900	U
156-60-5	Trans-1,2-Dichloroethene	2900	U
67-66-3	Chloroform	2900	U
107-06-2	1,2-Dichloroethane	2900	U
78-93-3	2-Butanone	5800	U
71-55-6	1,1,1-Trichloroethane	2900	U
56-23-5	Carbon Tetrachloride	2900	U
108-05-4	Vinyl Acetate	5800	U
75-27-4	Bromodichloromethane	2900	U
78-87-5	1,2-Dichloropropane	2900	U
10061-01-5	Cis-1,3-Dichloropropene	2900	U
79-01-6	Trichloroethene	2900	U
124-48-1	Chlorodibromomethane	2900	U
110-75-8	2-Chloroethyl vinyl ether	2900	U
79-00-5	1,1,2-Trichloroethane	2900	U
71-43-2	Benzene	2900	U
10061-02-6	Trans-1,3-Dichloropropene	2900	U
75-25-2	Bromoform	2900	U
591-78-6	2-Hexanone	5800	U
108-10-1	4-Methyl-2-Pentanone	5800	U
127-18-4	Tetrachloroethene	2900	U
79-34-5	1,1,2,2-Tetrachloroethane	2900	U
108-88-3	Toluene	2900	U
108-90-7	Chlorobenzene	2900	U
100-41-4	Ethylbenzene	2900	U
100-42-5	Styrene	2900	U

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.: DC-2

Lab Name: LRI

Lab Sample ID: T308118-06

Lab File ID: >H1596

Matrix: [soil/water] SOIL

Sample wt/vol: 4.0 [g/mL] G

Run Type: VOA-8240

Level: [low/med] MED

Date Received: 08/06/93

% Moisture: 14.0

Date Analyzed : 08/19/93

GC Column: CAPI ID: 0.5 (mm)

Dilution Factor: 4.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 25.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
108-38-3	meta + para-Xylenes	2900	U
95-47-6	ortho-Xylene	2900	U

Total Hit(s): 1

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number : T308118-06
Client ID Number : DC-2
Data File : >H1596
Calculation Factor: 581.40
Matrix : Soil
Fraction : VOA

Total Hit(s): 15

	CAS Number	Compound Name	RT.	Est. Concenc. UG/KG
1		Trimethyl Benzene isomer	23.25	48000
2		Unknown Alkane	23.66	48000
3		Ethyl Methyl Benzene	24.70	76000
4		Unknown	24.98	76000
5		Alkyl Benzene	25.13	52000
6		Dimethyl Ethyl Benzene isomer	25.26	56000
7		Alkyl Benzene	25.44	48000
8	99876	Benzene, 1-methyl-4-(1-methylethyl)-	25.61	93000
9		Dimethyl Ethyl Benzene isomer	25.72	52000
10		Unknown	25.92	64000
11		Unknown	26.15	58000
12		Alkyl Benzene	26.22	37000
13		Dimethyl Ethyl Benzene isomer	26.46	64000
14	488233	Benzene, 1,2,3,4-tetramethyl-	26.65	70000
15		Aromatic Hydrocarbon	26.76	54000

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Lab Name: LRI

Client Sample ID No.: BR-1

Lab Sample ID: T308118-7

Lab File ID: >F6493

Matrix: [soil/water] SOIL

Sample wt/vol: 5.0 [g/mL] G

Run Type: VOA-8240

Level: [low/med] LOW

Date Received: 08/06/93

% Moisture: 20.0

Date Analyzed : 08/12/93

GC Column: PACK ID: 2.0 (mm)

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
110-75-8	2-Chloroethyl vinyl ether	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
591-78-6	2-Hexanone	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Lab Name: LRI

Client Sample ID No.: BR-1

Lab Sample ID: T308118-7

Lab File ID: >F6493

Matrix: [soil/water] SOIL

Sample wt/vol: 5.0 [g/mL] G

Run Type: UOA-8240

Level: [low/med] LOW

Date Received: 08/06/93

% Moisture: 20.0

Date Analyzed : 08/12/93

GC Column: PACK ID: 2.0 (mm)

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
108-38-3	meta-Xylene	6	U
95-47-6	ortho- + para-Xylenes	6	U

DADF: 1.25

Total Hit(s): 1

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number : 1308118-7
Client ID Number : BR-1
Data File : >F649>
Calculation Factor: 1.25
Matrix : Soil
Fraction : VOA

Total Hit(s): 2

	CAS Number	Compound Name	RT.	Est. Concenc. UG/KG
1	593759	Methane, isocyano- (9CI)	3.97	20
2		Unknown	28.42	10

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Lab Name: LRI

Lab Sample ID: T308118-2

Matrix: [soil/water] WATER

Sample wt/vol: 0.01 [g/mL] ML

Level: [low/med] LOW

% Moisture: NA

GC Column : CAP. ID: 0.53 (mm)

Client Sample ID No.: BW-2B

Lab File ID: >H1510

Run Type: VOA-8240

Date Received: 08/06/93

Date Analyzed : 08/13/93

Dilution Factor: 500.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/L	Q
74-87-3	Chloromethane	5000	U
74-83-9	Bromomethane	5000	U
75-01-4	Vinyl Chloride	5000	U
75-00-3	Chloroethane	5000	U
75-09-2	Methylene Chloride	2500	U
67-64-1	Acetone	5000	U
75-15-0	Carbon Disulfide	2500	U
75-35-4	1,1-Dichloroethene	2500	U
75-34-3	1,1-Dichloroethane	2500	U
156-60-5	Trans-1,2-Dichloroethene	2500	U
67-66-3	Chloroform	950	J
107-06-2	1,2-Dichloroethane	2500	U
78-93-3	2-Butanone	5000	U
71-55-6	1,1,1-Trichloroethane	2500	U
56-23-5	Carbon Tetrachloride	2500	U
108-05-4	Vinyl Acetate	5000	U
75-27-4	Bromodichloromethane	2500	U
78-87-5	1,2-Dichloropropane	2500	U
10061-01-5	Cis-1,3-Dichloropropene	2500	U
79-01-6	Trichloroethene	2500	U
124-48-1	Chlorodibromomethane	2500	U
110-75-8	2-Chloroethyl vinyl ether	2500	U
79-00-5	1,1,2-Trichloroethane	2500	U
71-43-2	Benzene	2500	U
10061-02-6	Trans-1,3-Dichloropropene	2500	U
75-25-2	Bromoform	5000	U
591-78-6	2-Hexanone	5000	U
108-10-1	4-Methyl-2-Pentanone	2500	U
127-18-4	Tetrachloroethene	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	2500	U
108-88-3	Toluene	2500	U
108-90-7	Chlorobenzene	2500	U
100-41-4	Ethylbenzene	2500	U
100-42-5	Styrene	2500	U

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.: BW-28

Lab Name: LRI

Lab Sample ID: T308118-2

Matrix: [soil/water] WATER

Lab File ID: >H1510

Sample wt/vol: 0.01 [g/mL] ML

Run Type: VOA-8240

Level: [low/med] LOW

Date Received: 08/06/93

% Moisture: NA

Date Analyzed : 08/13/93

GC Column : CAP. ID: 0.53 (mm)

Dilution Factor: 500.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/L	Q
108-38-3	meta + para-Xylenes	1300	J
95-47-6	ortho-Xylene	2200	J

Total Hit(s): 3

SADF: 500.00

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number . : T308118-2
Client ID Number : BW-2B
Data File : >H1510
Calculation Factor: 500.00
Matrix : Water
Fraction : VOA

Total Hit(s): 15

	CAS Number	Compound Name	RT.	Est. Concenc. UG/ L
1		Unknown Alkane	19.40	27000
2		Unknown Alkane	20.93	18000
3		Unknown Alkane	21.26	16000
4		Unknown Alkane	22.20	16000
5		Unknown Alkane	22.65	21000
6		Trimethyl Benzene isomer	23.24	30000
7		Unknown Alkane	23.65	85000
8		Trimethyl Benzene isomer	24.02	38000
9		Unknown Alkane	24.21	30000
10		Alkyl Benzene	24.69	20000
11		Unknown Alkane	24.95	24000
12		Alkyl Benzene	25.12	17000
13		Dimethyl Ethyl Benzene isomer	25.23	12000
14	1074551	Benzene, 1-methyl-4-propyl-	25.40	8500
15		Unknown Alkane	25.55	31000

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

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ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.: BS-2B

Lab Name: LRI

Lab Sample ID: T308118-01

Matrix: [soil/water] SOIL

Sample wt/vol: 4.0 [g/mL] G

Level: [low/med] MED

% Moisture: 18.0

GC Column: CAPI ID: 0.5 (mm)

Soil Extract Volume: 10000 (uL)

Lab File ID: >H1595

Run Type: VOA-8240

Date Received: 08/06/93

Date Analyzed : 08/19/93

Dilution Factor: 10.0

Soil Aliquot Volume: 10.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
74-87-3	Chloromethane	15000	U
74-83-9	Bromomethane	15000	U
75-01-4	Vinyl Chloride	15000	U
75-00-3	Chloroethane	15000	U
75-09-2	Methylene Chloride	9700	
67-64-1	Acetone	15000	U
75-15-0	Carbon Disulfide	7600	U
75-35-4	1,1-Dichloroethene	7600	U
75-34-3	1,1-Dichloroethane	7600	U
156-60-5	Trans-1,2-Dichloroethene	7600	U
67-66-3	Chloroform	7600	U
107-06-2	1,2-Dichloroethane	7600	U
78-93-3	2-Butanone	15000	U
71-55-6	1,1,1-Trichloroethane	7600	U
56-23-5	Carbon Tetrachloride	7600	U
108-05-4	Vinyl Acetate	15000	U
75-27-4	Bromodichloromethane	7600	U
78-87-5	1,2-Dichloropropane	7600	U
10061-01-5	Cis-1,3-Dichloropropene	7600	U
79-01-6	Trichloroethene	7600	U
124-48-1	Chlorodibromomethane	7600	U
110-75-8	2-Chloroethyl vinyl ether	7600	U
79-00-5	1,1,2-Trichloroethane	7600	U
71-43-2	Benzene	7600	U
10061-02-6	Trans-1,3-Dichloropropene	7600	U
75-25-2	Bromoform	15000	U
591-78-6	2-Hexanone	15000	U
108-10-1	4-Methyl-2-Pentanone	7600	U
127-18-4	Tetrachloroethene	7600	U
79-34-5	1,1,2,2-Tetrachloroethene	3200	J
108-88-3	Toluene	7600	U
108-90-7	Chlorobenzene	9200	
100-41-4	Ethylbenzene	7600	U
100-42-5	Styrene		

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.: BS-2B

Lab Name: LRI

Lab Sample ID: T308118-01

Matrix: [soil/water] SOIL

Lab File ID: >H1595

Sample wt/vol: 4.0 [g/mL] G

Run Type: VOA-8240

Level: [low/med] MED

Date Received: 08/06/93

% Moisture: 18.0

Date Analyzed : 08/19/93

GC Column: CAPI ID: 0.5 (mm)

Dilution Factor: 10.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 10.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
108-38-3	meta + para-Xylenes	15000	
95-47-6	ortho-Xylene	28000	

Total Hit(s): 5

LABORATORY
RESOURCES INC.

LAB JOB NO. T308118

ANALYTICAL RESULTS: TOXICITY CHARACTERISTIC LEACHATE PROCEDURE

Lab. Sample ID: T308118-01 TCLP
Client Designation: BS-2B
Data File: >E2589
Calculation Factor: 20.00 QC Blank Data File: >E2579
Sample Loaded (mL): .25

Total Hit(s): 4

PARAMETER	Results (MG/L)		Regulatory Limits (MG/L)
Vinyl Chloride	< .200		0.20
1,1-Dichloroethene	< .100		0.70
Chloroform	< .100		6.00
1,2-Dichloroethane	< .100		0.50
Carbon Tetrachloride	< .100		0.50
Trichloroethene	< .100		0.50
Benzene	< .100		0.50
2-Butanone	< .200		200.00
Tetrachloroethene	< .100		0.70
Chlorobenzene	< .100		100.00
Ethylbenzene	.093	J	
meta + para-Xylenes	.390		
ortho-Xylene	.380		
Toluene	.120		

METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Order No: T308118
LRI Sample No: 1

Client: Monroe Monitoring & Analysis,
Location: NJ
Project: Speedy Cleaners
Sample Description: BS-2B

Date Collected: 08/05/93
Date Received: 08/06/93

Matrix: Soil
Percent Moisture: 18.3%

Parameter	Result	QL	Units	Started Date	Started By	Completed Date	Completed By	Dilution
Mercury by Cold Vapor by 7470, TCLP								
Mercury	0.0050 U	0.0050	mg/L	08/19/93	BD	08/20/93	BD	
Metals by ICP by 6010, TCLP								
Arsenic	1.0 U	1	mg/L	08/18/93	JB	08/19/93	MP	
Barium	1.0 U	1	mg/L	08/18/93	JB	08/19/93	MP	
Cadmium	0.050 U	.05	mg/L	08/18/93	JB	08/19/93	MP	
Chromium	0.10 U	.1	mg/L	08/18/93	JB	08/19/93	MP	
Lead	1.7	.3	mg/L	08/18/93	JB	08/19/93	MP	
Selenium	0.50 U	.5	mg/L	08/18/93	JB	08/19/93	MP	
Silver	0.050 U	.05	mg/L	08/18/93	JB	08/19/93	MP	

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T308118
LRI Sample No: 1

Customer: Monroe Monitoring & Analysis,
Location: NJ
Project: Speedy Cleaners
Sample Description: BS-2B

Date Collected: 08/05/93
Date Received: 08/06/93

Matrix: Soil
Percent Moisture: 18.3%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	Started By	Completed Date	Completed By	Dilution
Ignitability by SW-846 1010								
Ignitability (Flashpoint)	145	70	°F			08/23/93	JC	

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number : T308118-01
Client ID Number : BS-2B
Data File : >H1595
Calculation Factor: 1524.39
Matrix : Soil
Fraction : VOA

Total Hit(s): 15

	CAS Number	Compound Name	RT.	Est. Concenc. UG/KG
1		Unknown Alkane	19.39	180000
2		Unknown cycloalkane	20.73	120000
3		Unknown	21.27	90000
4		Unknown cycloalkane	21.95	99000
5		Unknown Alkane	22.19	100000
6		Unknown	22.66	120000
7		Ethyl Methyl Benzene	23.01	130000
8		Alkyl Benzene	23.25	150000
9		Unknown Alkane	23.64	300000
10		Trimethyl Benzene isomer	24.01	290000
11	98828	Benzene, (1-methylethyl)-	24.68	150000
12		Aromatic Hydrocarbon	24.96	88000
13		Alkyl Benzene	25.12	120000
14		Alkyl Benzene	25.22	110000
15		Dimethyl Ethyl Benzene isomer	25.57	120000

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.: BS-3

Lab Name: LRI

Lab Sample ID: T308118-03

Matrix: [soil/water] SOIL

Sample wt/vol: 4.0 [g/mL] G

Level: [low/med] MED

% Moisture: 13.0

GC Column: CAPI ID: 0.5 (mm)

Soil Extract Volume: 10000 (uL)

Lab File ID: >H1601

Run Type: VOA-8240

Date Received: 08/06/93

Date Analyzed : 08/19/93

Dilution Factor: 10.0

Soil Aliquot Volume: 10.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
74-87-3	Chloromethane	14000	U
74-83-9	Bromomethane	14000	U
75-01-4	Vinyl Chloride	14000	U
75-00-3	Chloroethene	14000	U
75-09-2	Methylene Chloride	7800	
67-64-1	Acetone	14000	U
75-15-0	Carbon Disulfide	7200	U
75-35-4	1,1-Dichloroethene	7200	U
75-34-3	1,1-Dichloroethane	7200	U
156-60-5	Trans-1,2-Dichloroethene	7200	U
67-66-3	Chloroform	7200	U
107-06-2	1,2-Dichloroethane	7200	U
78-93-3	2-Butanone	14000	U
71-55-6	1,1,1-Trichloroethane	7200	U
56-23-5	Carbon Tetrachloride	7200	U
108-05-4	Vinyl Acetate	14000	U
75-27-4	Bromodichloromethene	7200	U
78-87-5	1,2-Dichloropropane	7200	U
10061-01-5	Cis-1,3-Dichloropropene	7200	U
79-01-6	Trichloroethene	7200	U
124-48-1	Chlorodibromomethane	7200	U
110-75-8	2-Chloroethyl vinyl ether	7200	U
79-00-5	1,1,2-Trichloroethane	7200	U
71-43-2	Benzene	7200	U
10061-02-6	Trans-1,3-Dichloropropene	7200	U
75-25-2	Bromoform	14000	U
591-78-6	2-Hexanone	14000	U
108-10-1	4-Methyl-2-Pentenone	7200	U
127-18-4	Tetrachloroethene	7200	U
79-34-5	1,1,2,2-Tetrechloroethane	7200	U
108-88-3	Toluene	7200	U
108-90-7	Chlorobenzene	8800	
100-41-4	Ethylbenzene	7200	U
100-42-5	Styrene		

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.: BS-3

Lab Name: LRI

Lab Sample ID: T308118-03

Lab File ID: >H1601

Matrix: [soil/water] SOIL

Run Type: VOA-8240

Sample wt/vol: 4.0 [g/mL] G

Date Received: 08/06/93

Level: [low/med] MED

Date Analyzed : 08/19/93

% Moisture: 13.0

Dilution Factor: 10.0

GC Column: CAPI ID: 0.5 (mm)

Soil Aliquot Volume: 10.0(uL)

Soil Extract Volume: 10000 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
108-38-3	meta + para-Xylenes	17000	
95-47-6	ortho-Xylene	28000	

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T308118
LRI Sample No: 3

Customer: Monroe Monitoring & Analysis,
Location: NJ
Project: Speedy Cleaners
Sample Description: BS-3

Date Collected: 08/05/93
Date Received: 08/06/93

Matrix: Soil
Percent Moisture: 11.4%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	Started By	Completed Date	Completed By	Dilution
Ignitability by SW-846 1010								
Ignitability (Flashpoint)	115	70	°F			08/23/93	JC	

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number : T308118-03
Client ID Number : BS-3
Data File : >H1601
Calculation Factor: 1436.78
Matrix : Soil
Fraction : VOA

Total Hit(s): 15

	CAS Number	Compound Name	RT.	Est. Concenc. UG/KG
1		Unknown Alkane	19.39	200000
2		Unknown cycloalkane	20.76	140000
3		Unknown	21.28	100000
4		Unknown	21.93	120000
5		Unknown Alkane	22.21	140000
6		Ethyl Methyl Benzene	23.03	130000
7		Trimethyl Benzene isomer	23.27	170000
8		Unknown Alkane	23.68	340000
9		Trimethyl Benzene isomer	24.03	330000
10		Dimethyl Ethyl Benzene isomer	24.57	110000
11		Ethyl Methyl Benzene	24.70	170000
12		Aromatic Hydrocarbon	24.98	99000
13	1074437	Benzene, 1-methyl-3-propyl-	25.14	140000
14		Dimethyl Ethyl Benzene isomer	25.25	140000
15		Dimethyl Ethyl Benzene isomer	25.57	140000

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Lab Name: LRI

Lab Sample ID: T308118-4

Matrix: [soil/water] SOIL

Sample wt/vol: 5.0 [g/mL] G

Level: [low/med] LOW

% Moisture: 11.0

GC Column: PACK ID: 2.0 (mm)

Client Sample ID No.: BS-4

Lab File ID: >F6491

Run Type: VOA-8240

Date Received: 08/06/93

Date Analyzed : 08/12/93

Dilution Factor: 1.0

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
110-75-8	2-Chloroethyl vinyl ether	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
591-78-6	2-Hexanone	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Client Sample ID No.: BS-4

Lab Name: LRI

Lab Sample ID: T308118-4

Lab File ID: >F6491

Matrix: [soil/water] SOIL

Run Type: VOA-8240

Sample wt/vol: 5.0 [g/mL] G

Date Received: 08/06/93

Level: [low/med] LOW

Date Analyzed : 08/12/93

% Moisture: 11.0

Dilution Factor: 1.0

GC Column: PACK ID: 2.0 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
108-38-3	meta-Xylene	6	U
95-47-6	ortho- + para-Xylenes	6	U

Total Hit(s): 1

SADF: 1.12

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.
Division: New Jersey
LRI Report No: T308118
LRI Sample No: 4

Customer: Monroe Monitoring & Analysis,
Location: NJ
Project: Speedy Cleaners
Sample Description: BS-4

Date Collected: 08/05/93
Date Received: 08/06/93

Matrix: Soil
Percent Moisture: 11.3%
Units in Dry Weight

Parameter	Result	QL	Units	Started Date	Started By	Completed Date	Completed By	Dilution
Ignitability by SW-846 1010								
Ignitability (Flashpoint)	>160	70	°F			08/23/93	JC	

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number : T308118-4
Client ID Number : 85-4
Data File : >F6491
Calculation Factor: 1.12
Matrix : Soil
Fraction : VOA

Total Hit(s): 2

	CAS Number	Compound Name	RT.	Est. Concenc. UG/KG
1	593759	Methane, isocyano- (9CI)	3.88	15
2		Unknown	28.40	8

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

Lab Name: LRI

Lab Sample ID: VBLK-QH0813

Matrix: [soil/water] WATER

Sample wt/vol: 5.0 [g/mL] ML

Level: [low/med] LOW

% Moisture: NA

GC Column : CAP. ID: 0.53 (mm)

METHOD BLANK

VBLK-QH0813

Lab File ID: >H1506

Run Type: VOA-8240

Date Received:

Date Analyzed : 08/13/93

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	Cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

METHOD BLANK

Lab Name: LRI

Lab Sample ID: VBLK-QH0813 | VBLK-QH0813

Matrix: [soil/water] WATER Lab File ID: >H1506

Sample wt/vol: 5.0 [g/mL] ML Run Type: VOA-8240

Level: [low/med] LOW Date Received:

% Moisture: NA Date Analyzed : 08/13/93

GC Column : CAP. ID: 0.53 (mm) Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/L	Q
108-38-3	meta + para-Xylenes	5	U
95-47-6	ortho-Xylene	5	U

DADF: 1.00 Total Hit(s): 1

LABORATORY
RESOURCES INC.

ANALYTICAL REPORT FOR BLANK

ANALYTICAL RESULTS: TOXICITY CHARACTERISTIC LEACHATE PROCEDURE

Lab. Sample ID : VBLK-QE0821
Data File : >E2579
Calculation Factor: 1.000000
Sample Loaded (mL): 5.000000

PARAMETER	RESULTS MG/ L	QUANTITATION LIMIT MG/ L
Vinyl Chloride	ND	.010
1,1-Dichloroethene	ND	.005
Chloroform	ND	.005
1,2-Dichloroethane	ND	.005
Carbon Tetrachloride	ND	.005
Trichloroethene	ND	.005
Benzene	ND	.005
2-Butanone	ND	.010
Tetrachloroethene	ND	.005
Chlorobenzene	ND	.005
Ethylbenzene	ND	.005
meta + para-Xylenes	ND	.005
ortho-Xylene	ND	.005
Toluene	ND	.005

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

METHOD BLANK

Lab Name: LRI

Lab Sample ID: VBLK-QH0819 | VBLK-QH0819

Matrix: [soil/water] SOIL — Lab File ID: >H1592

Sample wt/vol: 4.0 [g/mL] G — Run Type: VOA-8240

Level: [low/med] MED — Date Received:

% Moisture: NA — Date Analyzed : 08/19/93

GC Column: CAPI ID: 0.5 (mm) — Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) — Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
74-87-3	Chloromethane	1300	U
74-83-9	Bromomethane	1300	U
75-01-4	Vinyl Chloride	1300	U
75-00-3	Chloroethane	1300	U
75-09-2	Methylene Chloride	630	U
67-64-1	Acetone	1300	U
75-15-0	Carbon Disulfide	630	U
75-35-4	1,1-Dichloroethene	630	U
75-34-3	1,1-Dichloroethane	630	U
156-60-5	Trans-1,2-Dichloroethene	630	U
67-66-3	Chloroform	630	U
107-06-2	1,2-Dichloroethane	630	U
78-93-3	2-Butanone	1300	U
71-55-6	1,1,1-Trichloroethane	630	U
56-23-5	Carbon Tetrachloride	630	U
108-05-4	Vinyl Acetate	1300	U
75-27-4	Bromodichloromethane	630	U
78-87-5	1,2-Dichloropropane	630	U
10061-01-5	Cis-1,3-Dichloropropene	630	U
79-01-6	Trichloroethene	630	U
124-48-1	Chlorodibromomethane	630	U
110-75-8	2-Chloroethyl vinyl ether	630	U
79-00-5	1,1,2-Trichloroethane	630	U
71-43-2	Benzene	630	U
10061-02-6	Trans-1,3-Dichloropropene	630	U
75-25-2	Bromoform	630	U
591-78-6	2-Hexanone	1300	U
108-10-1	4-Methyl-2-Pentanone	1300	U
127-18-4	Tetrachloroethene	630	U
79-34-5	1,1,2,2-Tetrachloroethane	630	U
108-88-3	Toluene	630	U
108-90-7	Chlorobenzene	630	U
100-41-4	Ethylbenzene	630	U
100-42-5	Styrene	630	U

ORGANICS ANALYSIS DATA SHEET-VOLATILE COMPOUNDS

METHOD BLANK

Lab Name: LRI

Lab Sample ID: VBLK-QH0819 | VBLK-QH0819

Matrix: [soil/water] SOIL | Lab File ID: >H1592

Sample wt/vol: 4.0 [g/mL] G | Run Type: VOA-8240

Level: [low/med] MED | Date Received:

% Moisture: NA | Date Analyzed : 08/19/93

GC Column: CAPI ID: 0.5 (mm) | Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) | Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
108-38-3	meta + para-Xylenes	630	U
95-47-6	ortho-Xylene	630	U

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number : VBLK-QH0813
Client ID Number : VBLK-QH0813
Data File : >H1506
Calculation Factor: 1.00
Matrix : Water
Fraction : VOA

Total Hit(s): 0

CAS Number	Compound Name	RT.	Est. Concenc. UG/ L
	NO NON-TARGET COMPOUNDS FOUND		

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number : VBLK-QF0812
Client ID Number : VBLK-QF0812
Data File : >F6487
Calculation Factor: 1.00
Matrix : Soil
Fraction : VOA

Total Hit(s): 2

	CAS Number	Compound Name	RT.	Est. Concenc. UG/KG
1		Unknown	4.04	11
2		Unknown	28.42	6

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

LABORATORY
RESOURCES

ANALYTICAL RESULTS: TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID Number : VBLK-QH0819
Client ID Number : VBLK-QH0819
Data File : >H1592
Calculation Factor: 125.00
Matrix : Soil
Fraction : VOA

Total Hit(s): 1

	CAS Number	Compound Name	RT.	Est. Concenc. UG/KG
1		Unknown	29.46	750

B - Compound detected in blank
** - Nontarget compound quantitated from calibration response factor

Monroe Monitoring & Analysis, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NAME: SPEEDY CLEANERS

JOB CODE: 938-14

SAMPLER'S SIGNATURE:

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO3	H2SO4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
8/5/93	14:00	BS-2B	X		SOIL	X							1	EPA 8240 - LIBRARY SCAN
	14:05	BS-2B	X		SOIL								1	EPA TCLP - VOLATILES, METALS
	14:10	BS-2B	X		SOIL								1	IGNITABILITY
	14:12	BW-2B	X		WATER							2	2	EPA 8240 - LIBRARY SCAN
	14:14	BS-3	X		SOIL								1	EPA 8240 - LIBRARY SCAN
	14:18	BS-3	X		SOIL								1	DUPLICATE (IF NEEDED)
	14:20	BS-3	X		SOIL								1	IGNITABILITY
	14:25	BS-4	X		SOIL								1	EPA 8240 - LIBRARY SCAN
	14:27	BS-4	X		SOIL								1	DUPLICATE (IF NEEDED)
	14:36	BS-4	X		SOIL								1	IGNITABILITY
	15:00	DC-1	X		SOIL								1	EPA 8240 - LIBRARY SCAN
	15:05	DC-1	X		SOIL								1	EPA TCLP - VOLATILES ONLY
	15:30	DC-2	X		SOIL								1	EPA 8240 - LIBRARY SCAN
	15:33	DC-2	X		SOIL								1	DUPLICATE (IF NEEDED)
	16:32	TB-1	X		SOIL								1	EPA 8240 - LIBRARY SCAN
					TOTAL NUMBER OF CONTAINERS								16	

	DATE	TIME	
1. RELINQUISHED BY:	8/5/93	17:45	RECEIVED BY:
2. RELINQUISHED BY:			RECEIVED BY:
3. RELINQUISHED BY:			RECEIVED BY:

1425 Mt. Read Blvd. • Rochester NY 14606 • (716) 458-8020 • Fax (716) 458-2168

Monroe Monitoring & Analysis, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NAME: Speedy Cleaners

JOB CODE: 938-14

SAMPLER'S SIGNATURE: [signature]

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	UNPRESERVED	HNO_3	H_2SO_4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
8-5-93	1634	BR-1	X		Soil	X							1	Hold for instructions

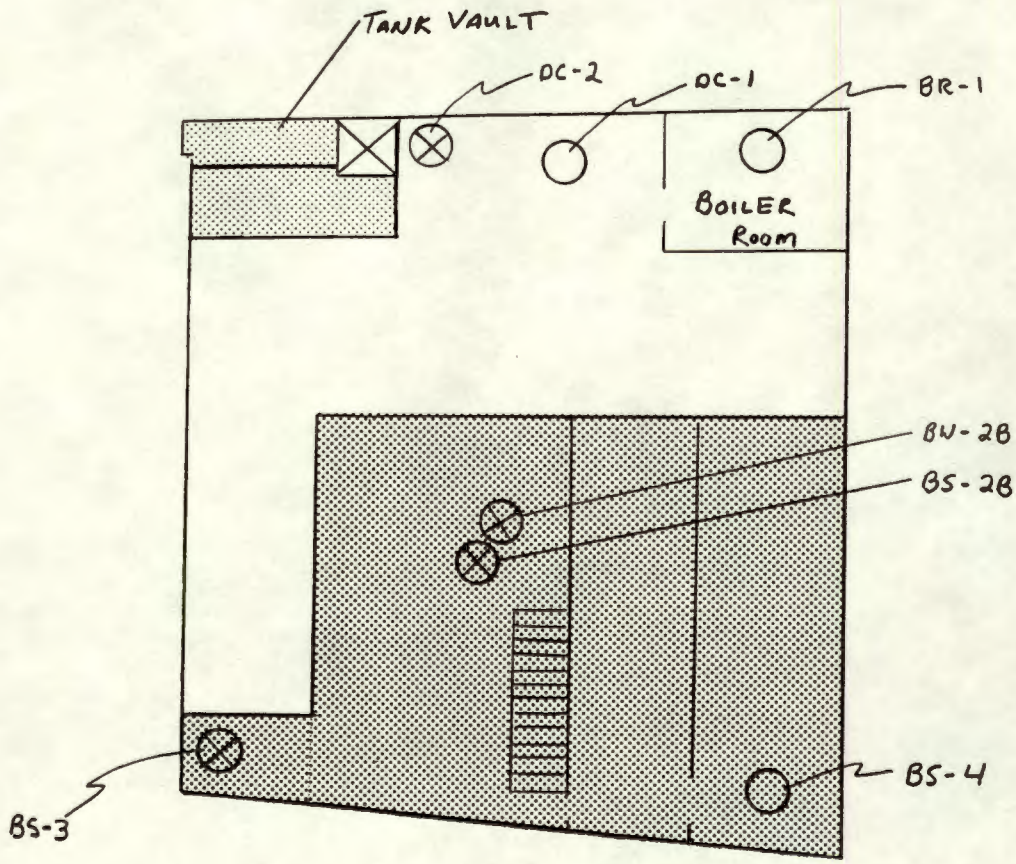
CONTAINER CLASSIFICATION (columns UNPRESERVED through TOTAL)

TOTAL NUMBER OF CONTAINERS: 1

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: [signature]	8-5-93	1745	[signature]
2. RELINQUISHED BY:			
3. RELINQUISHED BY:			

APPENDIX C

SAMPLE LOCATION MAP



GROUND LEVEL

BASEMENT

HIGH CONCENTRATION RESULTS

LOW CONCENTRATION RESULTS

MONROE MONITORING & ANALYSIS, INC. 1425 MT. READ BLVD., ROCHESTER, N.Y.	CLIENT: SPEEDY CLEANERS PROJECT: DRAWING:	DRAWN BY: RTB CHECKED BY: APPROVED BY:	PROJECT NO.: DRAWING NO.: SHEET NO.: SCALE: DATE: