WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Regional Headquarters
2300 N. Dr. ML King Drive, PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
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August 8, 2000

Mr. Robert Miller
Spic and Span, Inc.
4301 North Richards St.
Milwaukee, WI 53212

Subject: Final Closure for Dryclean USA Facility #82, 8783 North Port Washington Road, Fox Point, WI FID: 241285440, BRRTS: 02-41-217871.

Dear Mr. Miller:

I have reviewed the site investigation report and request for closure for the above-named site as received on April 19, 2000. Based on the investigation and remedial documentation provided to the Department, it appears that the above-named site is in compliance with the requirements of Chs. NR 700 to 724, as applicable, and the information specified in s. NR 726.05 (3) Wis. Admin. Code. Therefore, the Department considers the case closed and tracked as such, having determined that no further action is necessary at the site at this time. However, the case may be reopened pursuant to S. NR 726.09, Wis. Admin. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to the Remediation and Redevelopment programs assistant (263-8680) at the above address.

Sincerely,

John J. Hnat
Hydrogeologist
Remediation and Redevelopment

C: Brian Schneider, McLaren Hart
WDNR SER Files

April 11, 2000

Ms. Pat Chung
Program Specialist
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
P.O. Box 12436
Milwaukee, WI 53212

Re: FID #: 241285440
Dryclean USA
8783 North Port Washington Road, Fox Point, Wisconsin
Site Investigation Report

Dear Ms. Chung:

Enclosed are two copies of the Site Investigation Report for the Dryclean USA property referenced above and a check for $750 for the review fee. The report was prepared in accordance with applicable sections of Wis. Adm. Code chs. NR 716.15. Based on the results of the investigation, McLaren/Hart recommends closure of the site. Feel free to contact either Brian Schneider or George Bayer if you have any questions or require additional information.

Sincerely,

McLAREN/HART ENVIRONMENTAL ENGINEERING CORPORATION

Brian Schneider, P.E.
Supervising Engineer

George J. Bayer
Associate Geoscientist

O:\COMMON\Spic&Span\spic&span82rpt.wpd

cc: Mark Thimke, Esq. w/o attachment
Mr. Robert Miller w/o attachment
Mr. Mike Bamberger w/o attachment

W239 N2890 Pewaukee Road, Unit D, Pewaukee, WI 53072 (414) 523-2040 FAX (414) 523-2059

Code 37
~~Code 137~~
Code 79

SITE INVESTIGATION REPORT

DRYCLEAN USA
FACILITY #82
8783 NORTH PORT WASHINGTON ROAD
FOX POINT, WISCONSIN
FID #: 241285440
BRRTS #: 02-41-217871

Prepared for:

Mr. Robert Miller
Spic and Span, Inc.
4301 North Richards Street
Milwaukee, WI 53212

Prepared by:

McLaren/Hart
Environmental Engineering Corporation
W239 N2890 Pewaukee Road
Pewaukee, Wisconsin 53072

April 11, 2000

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SITE INVESTIGATION REPORT

DRYCLEAN USA
FACILITY #82
8783 NORTH PORT WASHINGTON ROAD
FOX POINT, WISCONSIN
FID #: 241285440
BRRTS #: 02-41-217871

April 11, 2000

CERTIFICATION - PROFESSIONAL ENGINEER

I, Brian W. Schneider, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

REPORT: 9 pages

ATTACHMENTS:

A	Figures	3 pages
B	Tables	1 pages
C	Field Methodologies	3 pages
D	Laboratory Analytical Reports/Chain-of-Custody Documents	37 pages
E	Soil Boring Logs/Abandonment Forms/Well Construction Logs	16 pages

Supervising Engineer
Signature and Title

4/11/2000
Date

P.E. Stamp

1.0 INTRODUCTION

1.1 SITE LOCATION

The Property is located in the NW 1/4 of the NE 1/4 of Section 8, Township 8 North, Range 22 East. The address is 8783 North Port Washington Road in Fox Point, Wisconsin. The site location is shown in Figure 1, Attachment A.

1.2 BACKGROUND

The following report summarizes investigation activities performed in or adjacent to the Dryclean USA facility located in the Riverpoint Village Shopping Center. These activities were performed as a follow-up to the investigation activities previously performed by McLaren/Hart on October 19, 1998 and documented in the attached Site Investigation Results report dated November 2, 1998, and by Geraghty and Miller on December 11, 1998. Copies of these reports are included in the Site Investigation Work Plan by McLaren/Hart dated March 17, 1999. A site location diagram is presented in Figure 1.

Dryclean USA is a subsidiary of Spic and Span, Inc. and the Dryclean USA facility space is leased from the North Shore Centers Partners, the property owner. The Shopping Center was constructed in 1981. Dryclean USA has occupied the space and conducted dry cleaning operations since January 1, 1981. The dry cleaning machine was placed in a containment structure in 1995.

On October 19, 1998, McLaren/Hart performed three soil boring tests (B-1 to B-3) in the immediate vicinity of the dry cleaning machine. Soil samples were collected from each boring from approximately 0.5 to 2.5 and 4.5 to 6 feet below ground surface (bgs). The samples were analyzed for tetrachloroethylene (PCE) and its potential breakdown products. Generally, one sample was obtained from fill soils beneath the concrete slab and one sample was obtained from native soils (or fill) found at a greater depth. Laboratory analyses were performed by Great Lakes Analytical using U.S. EPA SW-846 Method 8021. PCE concentrations ranged from "no detect" to 210 µg/kg. No PCE breakdown products were detected above the laboratory detection limit of 25 µg/kg. Groundwater was not encountered during this investigation. Additional details are included in the attached Site Investigation Results report.

On December 11, 1998, Geraghty and Miller performed three soil boring tests in the immediate vicinity of the dry cleaning machine and two soil boring tests west of the Dryclean USA facility building. Soil samples were analyzed for volatile organic compounds and were collected from approximately 0 to 4 feet bgs. PCE concentrations ranged from 730 µg/kg to 1,000 µg/kg in the vicinity of the dry cleaning machine. PCE was detected, in the area west of the facility building, below the Limit of Quantitation at concentrations estimated to be within the range of 34 µg/kg to 47 µg/kg. Groundwater was not encountered during this investigation.

1.3 PROPERTY OWNERSHIP

The Property is owned by:

North Shore Centers Partners
8607 North Port Washington Road
Milwaukee, WI 53217

The responsible party for the site investigation:

Spic and Span, Inc.
4301 North Richards Street
Milwaukee, WI 53212
Attention: Mr. Robert Miller
(414) 964-5050

1.4 CONSULTANTS AND CONTRACTORS

The site investigation activities reported herein were performed by:

McLaren/Hart Environmental Engineering Corporation
W239 N2890 Pewaukee Road, Unit D
Pewaukee, WI 53072
(414) 523-2040 - phone
(414) 523-2059 - fax

As part of the investigation, the following service/commodity providers also conducted activities associated with the Property investigation:

Soil Probe Services

Terra-Trace Environmental Services
15 Cornell Drive
Lincolnshire, IL 60069
(847) 945-6118

Laboratory Analytical Services

Great Lakes Analytical
1380 Busch Parkway
Buffalo Grove, IL 60089
(847) 808-7766

2.0 SITE PHYSIOGRAPHY, GEOLOGY AND HYDROGEOLOGY

2.1 TOPOGRAPHY AND SURFACE WATER DRAINAGE

- Site Topography. Based on the United States Geological Survey (USGS), Thiensville, Wisconsin, 7.5 minute topographic map (1976), the topography in the immediate vicinity of the site slopes gently downward to the southwest from the site.

- Surface Water Drainage. Storm water along the site is anticipated to generally drain northward along the curb side drainage associated with the parking lot of the shopping center. The curb side drainage discharges to the storm sewer system. Storm water collecting on the roof of the building is conveyed by roof drains to the storm sewer as well.

2.2 SOILS AND GEOLOGY/HYDROGEOLOGY

- Site Geology/Hydrogeology. The surface soils (less than five feet deep) have been classified by the U.S. Department of Agriculture, Soil Conservation Service (1971). The general soil association is the Kewaunee - Manawa Association with site-specific soils consisting of Kewaunee Silt Loam Series. The general soil association is described as well-drained to poorly drained soils with a subsoil of clay and silty clay that formed in areas of thin loess and silty clay glacial till on moraines and in depressed areas.

  The Kewaunee Silt Loam consists of moderately well-drained , silty loam soils that have a clay loam subsoil underlain by calcareous silty clay glacial till. The Kewaunee soils have slow permeability and high available water capacity.

  As noted, the site soils formed in areas of glacial till. The glacial till deposits in the area of the subject property vary between 100 to 200 feet thick and consist of unsorted, unstratified, unconsolidated mixtures of clay, silt, sand, pebbles, cobbles and boulders. The glacial till overlies the Niagara Dolomite bedrock which is up to 450 feet thick. The glacial deposits, as well as the bedrock, are considered to be groundwater aquifers.

3.0 SITE INVESTIGATION ACTIVITIES

The site investigation scope of work was developed in response to data gaps from the previous investigation. Additional tasks were added to the scope of work as the need for additional data was identified. The additional tasks are specified in the following sections.

3.1 PROJECT SCOPING DATA

To the extent practical, the scope of the project was defined in consideration of the criteria listed in NR 716.07, as detailed below. The data were updated during the investigation, as appropriate:

- Site Use. The Dryclean USA facility is located in the River Point Village Shopping Center and has operated as a dry cleaning facility at this location since January 1, 1981.

- Type and Amount of Impact. Based on investigations performed to date, soils in the immediate vicinity of the dry cleaning machine are impacted with PCE. PCE concentrations in soil samples collected from the vicinity of the dry cleaning machine ranged from 91 to 1,000 µg/kg.

- Environmental Media Potentially Affected. PCE impacts are estimated to be predominately within the coarse fill soils and shallow silty clay soils underlying the Dryclean USA facility.

- Need for Access Permission. The North Shore Centers Partners owns the property on which the impacts were found. Based on prior investigation findings, the impacts are believed to be limited to coarse fill soils in the vicinity of the dry cleaning machine and may extend to adjacent tenant spaces.

  Based on existing data, no off-site impacts are suspected and off-site access permission will not be required. Access permission was required from the property owner (see Figure 2).

- Potential Receptors. No groundwater impacts have been identified at the site. Groundwater was not observed during the investigation.

- Significant Resources. Based on existing data, the site has not affected and does not present a threat to any threatened or endangered species, sensitive habitats, wetlands, resource waters, or historical or archeological sites.

- Immediate or Interim Actions: None have been conducted or are proposed.

The additional information needed to determine an appropriate remedial response includes, the lateral and vertical boundaries of affected soil in the vicinity of the dry cleaning machine and other data needed to determine a site-specific cleanup approach.

3.2 SITE PHYSIOGRAPHY/SAMPLING STRATEGY

The sampling strategy was developed to identify the boundaries of soil impact, based on the known site conditions and characteristics. The sampling locations were selected based on data obtained from prior investigations and site characteristics.

3.3 FIELD INVESTIGATION METHODS

3.3.1 Soil Sample Collection and Handling

Soil sampling was performed using either portable power, hand augering, or soil probe equipment. Upon collection, the soil was classified with respect to USGS classification, color, moisture content, evidence of impact (discoloration and odor) and other observations. When practical, ASTM methods D-2487 and D-2488 were utilized. The information was recorded in a bound field notebook used to record daily activities.

As soon as possible following sample collection, the soil samples for the laboratory analysis were transferred to appropriate laboratory-provided containers. A fresh pair of latex (or similar) gloves will be used during the handling of each sample to minimize the potential for cross contamination. The samples were containerized in laboratory-provided 60-ml glass jars with Teflon® septa. Twenty-five to 35 grams of soil was placed in the jars and each sample was preserved in the field with laboratory-provided purge-and-trap grade methanol.

The sample jars were labeled with the sample location identification, depth of sample, date of sample collection and intended analysis. The sample jars were placed in resealable plastic bags and packed in an iced, insulated container. A chain-of-custody form was completed each day, and accompanied each container of samples from the site to the laboratory. Samples were transported from the facility to the laboratory via overnight courier.

3.3.2 Decontamination Procedures

Soil sampling equipment was decontaminated before each boring location using an Alconox or TSP solution and rinsed in clean water (distilled, deionized or municipal potable). Any sampling tools (i.e., spoons, knives, spatulas, etc.) were also be cleaned in a solution of Alconox or TSP solution and rinsed in clean water prior to collection of each sample. A clean pair of latex, or equivalent, gloves was used during each sample to minimize the potential for cross-contamination.

3.3.3 Laboratory Analysis

Laboratory analyses were performed by Great Lakes Analytical using Wisconsin-modified U.S. EPA SW-846 Method 8021, target list compounds: PCE 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), trans-1,2-dichloroethene, 1,1,2-trichloroethane, 1,1-dichlorethane, 1,2-dichloroethane, and vinyl chloride. The target list is

defined to identify the PCE used at the facility, its potential breakdown products and related compounds.

3.4 QUALITY ASSURANCE/QUALITY CONTROL METHODS

The following quality assurance/quality control measures were implemented during the site investigation activities:

- Decontamination procedures and measures to minimize the potential for cross-contamination of samples were followed as specified in section 2.3.2.
- All site activities were recorded in a bound field notebook (see Field Documentation section below).
- Chain-of-custody procedures were followed as specified in Attachment D.

A methanol blank was included in each cooler shipped to the laboratory. The samples were shipped on ice; therefore, no temperature blanks were required.

3.5 FIELD DOCUMENTATION

All site activities were documented in a bound field notebook. Included in the daily documentation are:

- Procedures for sampling and other routine activities associated with the site investigation.
- Field observations.
- Chronological log of site activities.

3.6 SITE HEALTH AND SAFETY

All reasonable measures were taken to protect the health and safety of the personnel and general public. A site Health and Safety Plan that meets or exceeds the standards found in 29 CFR 1910.120 was prepared and followed during site activities. All project personnel and subcontracted personnel were trained in hazardous materials handling and have on-site training and experience.

Detailed methodologies for each of these tasks is provided in Attachment D. Additional information is presented in the following sections.

3.7 INVESTIGATION SCOPE OF WORK

The site investigation activities, as presented in the March 17, 1999 Work Plan, were implemented on April 12, 1999. The scope of work included:

- Sample 8 soil borings to various depths (six to twenty feet) below ground surface.
- Collect up to two soil samples from each boring for laboratory analysis of selected VOCs. The samples were collected from various depths.

The specific objectives of each sampling location are presented in the March 17, 1999 Work Plan.

3.8 VARIATIONS FROM WORK PLAN

The following tasks were altered or added to the original work plan in response to field conditions and data needs:

- Boring B-6 was relocated approximately 8 feet west due to subsurface obstructions.
- Boring B-9 was relocated approximately 8 feet northwest due to utility conflicts.

3.9 RESULTS

The boring locations are shown in Figure 2 and the analytical results are summarized in Table 1. Figure 3 presents soil analytical results. Laboratory reports, quality control data and chain of custody documents are provided in Attachment D. Soil boring logs are provided in Attachment E.

3.9.1 Soil Sampling

One to two soil samples were collected from each of the eight soil borings installed at the site. The samples were submitted for laboratory analysis of select VOCs. The soil sampling analytical results are detailed in Table 1. Tetrachloroethene (PCE) was the only VOC detected. PCE was detected in four of the eight borings (B-4 through B-6 and B-8) at concentrations as high as 160 µg/kg.

PCE was not detected in any of the borings installed by McLaren/Hart outside of the building. PCE impacted soil was generally confined to within a 20 foot radius of the dry cleaning machine. The highest PCE concentrations were generally detected in the fill and shallow silty clay soils immediately beneath the interior concrete slab (SB-2, GP-1, GP-2 and GP-3). PCE concentrations generally decreased with depth in the natural clay soils. The PCE concentrations in samples collected from clay soils approximately 8 feet bgs in B-8 (performed adjacent to the dry cleaning machine and between [and below] the depth of GP-2 and GP-3) indicated a PCE concentration of 65 µg/kg. These concentrations were approximately one-tenth less than the concentrations observed from the samples collected from the overlying fill material and shallow silty clay soils in GP-2 (1,000 µg/kg) and GP-3

(750 µg/kg). In addition, PCE concentrations in borings B-2, B-4 and B-6 decreased with depth (PCE was not detected in borings B-4 and B-6 at depths greater than 7 feet bgs).

3.9.2 Groundwater

Groundwater was not observed in any of the soil borings (as deep as 20 feet bgs) installed by McLaren/Hart.

4.0 RISK ASSESSMENT

Based on the results of the investigation the PCE is predominantly confined to a small volume of fill soils and shallow (1-4 feet bgs) silty clay soils beneath the interior concrete slab. Furthermore, PCE concentrations in the soils generally decrease with distance from the dry cleaning machine, and are apparently confined to within the building footprint. Soil boring logs from this investigation indicate the underlying clay soils extend to a depth to at least 20 feet bgs, and regional geological information indicates the clay soils extend to a much greater depth than this.

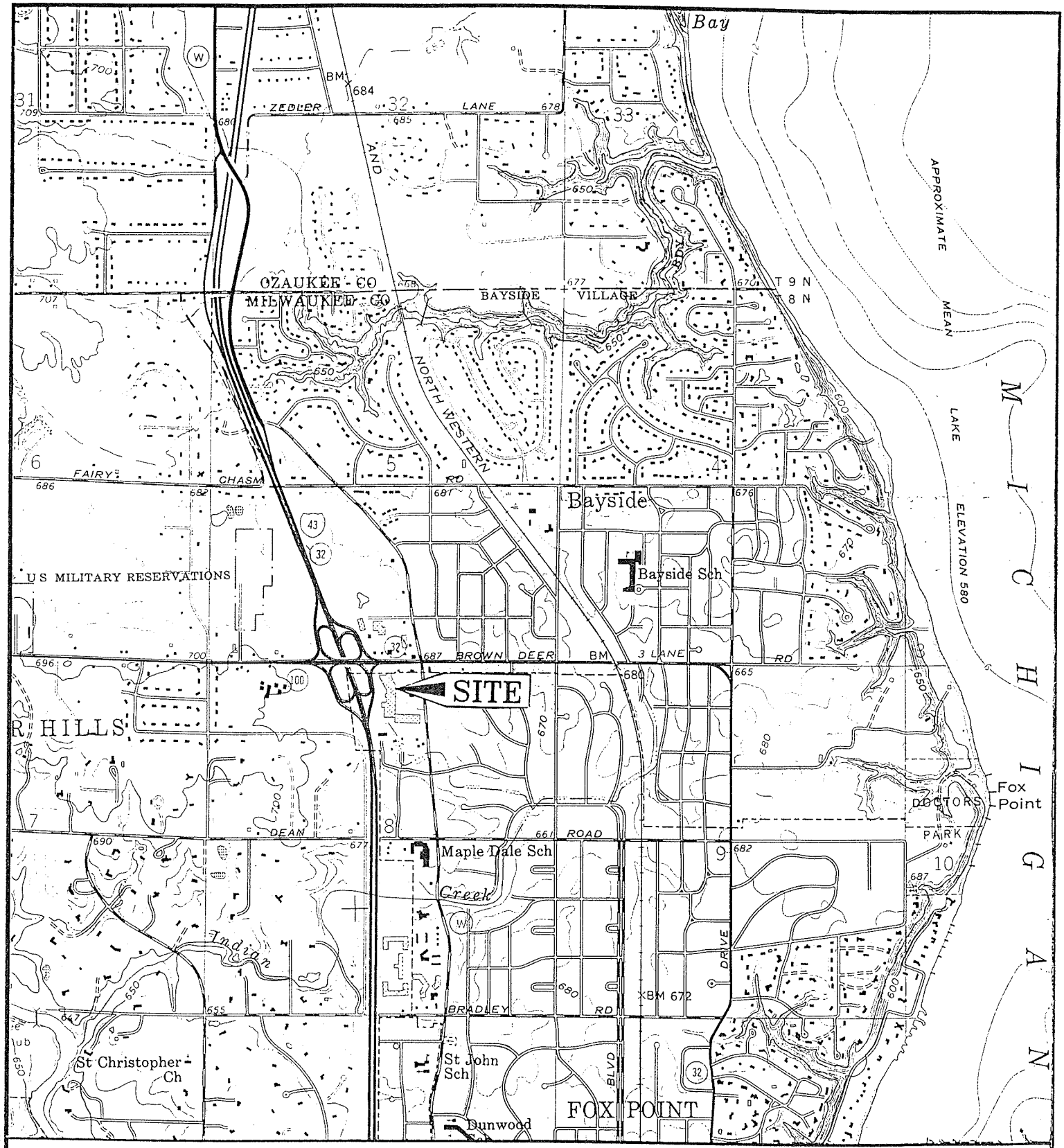
The WDNR Direct Contact Risk Model was used to evaluate the excess cancer risk attributable to contact with PCE through ingestion of soil particles, inhalation of soil particles and inhalation of PCE vapors. The results of the WDNR Direct Contact Risk Model indicate that soils with concentrations below 8.6 mg/kg would not pose a threat to human health. This is 8.6 times the highest concentration of 1 mg/kg detected on site to date. Based on this, the PCE would not pose a threat to human health and the quality of the environment, even if in the building were to be demolished and the soils disturbed at a future date. The WDNR Direct Contact Risk Model is shown in Table 2.

The potential risk to human health through ingestion of groundwater would be minimal to non-existent for the following reasons:

- The PCE is contained within low conductivity clay soils;
- There is a separation distance between soil and groundwater of at least five feet or more (groundwater was not encountered during this investigation);
- Water at the site is provided by the City of Fox Point. There are no private wells within 100 feet, or public supply wells within 1,000 feet of the site.

5.0 SUMMARY AND RECOMMENDATIONS

Soil samples were obtained from areas surrounding the dry cleaning machine located within the Dryclean USA facility. Soil borings were also installed on the exterior of the building and within a utility closet adjacent to the Cousins Subs facility in an attempt to define the horizontal and vertical extent of PCE impacts. Based on the results of the investigation, the PCE is predominantly confined to a small volume of fill soils and shallow (1-4 feet bgs) silty clay soils beneath the interior concrete slab. Furthermore, PCE concentrations in the soils generally decrease with distance from the dry cleaning machine. The PCE concentrations are limited in magnitude and further migration is limited by underlying native clay soils. The results of the WDNR Direct Contact Risk Modeling indicate that even in the event of future demolition of the building and disturbance of the soils, the PCE would not pose a threat to human health and the quality of the environment through direct contact. In addition, the potential risk to human health through ingestion of groundwater is minimal to non-existent. Therefore, McLaren/Hart requests closure of this site.



Adapted from: USGS 7.5 minute series
Thiensville, Wisconsin topographic quadrangle
dated 1956, photorevised 1976.

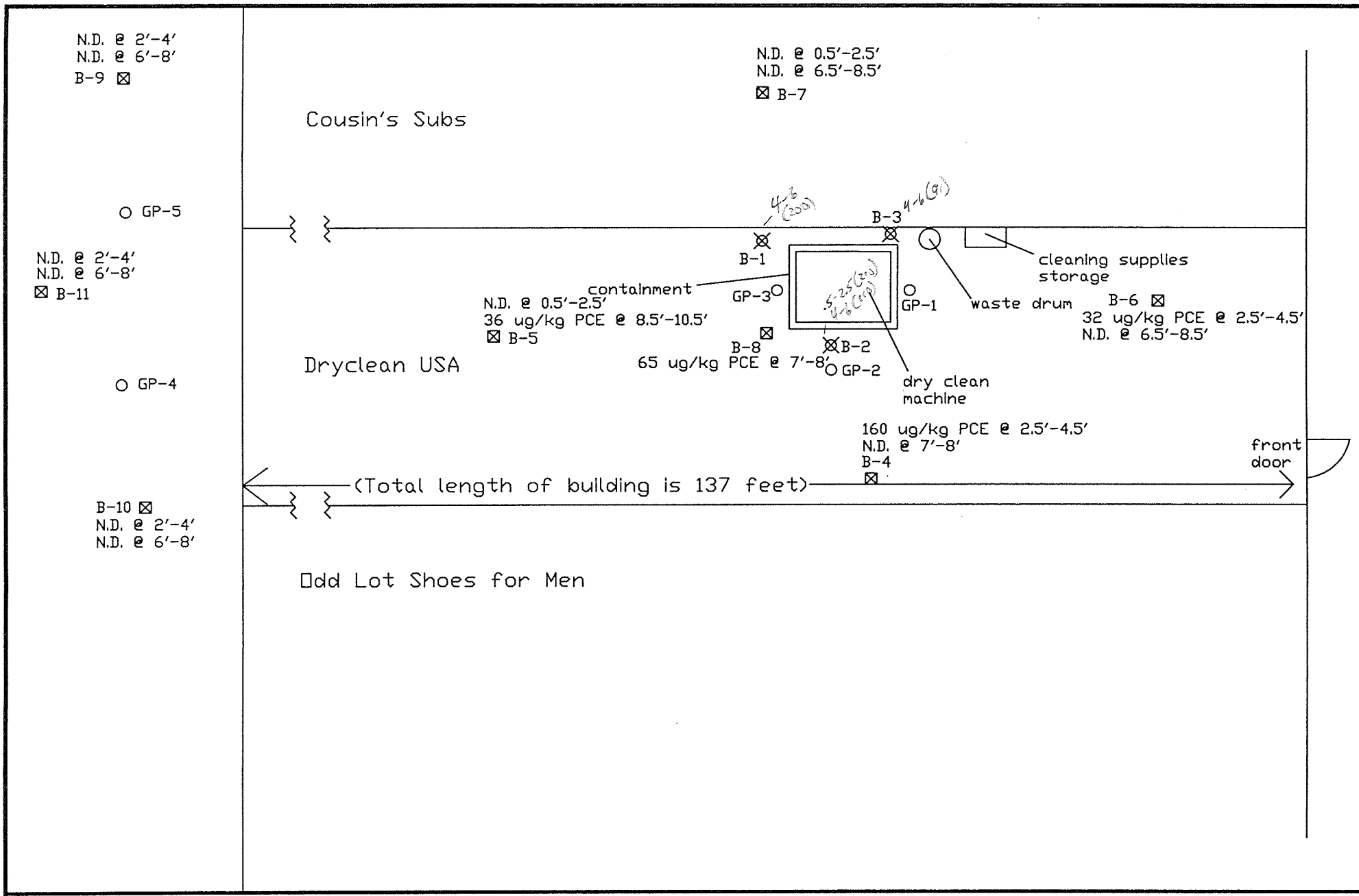
McLaren Hart® ENVIRONMENTAL ENGINEERING CORPORATION

DRWN: MED	CHK'D: BWS
JOB#: 10080-4273-001	DATE: 1-31-00

FIGURE 1

SITE LOCATION MAP

Dry Clean USA
Fox Point, Wisconsin



McLaren Hart® ENVIRONMENTAL ENGINEERING CORPORATION

DRWN: MED	CHK'D: GJB
JOB#: 10080.4135.001.001	DATE: 10-30-98

APPROXIMATE SCALE
0 5 10 feet

LEGEND
- ⊠ Boring Location
- ⊠ Boring Installed on 4/12/99
- O Geraghty & Miller Boring Location

N
W E
S

FIGURE 2
Boring Locations
Dryclean USA (store # 82)
8783 N. Port Washington Rd.
Fox Point, WI

Dwg! 82

Table 1
SOIL ANALYTICAL RESULTS
Dryclean USA Facility #82
8783 North Port Washington Road
Fox Point, Wisconsin
Samples analyzed for Volatile Organic Compounds-special list (VOCs (Method 8021)).
Concentrations in Micrograms per Kilogram

		Dryclean USA and Adjacent Spaces										
	Sample Identification	B-1	B-1	B-2	B-2	B-3	B-3	B-4	B-4	B-5	B-5	B-6
	Depth (ft)	0.5-2.5	4.5-6	0.5-2.5	4.5-6	0.5-2.5	4.5-6	2.5-4.5	7-8.5	0.5-2.5	8.5-10.5	2.5-4.5
	Date Collected	10/20/98	10/20/98	10/20/98	10/20/98	10/20/98	10/20/98	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99
ANALYTES:	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	200	210	110	ND	91	160	ND	ND	36	32
	Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Sample Identification	B-6	B-7	B-7	B-8	B-9	B-9	B-10	B-10	B-11	B-11	Blank
	Depth (ft)	6.5-8.5	0.5-2.5	6.5-8.5	7-8	2-4	6-8	2-4	6-8	2-4	6-8	~
	Date Collected	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99
ANALYTES:	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	65	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Only positive detection (i.e., > practical quantitation limit) shown.
ND: Not detected above practical quantitation limit.

DRAFT

TABLE 2
WDNR DIRECT CONTACT RISK MODEL
SOIL CLEAN-UP GOALS

COMPOUND: PCE

PROJECT NAME: Dryclean U.S.A., Fox Point

SITE SPECIFIC PROPERTIES:

CONTAMINANT CONCENTRATION	C_{CHEM}=	8.59	mg/kg
WIDTH OF CONTAMINATED AREA	LS=	15	m
AREA OF CONTAMINATED SOIL	A=	160	m^2
ORGANIC CARBON CONTENT OF SOIL	OC=	0.0038	fraction
SOIL PARTICLE DENSITY	P_S=	2.6	g/cm^3
SOIL POROSITY	E=	0.45	unitless

CHEMICAL SPECIFIC PROPERTIES

ORAL CANCER SLOPE FACTOR (FROM RISK-BASED CONC. TABLE BACKGROUND INFORMATION)

$SF_{O\text{-}CHEM}$= 0.052 $[(mg/kg\text{-}day)]^{-1}$

INHALATION CANCER SLOPE FACTOR (FROM RISK-BASED CONC. TABLE BACKGROUND INFORMATION)

$SF_{i\text{-}CHEM}$= 0.00203 $[(mg/kg\text{-}day)]^{-1}$

MOLECULAR DIFFUSIVITY OR AIR DIFFUSION COEFFICIENT	$D_{i\text{-}CHEM}$=	0.0861	cm^2/sec
HENRY'S LAW CONSTANT	H_{CHEM}=	0.0149	$atm\text{-}m^3/mol$
ORGANIC CARBON PARTITION COEFFICIENT	$K_{OC\text{-}CHEM}$=	324	cm^3/gm

DNR DEFAULT EXPOSURE ASSUMPTIONS PER NR 720.19(5)(c)2.a.

INGESTION RATE OF SOIL AGE 1-6	$IR_{SOILAGE\ 1\text{-}6}$=	200	mg/day
INGESTION RATE OF SOIL AGE 7-31	$IR_{SOILAGE\ 7\text{-}31}$=	100	mg/day
DAILY INHALATION RATE	IR_{AIR}=	20	m^3/day
AVERAGE BODY WEIGHT AGE 1-6	$BW_{AGE\ 1\text{-}6}$ =	15	kg
AVERAGE BODY WEIGHT AGE 7-31	$BW_{AGE\ 7\text{-}31}$=	70	kg
EXPOSURE DURATION DURING AGES 1-6	$ED_{AGE\ 1\text{-}6}$ =	6	yr
EXPOSURE DURATION DURING AGES 7-31	$ED_{AGE\ 7\text{-}31}$=	24	yr
EXPOSURE DURATION FOR INHALATION OF PARTICULATES	$ED_{INHALATION}$=	30	yr
EXPOSURE FREQUENCY	EF=	350	days/year
AVERAGING TIME	AT=	70	yr

CONTINUED ON FOLLOWING PAGE

DIRECT CONTACT RISK MODEL (CONTINUED)

EXCESS CANCER RISK DUE TO INGESTION OF SOIL (NON-INDUSTRIAL)

AGE ADJUSTED SOIL INGESTION FACTOR	$IF_{SOIL/ADJ}$=	114.29	mg-yr/kg-day
CANCER RISK FROM INGESTION OF CONTAMINATED SOIL	$RISK_{ING-CHEM}$=	6.99E-07	unitless

EXCESS CANCER RISK DUE TO INHALATION OF PARTICLES

WIND SPEED IN MIXING ZONE	V=	2.25	m/sec
DIFFUSION HEIGHT	DH=	2	m
RESPIRABLE FRACTION	RF=	0.036	g/m^2-hr
FRACTION OF VEGETATIVE COVER	G=	0.05	unitless
MEAN ANNUAL WIND SPEED	Um=	4.5	m/sec
EQUIVALENT THRESHOLD VALUE OF WIND SPEED AT 10 M	Ut=	12.8	m/sec
FUNCTION DEPENDENT ON Um/Ut	F(x)=	0.0497	unitless
PARTICULATE EMISSION FACTOR	PEF=	2.06E+10	m^3/kg
RISK FROM INHALATION OF CONT. SOIL PARTICULATES	$RISK_{INHP-CHEM}$=	9.96E-14	unitless

EXCESS CANCER RISK DUE TO INHALATION OF VAPORS

UNIT CONVERSION - AREA OF CONTAMINATED SOIL	A_{CM}=	1600000	cm^2
EXPOSURE INTERVAL	T=	7.90E+08	sec
SOIL-WATER PARTITION COEFFICIENT	K_{d-CHEM}=	1.2312	cm^3/g
SOIL-AIR PARTITION COEFFICIENT	$K_{as-CHEM}$=	0.496183	g/cm^3
EFFECTIVE DIFFUSIVITY	$D_{ei-CHEM}$=	0.066155	cm^2/g
CHEMICAL ALPHA VALUE	$Þ_{CHEM}$=	0.008935	cm^2/sec
SOIL TO AIR VOLATILIZATION FACTOR	VF_{CHEM}=	6722.797	m^3/kg
CANCER RISK DUE TO INHALATION OF VAPORS	$RISK_{INHV-CHEM}$=	3.05E-07	unitless

EXCESS CANCER RISK DUE TO CHEMICAL CONTAMINATED SOIL

$RISK_{CHEM}$= 1.00E-06 unitless

References

1.) Smith, R.L. October, 1995. "EPA Region III Risk-Based Concentration Table Background Information."

2.) U.S. EPA 1991. Risk Assessment Guidance for Superfund Volume 1: Human Health Evaluation Manual (Part B, Development of Risk-Based Preliminary Remediation Goals).

SOIL SAMPLE LOGGING, COLLECTION AND HANDLING

Following retrieval of the soil sample from the sampling device, a section of sample intended for laboratory analysis was contained. A portion of the sample was immediately transferred to laboratory-provided containers, field preserved (if appropriate), labeled, placed in a plastic bag, sealed and stored in an insulated container pending shipment to the laboratory.

The remaining sample was classified in accordance with ASTM method D-2487, with reference to method D-2488 (as appropriate). The descriptions may include information pertaining to soil type (Unified Soil Classification System code), grain size distribution, gradation, color (Munsell notation or other), odor, moisture content, consistency, grain shape, lithology and other content, structure, mottling and layering, as appropriate. Upon completion of classification, this portion of the sample was contained in a sealed plastic bag pending field screening, or was deposited in an appropriate container pending disposal.

The samples to be analyzed in the laboratory for volatile organic compounds (VOCs; SW-846 Method 8021) were transferred to laboratory-provided 60-ml glass jars with Teflon® septa. Twenty-five to 35 grams of soil was placed in the jars and preserved in the field with laboratory-provided purge-and-trap grade methanol. The jars were then securely sealed, labeled with the sample identification, date of collection and intended analysis. The selected sample containers were then placed in resealable plastic bags and stored on ice in an insulated container.

The samples were transported to a Wisconsin-certified laboratory via overnight courier or the laboratory courier or McLaren/Hart staff. All sampling locations and procedures were documented in a bound field notebook used to record daily activities at the site.

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SAMPLE CUSTODY PROCEDURES

Sample custody procedures are designed to comply with U.S. EPA and National Enforcement Investigation Council (NEIC) requirements for sample control. Samples collected during a site investigation are the responsibility of identified persons from the time they were collected until they or their derived data are incorporated into the final report. Stringent chain-of-custody procedures were followed to maintain and document sample possession.

Chain-of-custody forms were competed to the fullest extent possible prior to sample shipment. They included the following information:

- Sample identification;
- Date collected;
- Source of sample (including type of sample and site identification);
- Sampler name.

The forms were filled out in a legible manner using waterproof ink and were signed by the sampler. Similar information was provided on the sample label, which was securely attached to the sample bottle. Samples were always accompanied by a chain-of-custody record. When transferring samples, the individuals relinquishing and receiving them signed, dated and noted the time on the record. A separate custody record accompanied each sample container. A copy of the custody record was retained by the field sampler and filed upon return to the office.

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SOIL PROBE SAMPLE COLLECTION METHODS

A soil probe (Geoprobe® or other) unit consists of a hydraulic ram with a hydraulic hammer, the sampling probe and driving rods. The sampling probe is a one- or two-inch diameter stainless steel tube into which a disposable polyethylene liner is inserted prior to each sampling event. The sampler is then driven into the ground using the hydraulic ram or, when the hydraulic ram cannot exert enough pressure to continue to push the sampler into the ground, the hammer.

Prior to driving the sampler into the ground and between each sampling event, the stainless steel tube was washed in a solution of water and Alconox®. The sampler was rinsed in clean water. A new, clean plastic sleeve was inserted for each sampling event. The plastic sleeves are disposable and not intended for reuse.

After the sampler penetrated the ground to the appropriate depth, the nose plug was removed (one-inch sampler only; the two-inch sampler does not use a nose plug) and the sampler was pushed/hammered an additional two feet into the ground (undisturbed soil collection procedures). Upon advancing the sampler two feet (one-inch sampler) or four feet (two-inch sampler), the entire sampler, with the plastic sleeve intact, was withdrawn. The plastic sleeve was then provided to the on-site geologist or scientist for soil classification and sample containerization.

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GREAT LAKES ANALYTICAL

1380 Busch Parkway
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Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: April 21, 1999

Mclaren Hart
W239 N289 Pewaukee Rd.
Pewaukee, WI 53072
Attention: George Bayer

Project: Spic&Span

Enclosed are the results from 15 soil samples and 1 liquid sample received at Great Lakes Analytical on April 13, 1999. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
9040232-01	Soil: B-5 .5-2.5	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-02	Soil: B-5 8.5-10.5	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-03	Soil: B-8 7-8	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-04	Soil: B-4 2.5-4.5	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-05	Soil: B-4 7-8	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-06	Soil: B-7 .5-2.5	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-07	Soil: B-7 6.5-8.5	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-08	Soil: B-6 2.5-4.5	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-09	Soil: B-6 6.5-8.5	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-10	Soil: B-10 2-4	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-11	Soil: B-10 6-8	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-12	Soil: B-11 2-4	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5

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9040232-13	Soil: B-11 6-8	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-14	Soil: B-9 2-4	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-15	Soil: B-9 6-8	4/12/99	VOC, EPA 5030/8021 Percent Solids, EPA 7.3.3.1.5
9040232-16	Liquid: MeOH Blank	4/12/99	VOC, EPA 5030/8021

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled: Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil	Received: Apr 13, 1999
Pewaukee, WI 53072	Analysis for:	Percent Solids, EPA 7.3.3.1.5	
Attention: George Bayer	First Sample #:	9040232-01	Analyzed: April 19-20, 1999
			Reported: Apr 21, 1999

LABORATORY ANALYSIS FOR: Percent Solids, EPA 7.3.3.1.5

Sample Number	Sample Description	Detection Limit %	Sample Result %
9040232-01	B-5 .5-2.5	0.10	92
9040232-02	B-5 8.5-10.5	0.10	92
9040232-03	B-8-7-8	0.10	85
9040232-04	B-4 2.5-4.5	0.10	80
9040232-05	B-4 7-8.5	0.10	85
9040232-06	B-7 .5-2.5	0.10	83
9040232-07	B-7 6.5-8.5	0.10	86
9040232-08	B-6 2.5-4.5	0.10	86
9040232-09	B-6 6.5-8.5	0.10	82
9040232-10	B-10 2-4	0.10	80
9040232-11	B-10 6-8	0.10	85

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis for:	Percent Solids, EPA 7.3.3.1.5		
Attention: George Bayer	First Sample #:	9040232-12	Analyzed:	April 19-20, 1999
			Reported:	Apr 21, 1999

LABORATORY ANALYSIS FOR: Percent Solids, EPA 7.3.3.1.5

Sample Number	Sample Description	Detection Limit %	Sample Result %
9040232-12	B-11 2-4	0.10	84
9040232-13	B-11 6-8	0.10	84
9040232-14	B-9 2-4	0.10	85
9040232-15	B-9 6-8	0.10	84

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-5 .5-2.5	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-01	Analyzed:	Apr 16, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-5 8.5-10.5	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-02	Analyzed:	Apr 17, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	36
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-8 7-8	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-03	Analyzed:	Apr 19, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	65
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-4 2.5-4.5	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-04	Analyzed:	Apr 19, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	160
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-4 7-8	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-05	Analyzed:	Apr 19, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled: Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-7 .5-2.5	Received: Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021	
Attention: George Bayer	Lab Number:	9040232-06	Analyzed: Apr 19, 1999
			Reported: Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-7 6.5-8.5	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-07	Analyzed:	Apr 19-20, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-6 2.5-4.5	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-08	Analyzed:	Apr 19, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	32
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

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Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-6 6.5-8.5	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-09	Analyzed:	Apr 19, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-10 2-4	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-10	Analyzed:	Apr 19, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487;
USACE; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-10 6-8	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-11	Analyzed:	Apr 20, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

904023201.MMM <13>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-11 2-4	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-12	Analyzed:	Apr 20, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11437, Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-11 6-8	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-13	Analyzed:	Apr 20, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-9 2-4	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-14	Analyzed:	Apr 20, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

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Kevin W. Keeley
Laboratory Director

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GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Soil: B-9 6-8	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-15	Analyzed:	Apr 20, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Mclaren Hart	Client Project ID:	Spic&Span	Sampled:	Apr 12, 1999
W239 N289 Pewaukee Rd.	Sample Descript:	Liquid: MeOH Blank	Received:	Apr 13, 1999
Pewaukee, WI 53072	Analysis Method:	EPA 5030/8021		
Attention: George Bayer	Lab Number:	9040232-16	Analyzed:	Apr 20, 1999
			Reported:	Apr 21, 1999

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/L	Practical Quanitation Limit µg/L	WDNR Reporting Limit µg/L	Sample Results µg/L
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

20725 Watertown Road
Brookfield, WI 53501
(414) 798-1030
FAX (414) 798-1066

Client: Mclaren Hart
Address: W239 N2890 Pewaukee Rd #D
Pewaukee, WI 53072
Report to: George Bayer
Phone #: (414) 523-2040
Fax #: (414) 523 2059

Bill To: Same
Address:
State & Program: WI
Phone #:
Fax #:

TAT: (5 DAY) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
DATE RESULTS NEEDED: 4/20
TEMPERATURE UPON RECEIPT: On ice
AIR BILL NO. [illegible]

Project: Spic + Span #82
Sampler: George Bayer
PO/Quote #:

Analyses: VOCs 8021 (Special List); PCE, TCE, 111TCA; 11DCE, 112TCA; 11DCA, 12DCA; Trans 1,2 DCE; Vinyl Chloride; Dry Weight

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	VOCs 8021 (Special List)	PCE, TCE, 111TCA	11DCE, 112TCA	11DCA, 12DCA	Trans 1,2 DCE	Vinyl Chloride	Dry Weight						CRACKED-BROKEN	IMPROPERLY SEALED	GOOD CONDITION	LABORATORY ID NUMBER
1	B-5 0.5-2.5'	4/12/99	9:40	soil	MeOH	2		X						✓									904023201
2	B-5 8.5-10.5'	↓	10:10	↓	↓	↓		↓						✓									904023202
3	B-8 7-8'		10:45											✓									904023203
4	B-4 2.5-4.5'		11:00											✓									904023204
5	B-4 7-8.5'		11:25											✓									904023205
6	B-7 .5-2.5'		11:40											✓									904023206
7	B-7 6.5-8.5'		12:15											✓									904023207
8	B-6 2.5-4.5		12:45											✓									904023208
9	B-6 6.5-8.5		1:30											✓									904023209
10	B-10 - 2-4	↓	2:15	↓	↓	↓		↓						✓									904023210

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
George Bayer 4/13/99 8:30am	K Aptman 04/13/99	K Aptman 4/13/99	[signature] 4/13
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED

COMMENTS:

PAGE 1 OF 2

JG958198

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dryclean USA #82		B-4

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Terra-Trace Environmental Dan Lapoint	4/12/99	4/12/99	Soilprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet	Feet	2.0 Inches

Boring Location
State Plane N, E S/C/N
1/4 of 1/4 of Section T N,R
Lat o ' "
Long o ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	41	

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24		1	0.4' Concrete FILL, sand and gravel, light brown moist.	CL			<1						
			2	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist.										
2	24		3					<1						
			4											
3	24		5					<1						
			6											
4	24		7					<1						
			8											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
George J Bayer	McLaren/Hart Pewaukee, Wisconsin Tel: 414-523-2040, Fax: 414-523-2059

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dryclean USA #82		B-5

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Terra-Trace Environmental Dan Lapoint	4/12/99	4/12/99	Soilprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet	Feet	2.0 Inches

Boring Location
State Plane N, E S/C/N Lat ° ' "
1/4 of 1/4 of Section T N,R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	41	

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	18		1	0.4' Concrete FILL, sand and gravel, trace silt light brown, moist.				<1						
2	18		3	CLAY, silty, some fine to coarse grained sand, reddish brown, moist (possibly disturbed).	CL			<1						
3	18		5					<1						
4	18		7					<1						
5	12		9					<1						
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
George V. Bayer	McLaren/Hart Pewaukee, Wisconsin Tel: 414-523-2040, Fax: 414-523-2059

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dryclean USA #82		B-6

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Terra-Trace Environmental Dan Lapoint	4/12/99	4/12/99	Soilprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
— — —	— — — — — —		Feet	Feet	2.0 Inches

Boring Location
State Plane N, E S/C/N
1/4 of 1/4 of Section T N,R
Lat o ' "
Long o ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	41	

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24		1	0.4' Concrete FILL, sand and gravel, light brown moist.	CL			<1						
			2	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist.										
2	18		3					<1						
			4											
3	18		5					<1						
			6											
4	18		7					<1						
			8											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
George J Bayer	McLaren/Hart Pewaukee, Wisconsin Tel: 414-523-2040, Fax: 414-523-2059

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dryclean USA #82		B-7

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Terra-Trace Environmental Dan Lapoint	4/12/99	4/12/99	Soilprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
— — —	— — — — — —		Feet	Feet	2.0 Inches

Boring Location
State Plane N, E S/C/N
1/4 of 1/4 of Section T N,R
Lat o ' "
Long o ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	41	

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24		1	0.4' Concrete FILL, sand and gravel, light brown moist.	CL			<1						
			2	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist.										
2	24		3					<1						
			4											
3	18		5					<1						
			6											
4	24		7					<1						
			8											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
George J. Bayer	McLaren/Hart Pewaukee, Wisconsin Tel: 414-523-2040, Fax: 414-523-2059

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dryclean USA #82		B-8

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Terra-Trace Environmental Dan Lapoint	4/12/99	4/12/99	Soilprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet	Feet	2.0 Inches

Boring Location
State Plane N, E S/C/N
1/4 of 1/4 of Section T N,R
Lat o ' "
Long o ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	41	

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	18		1	0.4' Concrete FILL, sand and gravel, light brown moist.	CL			<1						
2	24		2	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist.				<1						
3	18		3					<1						
4	18		4					<1						
			5											
			6											
			7											
			8	(refusal at 8')										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: George J Bayer

Firm: McLaren/Hart
Pewaukee, Wisconsin
Tel: 414-523-2040, Fax: 414-523-2059

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dryclean USA #82		B-9

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Terra-Trace Environmental Dan Lapoint	4/12/99	4/12/99	Soilprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet	Feet	2.0 Inches

Boring Location
State Plane N, E S/C/N
1/4 of 1/4 of Section T N,R
Lat o ' "
Long o ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	41	

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24		1	0.4' Asphalt FILL, crushed stone, light gray, dry.				<1						
2	24		2					<1						
3	24		4	FILL, clay, silty, some fine to medium grained sand, trace organics, brown to dark grayish brown, moist.				<1						
4	18		6	(0.4' clayey sand seam at 6')				<1						
5	24		8	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist.	CL			<1						
6	24		10					<1						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
George J Bayer	McLaren/Hart Pewaukee, Wisconsin Tel: 414-523-2040, Fax: 414-523-2059

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A 7-91

Boring Number B-9 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
7	18		13		CL			<1						
8	18		14					<1						
			15											
9	24		16					<1						
			17											
10	24		18	CLAY, silty, trace fine to coarse grained sand, grayish brown, moist.	CL			<1						
			19											
			20											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dryclean USA #82		B-10

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Terra-Trace Environmental Dan Lapoint	4/12/99	4/12/99	Soilprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
--- --- ---	--- --- --- --- --- ---		Feet	Feet	2.0 Inches

Boring Location
State Plane N, E S/C/N Lat o ' "
1/4 of 1/4 of Section T N,R Long o ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	41	

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24		1	0.4' Asphalt FILL, crushed stone, light gray, dry.				<1						
2	24		2					<1						
3	24		4	Fill, clay, silty, trace fine to coarse grained sand, reddish brown, moist.				<1						
4	18		5 6	FILL, clay, silty, some fine to medium grained sand, trace organics, brown, moist.				<1						
5	24		7 8	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist.	CL			<1						
6	24		9 10					<1						
			11 12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature George A. Bayer

Firm McLaren/Hart
Pewaukee, Wisconsin
Tel: 414-523-2040, Fax: 414-523-2059

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dryclean USA #82		B-11

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Terra-Trace Environmental Dan Lapoint	4/12/99	4/12/99	Soilprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet	Feet	2.0 Inches

Boring Location
State Plane N, E S/C/N
1/4 of 1/4 of Section T N,R
Lat o ' "
Long o ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	41	

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	18		0-1	0.4' Asphalt FILL, crushed stone, light gray, dry.				<1						
2	12		1-3					<1						
3	18		3-5	FILL, clay, silty, some fine to medium grained sand, trace organics, brown, moist.				<1						
4	18		5-7					<1						
5	24		7-9	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist.	CL			<1						
6	24		9-12					<1						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
George J Bayer	McLaren/Hart Pewaukee, Wisconsin Tel: 414-523-2040, Fax: 414-523-2059

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Milwaukee

____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W

(If Applicable)

____ Gov't Lot ____ Grid Number

Grid Location

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: Fox Point, WI

City, Village

(2) FACILITY NAME Dryclean USA #82

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable): B-4

WI Unique Well No.

Reason For Abandonment: borehole

Date of Abandonment: 4/12/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 4/12/99

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) 8.50 (From groundsurface) Casing Diameter (ins.) ____

Casing Depth (Ft.) ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: none utilized

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	8.5	1/3 bag	

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work
McLaren/Hart Environmental Engineering

Signature of Person Doing Work: George J Bayer
Date Signed: 4/29/99

Street or Route: 3695-M North 126th Street
Telephone Number: 414-790-1974

City, State, Zip Code: Brookfield, WI 53005

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected
District/County
Reviewer/Inspector
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Milwaukee

____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W

(If Applicable)

____ Gov't Lot ____ Grid Number

Grid Location

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: Fox Point, WI

City, Village

(2) FACILITY NAME Dryclean USA #82

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable): B-5

WI Unique Well No.

Reason For Abandonment: borehole

Date of Abandonment: 4/12/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 4/12/99

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) 10.50 Casing Diameter (ins.) ____
(From groundsurface)

Casing Depth (Ft.) ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: none utilized

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	10.5	1/3 bag	

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work
McLaren/Hart Environmental Engineering

Signature of Person Doing Work: George Bayer
Date Signed: 4/29/99

Street or Route: 3695-M North 126th Street
Telephone Number: 414-790-1974

City, State, Zip Code: Brookfield, WI 53005

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected
District/County
Reviewer/Inspector
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Milwaukee

____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W

(If Applicable)

_____ Gov't Lot _____ Grid Number

Grid Location

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: Fox Point, WI

City, Village

(2) FACILITY NAME Dryclean USA #82

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable): B-6

WI Unique Well No.

Reason For Abandonment: borehole

Date of Abandonment: 4/12/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 4/12/99

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) 8.50 Casing Diameter (ins.) _____
(From groundsurface)

Casing Depth (Ft.) _____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) _____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: none utilized

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	8.5	1/3 bag	

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work: McLaren/Hart Environmental Engineering

Signature of Person Doing Work: George Boyce
Date Signed: 4/29/99

Street or Route: 3695-M North 126th Street
Telephone Number: 414-790-1974

City, State, Zip Code: Brookfield, WI 53005

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected
District/County
Reviewer/Inspector
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Milwaukee

____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W

(If Applicable)

____ Gov't Lot ____ Grid Number

Grid Location

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: Fox Point, WI

City, Village

(2) FACILITY NAME Dryclean USA #82

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable): B-7

WI Unique Well No.

Reason For Abandonment: borehole

Date of Abandonment: 4/12/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 4/12/99

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) 8.50 Casing Diameter (ins.) ____
(From groundsurface)

Casing Depth (Ft.) ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: none utilized

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	8.5	1/3 bag	

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work: McLaren/Hart Environmental Engineering

Signature of Person Doing Work: George Bayer
Date Signed: 4/29/99

Street or Route: 3695-M North 126th Street
Telephone Number: 414-790-1974

City, State, Zip Code: Brookfield, WI 53005

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected
District/County
Reviewer/Inspector
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Milwaukee

____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W

(If Applicable)

____ Gov't Lot ____ Grid Number

Grid Location

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: Fox Point, WI

City, Village

(2) FACILITY NAME Dryclean USA #82

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable): B-8

WI Unique Well No.

Reason For Abandonment: borehole

Date of Abandonment: 4/12/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 4/12/99

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) 8.00 Casing Diameter (ins.) ____
(From groundsurface)

Casing Depth (Ft.) ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: none utilized

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	8.0	1/3 bag	

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work: McLaren/Hart Environmental Engineering

Signature of Person Doing Work: George Bayer
Date Signed: 4/29/99

Street or Route: 3695-M North 126th Street
Telephone Number: 414-790-1974

City, State, Zip Code: Brookfield, WI 53005

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Milwaukee

____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W

(If Applicable)

____ Gov't Lot ____ Grid Number

Grid Location

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: Fox Point, WI

City, Village

(2) FACILITY NAME Dryclean USA #82

Original Well Owner (If Known)

Present Well Owner

Street or Route

City, State, Zip Code

Facility Well No. and/or Name (If Applicable): B-9

WI Unique Well No.

Reason For Abandonment: borehole

Date of Abandonment: 4/12/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date): 4/12/99

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) 20.00 Casing Diameter (ins.) ____
(From groundsurface)

Casing Depth (Ft.) ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: none utilized

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	1/2 bag	

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work: McLaren/Hart Environmental Engineering

Signature of Person Doing Work: George Bayn
Date Signed: 4/29/99

Street or Route: 3695-M North 126th Street
Telephone Number: 414-790-1974

City, State, Zip Code: Brookfield, WI 53005

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected
District/County
Reviewer/Inspector
Follow-up Necessary

DNR/COUNTY

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8606
TDD 414-263-8713

April 19, 1999

BRRTS# 02-41-217871
Facility ID#: 241285440

Spic and Span, Inc.
4301 N Richards Street
Milwaukee, WI 53212

SUBJECT: Reported Contamination at 8783 N. Port Washington Rd.

On March 17, 1999, George Bayer of McLaren Hart notified the Department of Natural Resources that contamination been detected in the soil at the site named above.

Based on the information submitted to the Wisconsin Department of Natural Resources (WDNR), we believe you are responsible for restoring the environment at the referenced site under Section 292, Wisconsin Stats., known as the hazardous substances spills law. Utilizing information submitted to the Department, this case has been assigned an unknown ranking due to the lack of information concerning soil and groundwater contamination.

WDNR Southeast Region Prioritization and Scoring Policy

Due to the WDNR workload, it is necessary to rank all contamination cases for review priority. Lower priority cases do not have assigned project managers, however, responsible parties are required to proceed with investigation and clean-up efforts. Until a priority has been assigned to this site, you should proceed with the required response work, submitting all plans and reports, along with status reports, to this office. The WDNR will notify you if your site will receive active oversight.

Your responsibilities include investigating the extent of the contamination and then selecting and implementing the most appropriate remedial action. Enclosed is information to help you understand what you need to do to ensure your compliance with the spills law.

The purpose of this letter is threefold: 1) to describe your legal responsibilities, 2) to explain what you need to do to investigate and clean up the contamination, and 3) to provide you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the Department of Natural Resources.

Legal Responsibilities:
Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11 (3) Wisconsin Statutes, states:

- RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions
- necessary to restore the environment to the extent practicable and minimize the harmful

effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Codes chapters NR 700 through NR 728 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

Steps to Take:

The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. These are the first four steps to take:

1. By June 2, 1999, please submit written verification (such as a letter from the consultant) that you have hired an environmental consultant. You will need to work quickly to meet this timeline.

2. By July 14, 1999, your consultant must submit a workplan and schedule for the investigation. The consultant must follow the DNR administrative codes and technical guidance documents. Please include with your workplan a copy of any previous information that has been completed (such as an underground tank removal report or a preliminary excavation report).

3. Please inform DNR of what is being done at your site. Submittal requirement timelines depend on the contaminants at the site. As described in s. NR 700.11, if the site meets criteria for a "simple site", progress reports must be submitted semi-annually, beginning 6 months from the initial notification date. If the site meets criteria for a "complex site", the site investigation report and a draft remedial options report must be submitted to DNR within 30 days of completion of both reports. Your consultant must clearly document the extent and degree of soil and groundwater contamination and submit a proposal for cleaning it up.

4. For complex sites, per s. NR 724.13(3), you or your consultant must provide a brief report at least every 90 days, starting after the remediation system begins operation. The reports should summarize the work completed since the last report. Quarterly reports need only include one or two pages of text, plus any relevant maps and tables. However, should conditions at your site warrant, we may require more frequent contacts with the Department.

Due to the number of contaminated sites and our staffing levels in DNR's Southeast Region, we will be unable to provide workplan approvals for investigations or remedial actions. To maintain your compliance with the spills law and chs. NR 700 through NR 728, do not delay the investigation and cleanup of your site by waiting for DNR response. We have provided detailed technical guidance to environmental consultants. Your consultant is expected to know our technical procedures and administrative codes and should be able to answer your questions on meeting cleanup requirements.

Your correspondence and reports regarding this site should be sent to:

Program Assistant
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
Box 12436
Milwaukee WI 53212

Unless otherwise requested, please send only one copy of plans and reports. To speed processing, correspondence should reference the BRRTS and FID numbers shown at the top of this letter.

Thank you for your cooperation.

Sincerely,

P. Chung

Pat Chung
Program Specialist
414-263-8688

cc: George Bayer, McLaren Hart, W239 N2890 Pewaukee Rd., WI 53072

FID # 241285446 BRRTS # 0241238__ INITIALS ___ ERP

___ LUST ___ ERP ___ other Spill ___ date received 4-5-99

SITE RANKING

___ **High priority (DNR CASE)**
- ___ Presence of a hazardous substance other than petroleum from a petroleum product storage tank system.
- ___ Contamination to an area of exceptional environmental value where the discharge would pose a greater than normal threat.
- ___ Confirmed groundwater contamination where any compound detected is equal to or greater than an established enforcement standard.

___ **Medium priority (COMM CASE)**
- ___ No evidence of contamination by a hazardous substance other than the petroleum product, which was discharged from the petroleum storage tank system; **and**
- ___ No confirmed groundwater contamination at or above the enforcement standard.

___ **Low priority (COMM CASE)**
- ___ only petroleum contamination and no threat to groundwater , **and**
- ___ No evidence of a hazardous substance other than the petroleum product discharged from the petroleum product storage tank system.

___ **Clean closure** (NO DRO/GRO detected)

✓ **Unknown**

IMPACTS (p=potential; k= known)
- ___ fire/explosion threat
- ___ contaminated private wells (#____)
- ___ contaminated public well
- P groundwater contamination
- K soil contamination
- ___ surface water contacts
- ___ free product
- ___ storm sewer contamination
- ___ sanitary sewer contamination
- ___ air contamination
- ___ direct contact
- ___ concrete/asphalt
- ___ contained/recovered
- ___ other: ____________

SUBSTANCES	**#tanks, containers**	**size**
___ leaded gas		
___ unleaded gas		
___ diesel		
___ fuel oil		
___ unknown hydrocbn		
___ waste oil		
___ metals		
___ RCRA haz waste		
___ VOCs		
✓ Chlorinated Solvent PCE	unk	unk
___ PCBs		
___ foundry sand		
___ misc. fill		
___ pesticides		
___ leachate		
___ PAHs/SVOCs		
___ oil and grease		
___ other		

FEDERAL ELIGIBILITY

___ **YES** ___ **NO** ✓ **UNKNOWN**

^ ___ Tanks 110 gallons or more qualify, **unless** they are
- ^ ___ Farm and residential tanks of 1,100 gallons or less, used for storing motor fuel for non-commercial purposes ***OR***
- ^ ___ Used to store heating oil for consumptive use on premises where stored ***OR***
- ^ ___ Closed properly prior to 12/22/88

3/3/99

EQ
[illegible]

Letter Of Transmittal

Type of Submittal:
___LUST ___ERP ___VPLE ✓ other (describe):
SPILL Notification

To: Program Assistant/BRR Program
Wisconsin Dept. of Natural Resources Box 12436
2300 N. Dr. Martin Luther King Jr. Dr.
Milwaukee, WI 53212

FROM: Name ~~McLaren/Hart~~ B. Schneider / G. Boyer
Company McLaren/Hart
Address W239 N2890 Pewaukee Road, Unit D
Pewaukee, WI 53707
Phone (414) 523-2040
Date 4-5-99

FOR: Site Name Praxair USA, Facility #82
Address 8783 N. Port Washington Rd
Fox Point, WI
FID# 241 285 440
BRRTS# ~~0800~~ NON Assigned

Check type(s) of documents enclosed. Submittals are tracked & filed based on information you provide. Include FID & BRRTS numbers assigned to this site. Identify the intent of document(s) you are submitting in order to speed processing. Please attach required fees to this form.

Are you requesting Department Review? Y☐ N☑

√	TYPE OF DOCUMENT/REPORT	FEE	DNR CODE (office use only)
✓	Notification of Release	none	01
✓	Tank Closure/Site Assessment *where release(s) have been detected**	none	33
✓	Site Investigation Workplan	$500 if review is requested	35, 135~
	Site Investigation Report __ groundwater impacts above ES __ no groundwater impacts or gw impacts below ES *(if petroleum constituents only, case will be transferred to Department of Commerce)*	$750 if review is requested	37, 137~, 76, 96
	Request to Transfer Case to Department of Commerce	none	76
	Off-Site Determination Request	$500 mandatory	638~
	Remedial Action Options Plan	$750 if review is requested	39, 143~
	NR 720.19 Site Specific Clean-Up Goal Proposal	$750 if review is requested	67, 68~
	NR 718 Landspreading Request	$500 mandatory	61~
	"Notification to Treat or Dispose" of Contaminated Soil/Water	none	99
	Injection/Infiltration Request	$500 mandatory	63~
	Quarterly Report or Update	$500 if review is requested	43, 43~
	O & M Form 4400-194	$300 if review is requested	92, 192~
	Remedial Action Options Report	$750 if review is requested	41, 41~
	Closure Review Request	$750 mandatory	79~
	NR700.11 Simple Site Closure Request	$250 mandatory	183~
	"Draft Deed Affidavit" or "Restriction required for close-out"	none	99
	"Well Abandonment Forms"	none	99
	Remedial Design Report	$750 if review is requested	147, 148~
	Construction Documentation Reports	$250 if review is requested	151, 152~
	Long Term Monitoring Plan	$300 if review is requested	24, 25~
	Voluntary Party Liability Exemption (VPLE) Application	$250 mandatory	662
	VPLE "Phase I/II Assessments" or "Additional Reports"	computed hourly	99
	Tax Cancellation Agreement	$500 mandatory	654
	Negotiated Agreement	$1000 mandatory	630
	Lender Assessment	$500 mandatory	686
	Negotiation and Cost Recovery (municipalities only)	fee for each service, mandatory	90~
	General Liability Clarification Request	$500 mandatory	684
	Lease Letter Request - Single Property	$500 mandatory	646
	Lease Letter Request -Multiple Properties	$1000 mandatory	646
	Request for Other Technical Assistance	$500 mandatory	90~
	Other (please describe)_____		

* Closure reports for sites where no releases have been detected should be sent directly to "Clean Closures" c/o DNR Remediation & Redevelopment Program, P.O. Box 7921, Madison WI 53707

Remarks:

McLaren Hart, Inc.

241285440

02-41-21871

March 17, 1999

Mr. Walt Ebersohl
Wisconsin Department of Natural Resources
P.O. Box 12436
Milwaukee, WI 53212

Re: Dryclean USA
8783 North Port Washington Road, Fox Point, WI
Notification of Spill - Site Investigation Report/Workplan

Dear Mr. Ebersohl:

A Site Investigation Report and Workplan for the Dryclean USA property referenced above is attached for your records. The report serves as notification of a spill. Feel free to contact either Brian Schneider or George Bayer if you have any questions or require additional information.

Sincerely,

McLAREN/HART ENVIRONMENTAL ENGINEERING CORPORATION

Brian Schneider, PE
Senior Engineer

George J. Bayer
Associate Geoscientist

O:\COMMON\Spic&Span\sscvrltr82.wpd

cc: Mark Thimke, Esq. - cover letter with attachment
Mr. Robert Miller - cover letter with attachment

W239 N2890 Pewaukee Road, Unit D, Pewaukee, WI 53072 (414) 523-2040 FAX (414) 523-2059

SITE INVESTIGATION WORK PLAN

DRYCLEAN USA
FACILITY #82
8783 NORTH PORT WASHINGTON ROAD
FOX POINT, WISCONSIN

Prepared for:

Mr. Robert Miller
Spic and Span, Inc.
4301 North Richards Street
Milwaukee, WI 53212

Prepared by:

McLaren/Hart
Environmental Engineering Corporation
W239 N2890 Pewaukee Road, Unit D
Pewaukee, Wisconsin 53072

FID: 241285440

March 17, 1999

TABLE OF CONTENTS

ATTACHMENTS

SITE INVESTIGATION WORK PLAN

DRYCLEAN USA
FACILITY #82
8783 NORTH PORT WASHINGTON ROAD
FOX POINT, WISCONSIN

1.0 INTRODUCTION

1.1 BACKGROUND

The following report summarizes proposed investigation activities to be performed in or adjacent to the Dryclean USA facility located in the Riverpoint Village Shopping Center. These activities will be performed as a follow-up to the investigation activities previously performed by McLaren/Hart on October 19, 1998 and documented in the attached Site Investigation Results report dated November 2, 1998. A site location diagram is presented in Figure 1.

Dryclean USA is a subsidiary of Spic and Span, Inc. and the Dryclean USA facility space is leased from the North Shore Centers Partners, the property owner. The Shopping Center was constructed in 1981. Dryclean USA has occupied the space and conducted dry cleaning operations since January 1, 1981. The dry cleaning machine was placed in a containment structure in 1995.

On October 19, 1998, McLaren/Hart performed three soil boring tests (B-1 to B-3) in the immediate vicinity of the dry cleaning machine. Soil samples were collected from each boring from approximately 0.5 to 2.5 and 4.5 to 6 feet below ground surface (bgs). The samples were analyzed for tetrachloroethylene (PCE) and its potential breakdown products. Generally, one sample was obtained from fill soils beneath the concrete slab and one sample was obtained from native soils (or fill) found at a greater depth. Laboratory analyses were performed by Great Lakes Analytical using U.S. EPA SW-846 Method 8021. PCE concentrations ranged from "no detect" to 210 µg/kg. No PCE breakdown products were detected above the laboratory detection limit of 25 µg/kg. Groundwater was not encountered during this investigation. Additional details are included in the attached Site Investigation Results report.

On December 11, 1998, Geraghty and Miller performed three soil boring tests in the immediate vicinity of the dry cleaning machine and two soil boring tests west of the Dryclean USA facility building. Soil samples were analyzed for volatile organic compounds and were collected from approximately 0 to 4 feet bgs. PCE concentrations ranged from 730 µg/kg to 1,000 µg/kg in the vicinity of the dry cleaning machine. PCE was detected, in the area west of the facility building, below the Limit of Quantitation at concentrations estimated to be within the range of 34 µg/kg to 47 µg/kg. These results are being verifyed by Geraghty and Miller. Groundwater was not encountered during this investigation. The Geraghty and Miller report is attached.

1.2 SITE LOCATION AND OWNERSHIP

The Property is located in the NW 1/4 of the NE 1/4 of Section 8, Township 8 North, Range 22 East. The address is 8783 North Port Washington Road. The Property is owned by:

North Shore Centers Partners

The responsible party for the site investigation:

Spic and Span, Inc.
4301 North Richards Street
Milwaukee, WI 53212
Attention: Mr. Robert Miller
(414) 964-5050

1.3 CONSULTANTS AND CONTRACTORS

The site investigation consultant is:

McLaren/Hart Environmental Engineering Corporation
W239 N2890 Pewaukee Road, Unit D
Pewaukee, Wisconsin 53707
Attention: Mr. Brian W. Schneider P.E.
(414) 523-2040 - phone
(414) 523-2059 - fax

As part of the investigation, the following service/commodity providers will conduct activities associated with the investigation:

Soil Probe Services

On-Site Environmental Services, Inc.
P.O. Box 280
Sun Prairie, WI 53590
(608) 837-8992

Laboratory Analytical Services

Great Lakes Analytical
1380 Busch Parkway
Buffalo Grove, IL 60089
(847) 808-7766

2.0 OBJECTIVES AND PROJECT SCOPE

2.1 PROJECT SCOPING

To the extent practical, the scope of the project was defined in consideration of the criteria listed in NR 716.07, as follows:

- Site Use. The Dryclean USA facility is located in the River Point Village Shopping Center and has operated as a dry cleaning facility at this location since January 1, 1981.

- Type and Amount of Impact. Based on investigations performed to date, soils in the immediate vicinity of the dry cleaning machine are impacted with PCE. PCE concentrations in soil samples collected from the vicinity of the dry cleaning machine ranged from 91 to 1,000 ug/kg.

- Environmental Media Potentially Affected. PCE impacts are estimated to be predominately within the coarse fill soils and shallow silty clay soils underlying the Dryclean USA facility.

- Need for Access Permission. The Riverpoint Village Shopping Center owns the property on which the impacts were found. Based on prior investigation findings, the impacts are believed to be limited to coarse fill soils in the vicinity of the dry cleaning machine and may extend to adjacent tenant spaces.

  Based on existing data, no off-site impacts are suspected and off-site access permission will not be required. Access permission may be required from both the adjacent tenants and the property owner (see Figure 2).

- Potential Receptors. No groundwater impacts have been identified at the site. Groundwater was not observed during the previous investigation.

- Significant Resources. Based on existing data, the site has not affected and does not present a threat to any threatened or endangered species, sensitive habitats, wetlands, resource waters, or historical or archeological sites.

- Potential Remedial Actions. Potential remedial actions, if required, may include natural attenuation, bioremediation, soil vapor extraction and/or capping and monitoring.

The additional information needed to determine an appropriate remedial response includes, the vertical and lateral boundaries of affected soil in the vicinity of the dry cleaning machine and other data needed to determine a site-specific cleanup approach.

2.2 SITE PHYSIOGRAPHY/SAMPLING STRATEGY

The sampling strategy was developed to identify the boundaries of soil impact, based on the known site conditions and characteristics. The sampling locations were selected based on data obtained from prior investigations and the following site characteristics:

- Site Topography. Based on the United States Geological Survey (USGS), Thiensville, Wisconsin, 7.5 minute topographic map (1976), the topography in the immediate vicinity of the site slopes gently downward to the southwest from the site.

- Surface Water Drainage. Storm water along the site is anticipated to generally drain northward along the curb side drainage associated with the parking lot of the shopping center. The curb side drainage discharges to the storm sewer system. Storm water collecting on the roof of the building is conveyed by roof drains to the storm sewer as well.

- Site Geology/Hydrogeology. The surface soils (less than five feet deep) have been classified by the U.S. Department of Agriculture, Soil Conservation Service (1971). The general soil association is the Kewaunee - Manawa Association with site-specific soils consisting of Kewaunee Silt Loam Series. The general soil association is described as well-drained to poorly drained soils with a subsoil of clay and silty clay that formed in areas of thin loess and silty clay glacial till on moraines and in depressed areas.

  The Kewaunee Silt Loam consists of moderately well-drained , silty loam soils that have a clay loam subsoil underlain by calcareous silty clay glacial till. The Kewaunee soils have slow permeability and high available water capacity.

  As noted, the site soils formed in areas of glacial till. The glacial till deposits in the area of the subject property vary between 100 to 200 feet thick and consist of unsorted, unstratified, unconsolidated mixtures of clay, silt, sand, pebbles, cobbles and boulders. The glacial till overlies the Niagara Dolomite bedrock which is up to 450 feet thick. The glacial deposits, as well as the bedrock, are considered to be groundwater aquifers.

3.0 INVESTIGATION SCOPE OF WORK

Based on the information obtained during the site investigation performed by McLaren/Hart on October 19, 1998, and the investigation performed by Geraghty and Miller on December 11, 1998, and summarized in the report dated January 4, 1999, McLaren/Hart recommends the following approach to assess the extent of the subsurface impacts.

Assuming that significant subsurface structures are not present in the vicinity of the dry cleaning machine, four borings (B-4 through B-7) will be conducted and soil samples collected for laboratory analyses from 0.5 to 2.5 feet bgs and 8 to 10 feet bgs, if possible. The purpose of these borings is to evaluate the depth and area of PCE impacts in the vicinity of the dry cleaning machine machine. An additional boring (B-8) will be conducted adjacent to the dry cleaning machine and a soil sample collected from 8 to 10 feet (or deeper, if possible).

Three borings (B-9 through B-11) will be conducted west of the building and soil samples will be collected for laboratory analysis from 2 to 4 feet bgs and 6 to 8 feet bgs. The purpose of these borings is to verify the presence of PCE as previously detected by Geraghty and Miller.

Boring locations are as follows:

- **B-4** Located approximately 10 feet south of B-3.
- **B-5** Located approximately 20 feet west of the dry cleaning machine.
- **B-6** Located approximately 29 feet east of the dry cleaning machine.
- **B-7** Located approximately 16 feet north of the dry-cleaning machine, within the Cousin's Subs facility. If access to this location is denied, the boring will be performed in the adjacent facility (store) to the north.
- **B-8** Located approximately 2 feet southwest of the dry cleaning machine
- **B-9** Located approximately 2 feet west of the building's northwest corner.
- **B-10** Located approximately 2 feet west of the building's southwest corner.
- **B-11** Located approximately 15 feet west of the building.

The actual depths from which the samples are collected will depend on observed soil characteristics. The approximate soil boring locations are depicted on Figure 2.

3.1 FIELD METHODS AND LABORATORY ANALYSES

3.1.1 Soil Sample Collection and Handling

Soil sampling will be performed using soil probe techniques. Upon collection, the soil will be classified with respect to USGS classification, color, moisture content, evidence of impact (discoloration and odor) and other observations. When practical, ASTM methods D-2487 and D-2488 will be utilized. The information will be recorded in a bound field notebook used to record daily activities.

As soon as possible following sample collection, the soil samples designated for laboratory analysis will be transferred to appropriate laboratory-provided containers. A fresh pair of latex (or similar) gloves will be used during the handling of each sample to minimize the potential for cross contamination. The samples will be containerized in pre-tarred 60-ml glass jars with Teflon® septa. Approximately 25 to 30 grams of sample will be placed in the jar and preserved with laboratory-provided purge-and-trap grade methanol. Soil samples intended for analysis of dry weight will be contained in HDPE jars (provided by the laboratory) or resealable bags.

The sample jars will be labeled with the sample location identification, depth of sample, date of sample collection and intended analysis. The sample jars will then be placed in resealable plastic bags and packed in an iced, insulated container. A chain-of-custody form will be completed each day, and will accompany each container of samples from the site to the laboratory. Samples will be transported from the facility to the laboratory via overnight courier.

3.1.2 Decontamination Procedures

The auger and all down-hole equipment will be decontaminated before each boring location using an Alconox or TSP solution and rinsed in known-clean water (distilled, deionized or municipal potable). Any sampling tools (i.e., spoons, knives, spatulas, etc.) will also be cleaned in a solution of Alconox or TSP solution and rinsed in known-clean water prior to collection of each sample. A clean pair of latex, or equivalent, gloves is used for each sample to minimize the potential for cross-contamination.

3.1.3 Laboratory Analysis

Laboratory analyses will be performed by Great Lakes Analytical using Wisconsin-modified U.S. EPA SW-846 Method 8021, for the target list compounds: PCE 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), trans-1,2-dichloroethene, 1,1,2-trichloroethane, 1,1-dichlorethane, 1,2-dichloroethane, and vinyl chloride. The target list is defined to identify the compound used at the facility (PCE), its potential breakdown products and related compounds.

3.2 QUALITY ASSURANCE/QUALITY CONTROL METHODS

The following quality assurance/quality control measures will be implemented during the site investigation activities.

- Decontamination procedures and measures to minimize the potential for cross-contamination of samples will be followed as specified in section 3.1.2.
- All site activities will be recorded in a bound field notebook (see Field Documentation section below).
- Chain-of-custody procedures will be followed as specified in section 3.1.2.

3.2.1 Replicate and Blank Samples

One methanol blank will be sampled on-site. The samples will be shipped on ice; therefore, no temperature blanks are anticipated to be required. If no solid ice is present in the cooler upon receipt by the laboratory, the melt waste will be measured for temperature.

3.3 INVESTIGATIVE WASTE MANAGEMENT

All investigative wastes generated during site activities, including soil probe spoils, sampling gloves and used sample jars not intended for laboratory analysis, will be contained in labeled, 55-gallon drums. The drums will be stored on-site, out of the way of daily site activities, pending disposal.

3.4 FIELD DOCUMENTATION

All site activities will be documented in a bound field notebook. Included in the daily documentation are:

- Procedures for sampling and other routine activities associated with the site investigation;
- Field observations; and
- Chronological log of site activities

3.5 SITE HEALTH AND SAFETY

The protection of site personnel and the general public is a primary concern. All reasonable measures will be taken to protect the health and safety of the personnel and general public. A site Health and Safety Plan that meets or exceeds the standards found in 29 CFR 1910.120 will be prepared and followed during site activities. All project personnel and subcontracted

personnel are trained in hazardous materials handling and have appropriate on-site training and experience. During site activities, the Health and Safety Officer (HSO) may halt work if, in the HSO's opinion, unsafe conditions are present. Work will not continue until the unsafe conditions have been rectified to the satisfaction of the HSO.

3.6 REPORTING

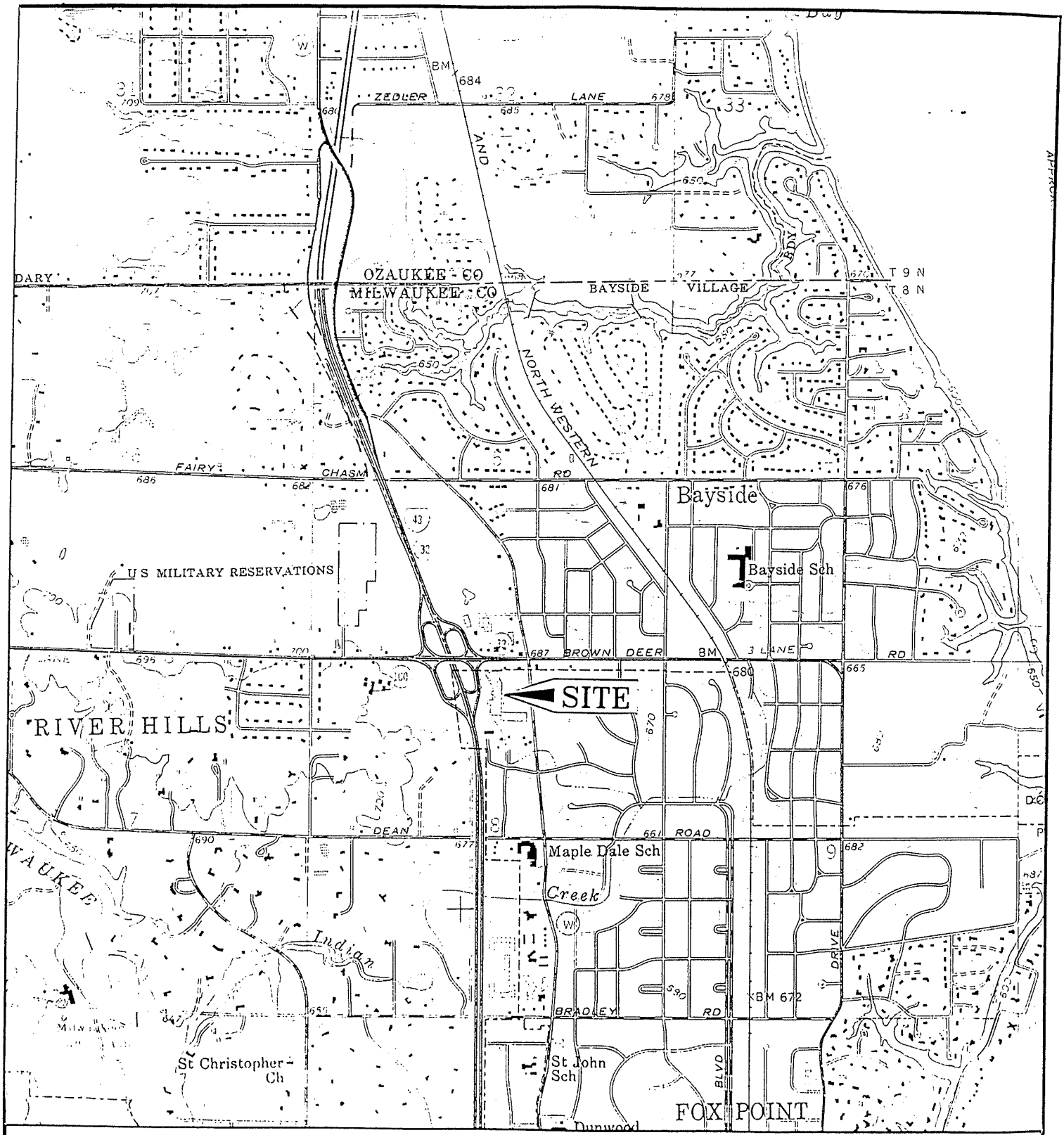
Upon receipt of the laboratory results, if the boundaries of impact have been sufficiently defined, a report detailing the investigative results will be prepared and submitted to the WDNR. Two copies of the report will be submitted. The report will include:

- The WDNR's identification number for the Dryclean USA facility investigation (if issued) and the date of submittal;
- An executive summary summarizing the investigative results, conclusions and, if necessary, recommendations for further site work;
- The project title and purpose;
- An identification of the current property owner or other parties, as appropriate;
- An identification of the consulting firm and all subcontractors performing work associated with the investigation;
- An assessment of the potential for impacts at the site to present a public health threat and a summary of any response actions at the facility relating to the investigation;
- Investigative methods; and
- Investigative results, including in-field observations, laboratory results, discrepancies between the field observations and laboratory results, and data interpretations.

4.0 SCHEDULE

Upon approval of this Work Plan by Spic and Span, Inc., a copy will be submitted to the WDNR. The site work will begin following Digger's Hotline clearance, and clearance by North Shore Centers Partners and Cousins Subs to proceed. Site work is anticipated to require one day. Laboratory results are generally received within three weeks of sample submittal. The investigation is anticipated to be completed within six weeks following receipt of the laboratory reports. Therefore, the final report is anticipated to be completed

within ten weeks of initiation of field activities, assuming additional investigation is not required.



USGS 7.5 minute series Thiensville, Wisconsin topographic quadrangle dated 1958, photorevised 1976

N
W E
S

APPROXIMATE SCALE

0 1000 2000 3000 4000 5000 feet

McLaren Hart ENVIRONMENTAL ENGINEERING CORPORATION

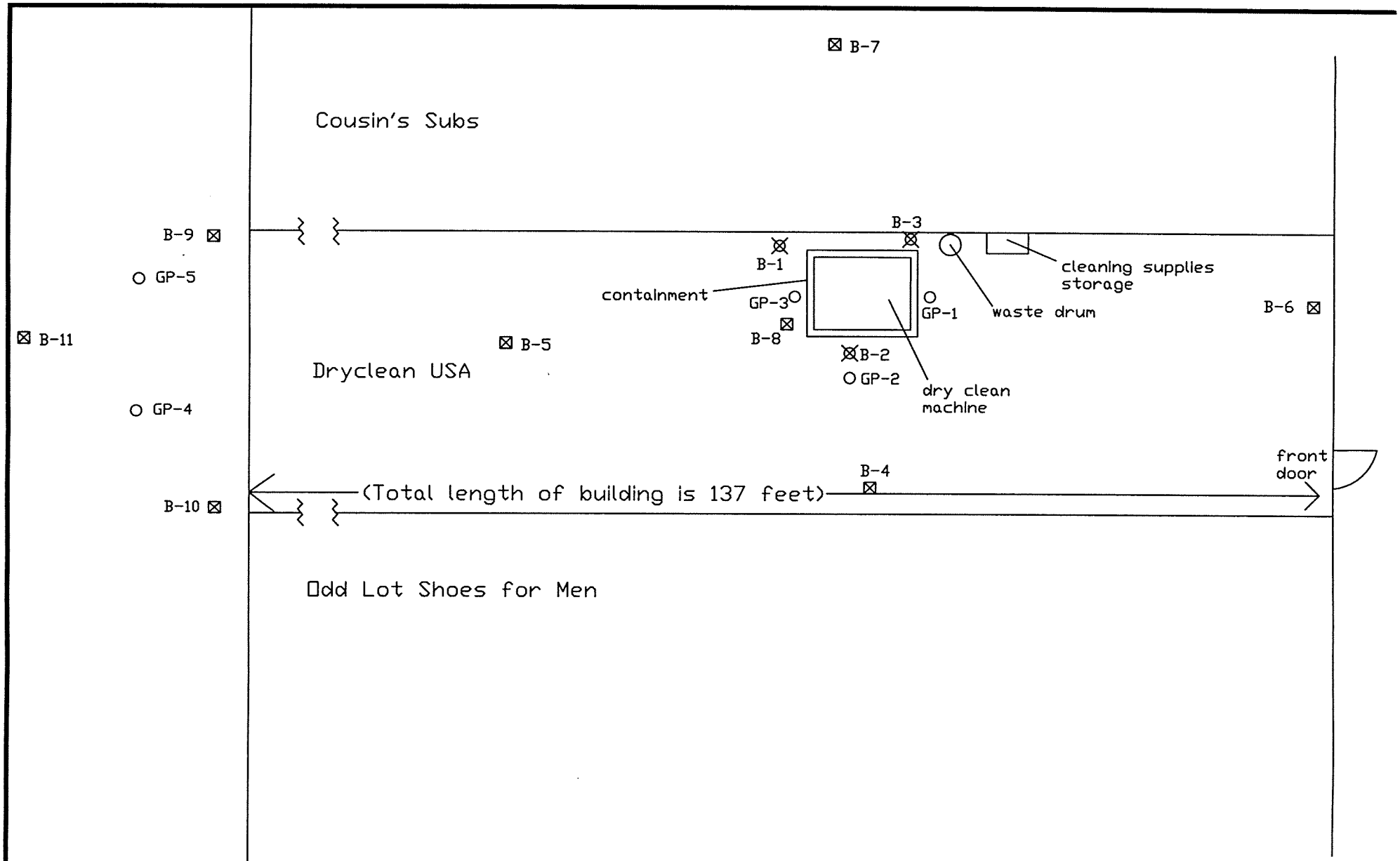
DRWN: MED	CHK'D: GJB
JOB#: 10080.4135.001.001	DATE: 10-14-98

FIGURE 1

SITE LOCATION MAP

Dryclean USA (store # 82)
8783 N. Port Washington Rd, Fox Point, WI

DWG store 82



McLaren Hart® ENVIRONMENTAL ENGINEERING CORPORATION

DRWN: MED	CHK'D: GJB
JOB#: 10080.4135.001.001	DATE: 10-30-98

APPROXIMATE SCALE
0 5 10

LEGEND
- ⊠ Boring Location
- ⊠ Proposed Boring
- ○ Geraghty & Miller

FIGURE 2
Boring Locations
Dryclean USA (store # 82)
8783 N. Port Washington Rd.
Fox Point, WI

Dwg: 82

March 17, 1999

Mr. Bob Miller
Spic and Span, Inc.
4301 North Richards Street
Milwaukee, WI 53212-1097

Re: Site Investigation Results
Dryclean U.S.A. Facility #82
8783 North Port Washington Road, Fox Point, Wisconsin
McLaren/Hart Project No.: 10080.4135.001-001

Dear Bob:

McLaren/Hart Environmental Engineering Corporation (McLaren/Hart) conducted a site investigation on behalf of Spic and Span, Incorporated at the Dryclean U.S.A. facility located at 8783 North Port Washington Road, Fox Point, Wisconsin. Soils beneath the subject facility were investigated to determine if site dry cleaning operations have potentially contributed to subsurface impacts. The site investigation scope was outlined in our Site Investigation Workplan dated October 13, 1998.

The facility is located in a strip mall. Cousin's Subs occupies the tenant space immediately to the north while Odd Lot Shoes For Men occupies the tenant space immediately to the south. The strip mall was constructed in 1981. A site location diagram is presented in Figure 1.

Scope and Methods

On October 6, 1998, McLaren/Hart personnel visited the site to select boring locations. The areas below the loading door and the filter changing equipment of the dry cleaning machine were identified as having the greatest potential for impact. A third boring location was selected opposite these, at the corner of the dry cleaning machine. Prior to any boring installation, Diggers Hotline was notified to ensure that buried facility utilities would not be encountered.

Sampling was conducted on October 19, 1998 using soil probe techniques. Borings were advanced to approximately 6 feet below ground surface (bgs) . Boring locations are presented in Figure 2. The following locations were sampled:

1. Northwest corner of dry cleaning machine (boring B-1);
2. Adjacent to dry cleaning machine loading door (boring B-2) ; and
3. Northeast corner of dry cleaning machine (boring B-3).

Upon sample collection, the soil was classified with respect to United States Geological Survey methods and observed for color, moisture content, and any evidence of impact, including discoloration and odor. The information was recorded in a bound field notebook used to record daily activities.

As soon as possible following sample collection, the soil samples selected for laboratory analysis were transferred to appropriate laboratory-provided containers. A fresh pair of latex (or similar) gloves were used during the handling of each sample to minimize the potential for cross contamination. The samples were containerized in laboratory-provided 60-ml glass jars with Teflon® septa. Twenty-five (25) to 35 grams of soil were placed in the jars and each sample was preserved in the field with laboratory-provided purge-and-trap grade methanol. The sample jars were labeled with the sample identification, depth, date of collection and intended analysis. The sample jars were then placed in resealable plastic bags and packed on ice, in an insulated container. A chain-of-custody form was completed each day, and accompanied each container of samples from the site to the laboratory.

Two soil samples from each soil boring location were submitted for laboratory analysis of tetrachloroethylene (PCE) and its potential breakdown products. Generally, one sample was obtained from fill soils beneath the concrete slab and one sample was obtained from native soils (or fill) found at a greater depth. Laboratory analyses were performed by Great Lakes Analytical using U.S. EPA SW-846 Method 8020. Target list compounds included: PCE, 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), trans-1,2-dichloroethene, 1,1,2-trichloroethane, 1,1-dichlorethane, 1,2-dichloroethane, and vinyl chloride. Great Lakes Analytical laboratory is certified by the Wisconsin Department of Natural Resources.

Results

Fill soils containing various amounts of sand, gravel and silt were encountered underlying the facility to a depth of approximately 1.0 feet bgs. Approximately 0.6 feet of fill soils were observed. Reddish brown silty clay with a trace of fine to coarse grained sand was observed beneath the fill soils. The soils were moist and no groundwater was observed. No staining or odors were observed during this investigation. Soil boring logs are presented in Attachment A.

PCE concentrations ranged from "no detect" to 210 µg/kg. No PCE breakdown products were detected above the laboratory detection limit of 25 µg/kg. A summary of the detected compounds and concentrations is provided in Table 1. The laboratory reports are included in Attachment B.

Conclusions and Recommendations

Although the PCE concentrations were relatively low (less than 210 µg/kg), the concentrations did not decrease with depth and confining clay soils were not encountered. Based on the analytical data, McLaren/Hart recommends additional investigation to determine the horizontal and vertical extent of PCE impacts beneath the Dryclean U.S.A. facility.

Additionally, Wisconsin Administrative Code NR 700 specifies reporting requirements for owners/operators that discover a hazardous substance release. McLaren/Hart recommends that legal counsel evaluate their reporting requirements, if any, per the referenced regulation.

March 17, 1999

We look forward to be of service to you in this matter. Please contact me if you have any questions.

Sincerely,

McLAREN/HART ENVIRONMENTAL ENGINEERING CORPORATION

George J Bayer

Brian W. Schneider, P.E.
Senior Engineer

George J. Bayer
Associate Geoscientist

Figures	1	Site Location Map
	2	Soil Boring Location Map
Tables	1	Soil Analytical Results
Attachments	A	Soil Boring Logs
	B	Laboratory Analytical Reports

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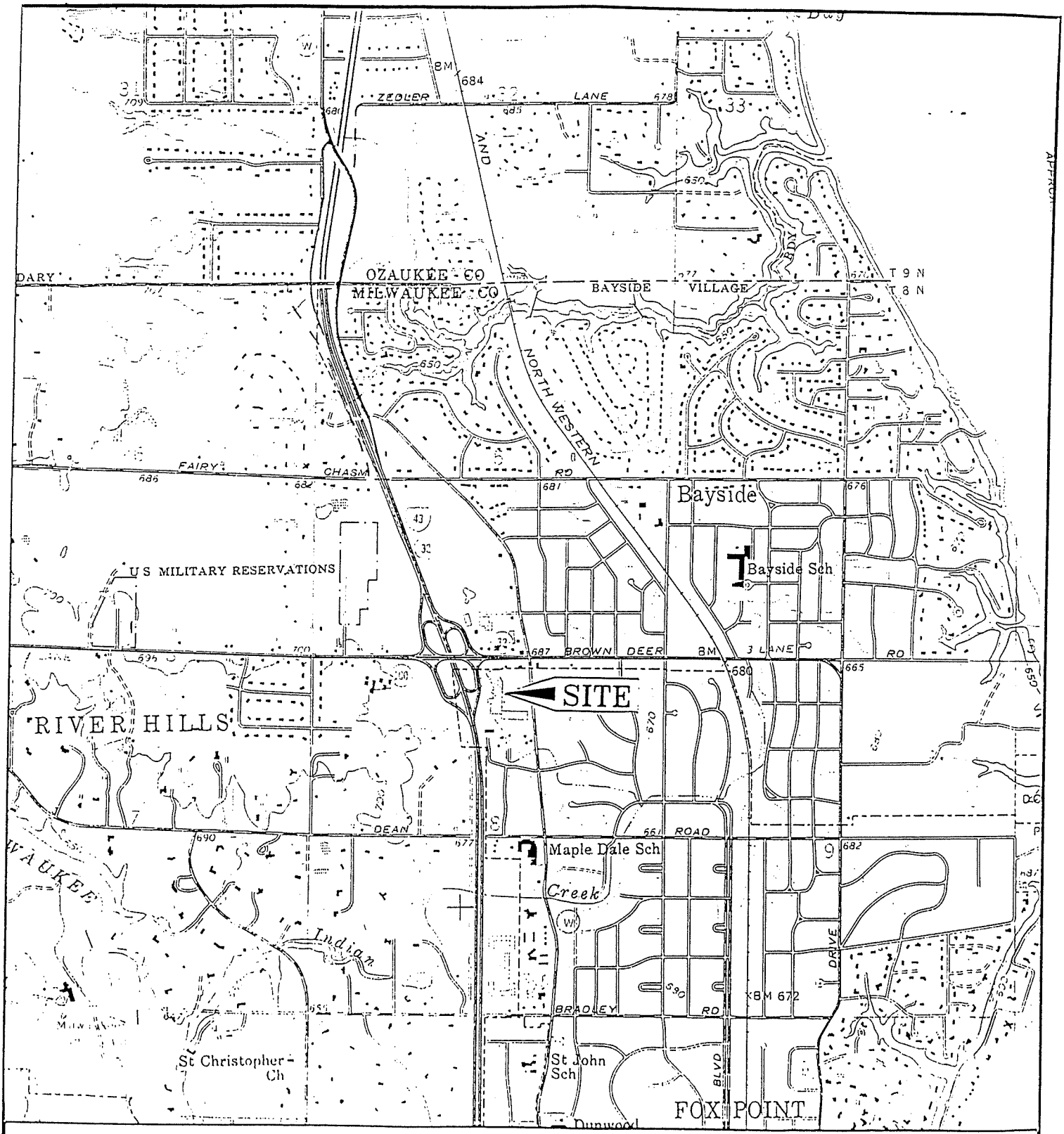

USGS 7.5 minute series Thiensville, Wisconsin topographic quadrangle dated 1958, photorevised 1976

N
W E
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APPROXIMATE SCALE

0 1000 2000 3000 4000 5000 Feet

McLaren Hart ENVIRONMENTAL ENGINEERING CORPORATION

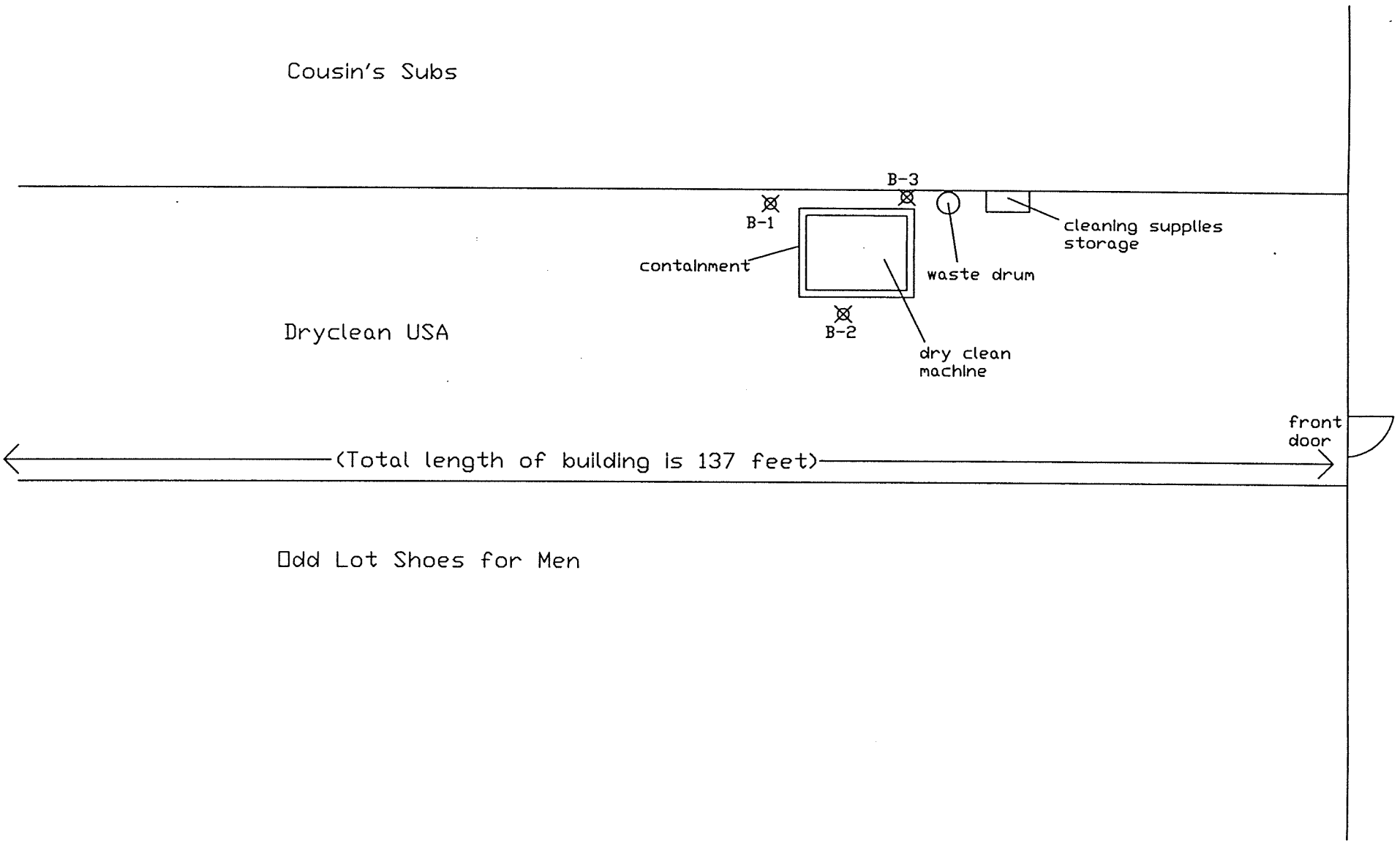
DRWN: MED	CHK'D: GJB
JOB#: 10080.4135.001.001	DATE: 10-14-98

FIGURE 1

SITE LOCATION MAP

Dryclean USA (store # 82)
8783 N. Port Washington Rd, Fox Point, WI

DWG: store 82



McLaren Hart ENVIRONMENTAL ENGINEERING CORPORATION

DRWN: MED	CHK'D: GJB
JOB#: 10080.4135.001.001	DATE: 10-30-98

APPROXIMATE SCALE
0 5 10 feet

LEGEND
⊠ Boring Location

N W E S

FIGURE 2
Boring Locations
Dryclean USA (store # 82)
8783 N. Port Washington Rd.
Fox Point, WI

Dwg: 82

Table 1
SOIL ANALYTICAL RESULTS
Dryclean USA Facility #82
8783 North Port Washington Road
Fox Point, Wisconsin

All samples analyzed for Volatile Organic Compounds-special list (VOCs Method 8021).
Concentrations in Micrograms per Kilogram unless otherwise indicated

		Dryclean USA Facility #82					
	Sample Identification	B-1	B-1	B-2	B-2	B-3	B-3
	Depth (ft)	0.5-2.5	4.5-6.0	0.5-2.5	4.5-6.0	0.5-2.5	4.5-6.0
	Date Collected	10/20/98	10/20/98	10/20/98	10/20/98	10/20/98	10/20/98
ANALYTES:	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
	Trichloroethene	ND	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	ND	200	210	110	ND	91
	Vinyl chloride	ND	ND	ND	ND	ND	ND

Notes:
Only positive detection (i.e., > practical quantitation limit) shown.
ND: Not detected above practical quantitation limit.
NA: Not analyzed

SOIL BORING LOG INFORMATION

McLaren Hart®

ENVIRONMENTAL ENGINEERING CORPORATION

Facility/Project Name	Geologist	Boring Number
Dryclean U.S.A. Facility #82	George Bayer	B-1

Boring Drilled By (Firm Name and Name of Crew Chief)	Start Date	Completion Date	Drilling Method
On-Site Environmental - Denny Totzke	10/19/98	10/19/98	Soil probe

County	Civil Town/City/Village	Borehole Diameter
Milwaukee	Fox Point	1.5"

Sample Number and Type	Sample Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description and Geologic Origin for Each Major Unit	USCS	PID (IU)	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P200	RQD/Comments
			0	.4' Concrete slab								
1	24		1	Fill, fine to coarse grained sand, trace silt and gravel, light brown, moist.								
2	24		2	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist, firm to very hard.	CL							
3	18		3									
			4									
			5									
			6									
			7	(Probe refusal at 6').								
			8									
			9									
			10									
			11									
			12									
			13									
			14									
			15									
			16									
			17									
			18									
			19									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	McLaren/Hart, Inc.

SOIL BORING LOG INFORMATIO

McLaren Hart®

ENVIRONMENTAL ENGINEERING CORPORATION

Facility/Project Name	Geologist	Boring Number
Dryclean U.S.A. Facility #82	George Bayer	B-2

Boring Drilled By (Firm Name and Name of Crew Chief)	Start Date	Completion Date	Drilling Method
On-Site Environmental - Denny Totzke	10/19/98	10/19/98	Soil probe

County	Civil Town/City/Village	Borehole Diameter
Milwaukee	Fox Point	1.5"

Sample Number and Type	Sample Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description and Geologic Origin for Each Major Unit	USCS	PID (IU)	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P200	RQD/Comments
			0	.4' Concrete slab								
1	24		1	Fill, fine to coarse grained sand, trace silt and gravel, light brown, moist.								
			2	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist, firm to very hard.	CL							
2	24		3									
			4									
3	18		5									
			6									
			7	(Probe refusal at 6').								
			8									
			9									
			10									
			11									
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			15									
			16									
			17									
			18									
			19									

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature	Firm
	McLaren/Hart, Inc.

McLaren Hart®

ENVIRONMENTAL ENGINEERING CORPORATION

Facility/Project Name	Geologist	Boring Number
Dryclean U.S.A. Facility #82	George Baver	B-3
Boring Drilled By (Firm Name and Name of Crew Chief)	**Start Date**	**Completion Date**	**Drilling Method**
On-Site Environmental - Denny Totzke	10/19/98	10/19/98	Soil probe
County	**Civil Town/City/Village**	**Borehole Diameter**
Milwaukee	Fox Point	1.5"

Sample Number and Type	Sample Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description and Geologic Origin for Each Major Unit	USCS	PID (IU)	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P200	RQD/Comments
			0	.4' Concrete slab								
1	24		1	Fill, fine to coarse grained sand, trace silt and gravel, light brown, moist.								
			2	CLAY, silty, trace fine to coarse grained sand, reddish brown, moist, firm to very hard.	CL							
2	20		3									
			4									
3	18		5									
			6									
			7	(Probe refusal at 6').								
			8									
			9									
			10									
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			12									
			13									
			14									
			15									
			16									
			17									
			18									
			19									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm: McLaren/Hart, Inc.

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

McLaren/Hart
1300 E. Touhy Avenue
Des Plaines, IL 60018
Attention: Brian Schneider

Client Project ID: Dryclean USA
Sample Descript: Soil: #82 B-1 0.5-2.5'
Analysis Method: EPA 5030/8021
Lab Number: 810-2455

Sampled: Oct 19, 1998
Received: Oct 20, 1998
Analyzed: Oct 22, 1998
Reported: Oct 30, 1998

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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(847) 808-7766 FAX (847) 808-7772

McLaren/Hart
1300 E. Touhy Avenue
Des Plaines, IL 60018
Attention: Brian Schneider

Client Project ID: Dryclean USA
Sample Descript: Soil: #82 B-1 4.5-6.0'
Analysis Method: EPA 5030/8021
Lab Number: 810-2456

Sampled: Oct 19, 1998
Received: Oct 20, 1998
Analyzed: Oct 22, 1998
Reported: Oct 30, 1998

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	200
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

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Kevin W. Keeley
Laboratory Director

8102449.mlh <11>

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McLaren/Hart
1300 E. Touhy Avenue
Des Plaines, IL 60018
Attention: Brian Schneider

Client Project ID: Dryclean USA
Sample Descript: Soil: #82 B-2 0.5-2.5'
Analysis Method: EPA 5030/8021
Lab Number: 810-2457

Sampled: Oct 19, 1998
Received: Oct 20, 1998
Analyzed: Oct 22, 1998
Reported: Oct 30, 1998

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	210
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

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McLaren/Hart
1300 E. Touhy Avenue
Des Plaines, IL 60018
Attention: Brian Schneider

Client Project ID: Dryclean USA
Sample Descript: Soil: 382 B-2 4.5-6'
Analysis Method: EPA 5030/8021
Lab Number: 810-2458

Sampled: Oct 19, 1998
Received: Oct 20, 1998
Analyzed: Oct 22, 1998
Reported: Oct 30, 1998

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	110
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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Accreditations/Certifications: Delaware [illegible] Illinois EPA [illegible] New Jersey DEP [illegible] New York DOH 11487
Tennessee DOH 02804 [illegible] USACE Virginia [illegible] Wisconsin DNR 999917160

GREAT LAKES ANALYTICAL

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McLaren/Hart
1300 E. Touhy Avenue
Des Plaines, IL 60018
Attention: Brian Schneider

Client Project ID: Dryclean USA
Sample Descript: Soil: #82 B-3 0.5-2.5'
Analysis Method: EPA 5030/8021
Lab Number: 810-2459

Sampled: Oct 19, 1998
Received: Oct 20, 1998
Analyzed: Oct 22, 1998
Reported: Oct 30, 1998

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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McLaren/Hart
1300 E. Touhy Avenue
Des Plaines, IL 60018
Attention: Brian Schneider

Client Project ID: Dryclean USA
Sample Descript: Soil: #82 B-3 4.5-6'
Analysis Method: EPA 5030/8021
Lab Number: 810-2460

Sampled: Oct 19, 1998
Received: Oct 20, 1998
Analyzed: Oct 23, 1998
Reported: Oct 30, 1998

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/kg	Practical Quanitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Wet Weight
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	91
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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GREAT LAKES ANALYTICAL

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McLaren/Hart
1300 E. Touhy Avenue
Des Plaines, IL 60018
Attention: Brian Schneider

Client Project ID: Dryclean USA
Sample Descript: Liquid: MeOH Blank
Analysis Method: EPA 5030/8021
Lab Number: 810-2461

Sampled: Oct 19, 1998
Received: Oct 20, 1998
Analyzed: Oct 22, 1998
Reported: Oct 30, 1998

WDNR VOLATILE ORGANIC COMPOUNDS (5030/8021)

Analyte	Method Detection Limit µg/L	Practical Quantitation Limit µg/L	WDNR Reporting Limit µg/L	Sample Results µg/L
1,1-Dichloroethane	7.2	23	25	N.D.
1,2-Dichloroethane	2.3	7.5	25	N.D.
1,1-Dichloroethene	5.7	18	25	N.D.
trans-1,2-Dichloroethene	5.4	17	25	N.D.
Tetrachloroethene	5.2	16	25	N.D.
1,1,1-Trichloroethane	5.6	18	25	N.D.
1,1,2-Trichloroethane	4.6	15	25	N.D.
Trichloroethene	6.2	20	25	N.D.
Vinyl chloride	8.2	26	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8102449.mlh <16>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

20725 Watertown Road
Brookfield, WI 53501
(414) 798-1030
FAX (414) 798-1056

CHAIN OF CUSTODY REPORT

Client: M/H
Bill To:
TAT: (5 DAY) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
Address:
Address:
DATE RESULTS NEEDED: 10/27
TEMPERATURE UPON RECEIPT: On ice
Report to:
Phone #: ( )
Fax #: ( )
State & Program:
Phone #: ( )
Fax #: ( )
AIR BILL NO. G APU
Project: Dryclean USA
Sampler: George Bayer
PO/Quote #:

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	Special List (8021): PCE, TCE, 111TCA, 11DCE, 112TCA, 11DCA, 12DCA, TRANS 1,2-DCE, Vinyl chloride	PVOC	GRO	DRO	SAMPLE CONTROL: CRACKED/BROKEN	AIRSPACE	SEALED	GOOD CONDITION	LABORATORY ID NUMBER
1 #82 B-3 .5'-2.5'	10/19/98		Soil	MEOH	2		X								8102459
2 #82 B-3 4.5'-6'	↓		↓	↓	2		↓								8102460
3 MEOH BLANK	↓				1		↓								8102461
4 #82 B-3 4.5-6.5 DUP							ON HOLD								8102460
5															
6															
7															
8															
9															
10															

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
George Bayer 10/20/98 7:30 AM	Kim Artman 10/20/98	K Artman 10/20/98	[illegible signature] 10/20
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED

COMMENTS:

ARCADIS GERAGHTY & MILLER

ARCADIS Geraghty & Miller, Inc.
126 North Jefferson Street
Suite 400
Milwaukee
Wisconsin 53202
Tel 414 276 7742
Fax 414 276 7603

Mr. Brian Cass
Carriage Cleaners
3707 West Loomis Road
Greenfield, WI 53221-1141

Subject:
ENVIRONMENTAL

Results of Geoprobe Sampling Activities, Dryclean USA Facilities Located at 17525 West North Avenue, Brookfield, Wisconsin and 7883 North Port Washington Road, Fox Point, Wisconsin.

Dear Mr. Cass:

Milwaukee:
4 January 1999

In accordance with your request and subsequent authorization, ARCADIS Geraghty & Miller, Inc. advanced and sampled five Geoprobe borings at each of the two above-referenced Dryclean USA facilities. The Geoprobe boring advancement and sampling activities were completed on December 11, 1998. The location of the Dryclean USA facilities and a summary of the sampling procedures and analytical results are presented below.

Contact:
Jennine Cota
James Drought

Extension:
414 277 6203
414 277 6204

Site Locations

The Brookfield Dryclean USA facility is located at the southwest corner of Calhoun Road and Norhardt Avenue, and is referenced by the street address of 17525 West North Avenue, in the City of Brookfield, Waukesha County, Wisconsin. This Dryclean USA facility is located in a small strip mall that was constructed in the mid to late 1980's. The other tenants in the strip mall include a dentist office, Little Caesars, Carson Wagonlit, and Elmbrook Electric Service. It is understood that the subject property was occupied by a Texaco Service Station prior to the construction of the strip mall. The location of the Brookfield Dryclean USA facility is shown on Figure 1.

The Fox Point Dryclean USA facility is located in the Brown Port-Riverpoint Shopping Center at the southwest corner of North Port Washington and Brown Deer Roads, and is referenced by the street address of 8783 North Port Washington Road, in the Village of Fox Point, Milwaukee County, Wisconsin. The tenants located continuous to the Dryclean USA unit include Cousin's Subs to the north and Odd Lot Shoes for Men to the south. It is understood that the Dryclean USA has occupied the existing space within the shopping center since the early 1980's. The location of the Fox Point Dryclean USA facility is shown on Figure 2.

It is understood that a limited Geoprobe investigation was completed at the Brookfield and Fox Point Dryclean USA facilities by McLaren Hart in October,

1998. The investigation consisted of the advancement and sampling of three Geoprobe borings near the existing dry cleaning plant within each facility. The sampling depths and results of the field screening and analytical testing completed by McLaren Hart, Inc. were not available upon preparation of this report.

Geoprobe Sampling Activities

Five Geoprobe borings were advanced and sampled on the Brookfield and Fox Point Dryclean USA facilities on December 11, 1998. The Geoprobe sampling activities were conducted by Giles Engineering, Inc. (Waukesha, Wisconsin) with oversight provided by ARCADIS Geraghty & Miller, Inc. The Geoprobe sampling activities were completed at each site in the presence of the facility managers with prior authorization from Mr. Robert Miller of Spic and Span, Inc. In addition, Mr. Brian Schnieder of McLaren Hart, Inc. reviewed the location of the proposed Geoprobe borings in advance of the sampling activities.

Soil Sampling

Three Geoprobe borings (GP-1, GP-2, GP-3) were advanced within each Dryclean USA location, and two Geoprobe borings (GP-4 and GP-5) were completed outside of each facility. The Geoprobe borings advanced within the facilities were completed in close proximity to the Geoprobe borings advanced by McLaren Hart. The location of the Geoprobe borings advanced by ARCADIS Geraghty & Miller, Inc. are shown on Figures 3 and 4.

The existing floor tile within the facilities was removed prior to the initiation of soil sampling activities. The soil beneath the existing floor surface was accessed following removal of a core of floor slab with a electric coring machine. Water was applied during coring activities to reduce dust emissions. Following completion of the coring activities, a portable hydraulic hammer was utilized to continuously advance a sampling devise into the subsurface. Soil samples were collected from the coring devise for field screening and analytical testing.

The exterior sampling locations (Geoprobe Boring Nos. GP-4 and GP-5) at each site were advanced utilizing a truck-mounted Geoprobe unit. The soil samples were collected from the Geoprobe unit using a Series AT-660 Large Bore Soil Sampler and acetate liners. The soil sampler was advanced to the desired sampling depth using the hydraulic ram and hammer. Once the sampler reached the desired depth, the sampler was opened by removing the stop pin in the sampler. The drive point piston was then free to move up the sampler. The sampler was driven an additional 2 feet to push a soil sample into the sampler. The soil sample was retained in a 1 inch by 2 foot acetate liner inside the sampler. Soil samples were continuously collected from all exterior Geoprobe borings.

Dedicated latex gloves were worn by the field staff during the collection of the soil samples within and outside of the Dryclean USA facilities. The soil sampling equipment was decontaminated with a laboratory-grade soap solution and a new acetate liner was installed before each soil sample was collected. Upon opening the acetate liners, each soil sample was field-screened for the presence of total ionizable volatile organic compound (VOC) vapors using a photoionization detector (PID).

The soil samples submitted for laboratory analyses are presented in Table 1. Each soil sample which was selected for the analysis of Volatile Organic Compounds (VOCs) was placed into sterilized laboratory-supplied containers, immediately placed on ice in a cooler and shipped, via courier, to the EnChem laboratory, a Wisconsin-certified laboratory (No. 405132750) using standard chain-of-custody procedures.

Groundwater Sampling

The groundwater samples were collected at the exterior sampling locations at the Brookfield Dryclean USA facility by installing a temporary 1-inch diameter polyvinyl chloride (PVC) well screen and riser within each of the Geoprobe boreholes. Polyethylene tubing was lowered within the interior of the PVC riser and well screen, and groundwater was collected by using a vacuum pump. Dedicated latex gloves were worn by the field staff during the collection of all groundwater samples. New dedicated tubing was used for collection of each groundwater sample. The groundwater samples were placed into laboratory-supplied bottles, immediately placed on ice in a cooler, and conveyed to the EnChem laboratory for VOC analysis using standard chain-of-custody procedures.

No groundwater samples were collected from the Fox Point Dryclean USA location as free water was not encountered during the soil sampling activities.

Borehole Abandonment

Upon completion of the soil and groundwater sampling activities, the borings were abandoned with granular bentonite in accordance with the requirements of Chapter NR 141 of the Wisconsin Administrative Code (WAC). An asphalt patch was placed over the Geoprobe boring at each exterior boring location. Portland cement concrete was utilized to fill the void created by the core within the floor slab at each interior sampling location. The floor tile was also subsequently replaced at each sampling location.

Results of Analytical Results

Brookfield, Wisconsin Dryclean USA Facility

The results of the analytical testing performed on the soil samples collected from the five Geoprobe Borings indicated the presence of chlorinated and petroleum hydrocarbons. Tetrachloroethene (a chlorinated hydrocarbon used as a dry cleaning solvent) concentrations ranged from 280 micrograms per kilogram (µg/kg) at the location of GP-2 at a sampling depth of 4 to 6 feet below ground surface (bgs) to 500 µg/kg at the location of GP-4 at a depth of 6 to 8 feet bgs. The Wisconsin Department of Natural Resources (WDNR) has not developed Residual Contaminant Levels (RCLs) for the groundwater leaching pathway for Tetrachloroethene.

Benzene concentrations ranged from non-detect to 210 µg/kg at the location of GP-1 at a depth of 6 to 8 feet bgs. Toluene concentrations ranged from non-detect to 2200 µg/kg at the location of GP-3 at a sampling depth of 6 to 8 feet bgs. Ethylbenzene concentrations ranged from 4500 µg/kg at the location of GP-1 at a sampling depth of 6 to 8 feet bgs to 58000 µg/kg at the location of GP-3 at a sampling depth of 6 to 8 feet bgs. Total Xylene concentrations ranged from 5240 µg/kg at the location of GP-1 at a sampling depth of 6 to 8 feet bgs to 271000 µg/kg at the location of GP-3 at a sampling depth of 6 to 8 feet bgs. No VOC analytes were detected in the soil sample collected from the location of Geoprobe Boring No. GP-2 at sampling depth of 2 to 4 feet bls.

Benzene, Toluene, Ethylbenzene, and Xylene are petroleum hydrocarbons that are commonly found in gasoline. The WDNR soil RCLs for these analytes are 5.5, 1500, 2900, and 4100 µg/kg, respectively. The WDNR RCLs were exceeded for these analytes at the sampling locations.

The analytical testing performed on the groundwater samples collected from the two Geoprobe borings indicated the presence of tetrachloroethene and petroleum constituents. Tetrachloroethene was detected in the groundwater sample collected from the location of GP-4 at a concentration of 54 micrograms per liter (µg/L). The Tetrachloroethene level exceeds the WDNR enforcement standard of 5 µg/L. Benzene was detected in the groundwater sample collected from the location of GP-4 at a concentration of 40 µg/L. The Benzene level exceed the WDNR Enforcement Standard of 5 µg/L. Ethylbenzene was detected in the groundwater sample collected from the location of GP-4 at 380 µg/L. The Ethylbenzene level exceeds the WDNR Preventive Action Limit of 140 µg/L. Napthalene was detected in the groundwater sample collected from the location of GP-4 at a concentration of 96 µg/L. The Napthalene level exceeds the WDNR Enforcement Standard of 40 µg/L. Total Xylenes were detected in the groundwater sample collected from the location of GP-

4 at a concentration of 882 µg/L. The Xylene level exceeds the WDNR Enforcement Standard of 620 µg/L.

Fox Point, Wisconsin Dryclean USA Facility

The results of the analytical testing performed on the soil samples collected from the five Geoprobe Borings indicated the presence of chlorinated compounds. Tetrachloroethene concentrations ranged from 730 µg/kg at the location of GP-1 at a sampling depth of 0 to 2 feet bgs to 1000 µg/kg at the location of GP-2 at a sampling depth of 2 to 4 feet bgs. No VOCs were detected in the soil samples collected from the locations of Geoprobe Boring No. GP-4 and GP-5 at sampling depths of 2 to 4 feet bgs.

As indicated earlier, no groundwater samples were collected from the Geoprobe borings advanced at the Fox Point Dryclean USA facility.

Recommendations

Based on the results of the analytical testing, ARCADIS Geraghty & Miller, Inc. formulates the following recommendations:

1. It is recommended that the owner of the Dryclean USA facilities is notified of the results of the analytical testing performed on the collected soil and groundwater samples and the WDNR reporting requirements set forth in Chapter 292 of the Wisconsin State Statutes.

2. A spill containment system exists beneath the dry cleaning plants in each of the Dryclean USA facilities. The portion of the spill containment system located beneath the door of the dry cleaning plant does not extend enough to collect spills and fugitive emissions. The spill containment system beneath the door to the dry cleaning plant is recommended to be extended to collect and contain both spills and fugitive emissions.

3. The results of the analytical testing performed on the collected soil and groundwater samples indicated the presence of chlorinated and/or petroleum hydrocarbons. The petroleum hydrocarbons identified in the soil samples collected from the Brookfield facility exceeded the WDNR RCLs. It is recommended that a remedial investigation is completed at each site (including the installation of groundwater monitoring wells at the Brookfield location) to evaluate if remediation of the soils and/or groundwater is warranted.

4. As indicated above, petroleum hydrocarbons in exceedance of the WDNR RCLs were detected in the soil samples collected from the Brookfield location. It is understood that this facility was formerly occupied by a Texaco Service Station

prior to construction of the strip mall. The remedial investigation recommended for this site is eligible for reimbursement under the Petroleum Environmental Cleanup Fund Act (PECFA). The eligibility requirements are set forth in Chapter COMM 47 of the WAC. It is recommended that the owner register the former underground storage tanks (USTs) with the Wisconsin Department of Commerce, and obtain consultant proposals and bids from commodity providers to maintain eligibility under the PECFA program.

Closing

ARCADIS Geraghty & Miller appreciates the opportunity to be of service to Mr. Brian Cass on this project. Should you have any questions relating to the information presented herein, or if ARCADIS Geraghty & Miller can be of any additional assistance, please feel free to call on us at your convenience.

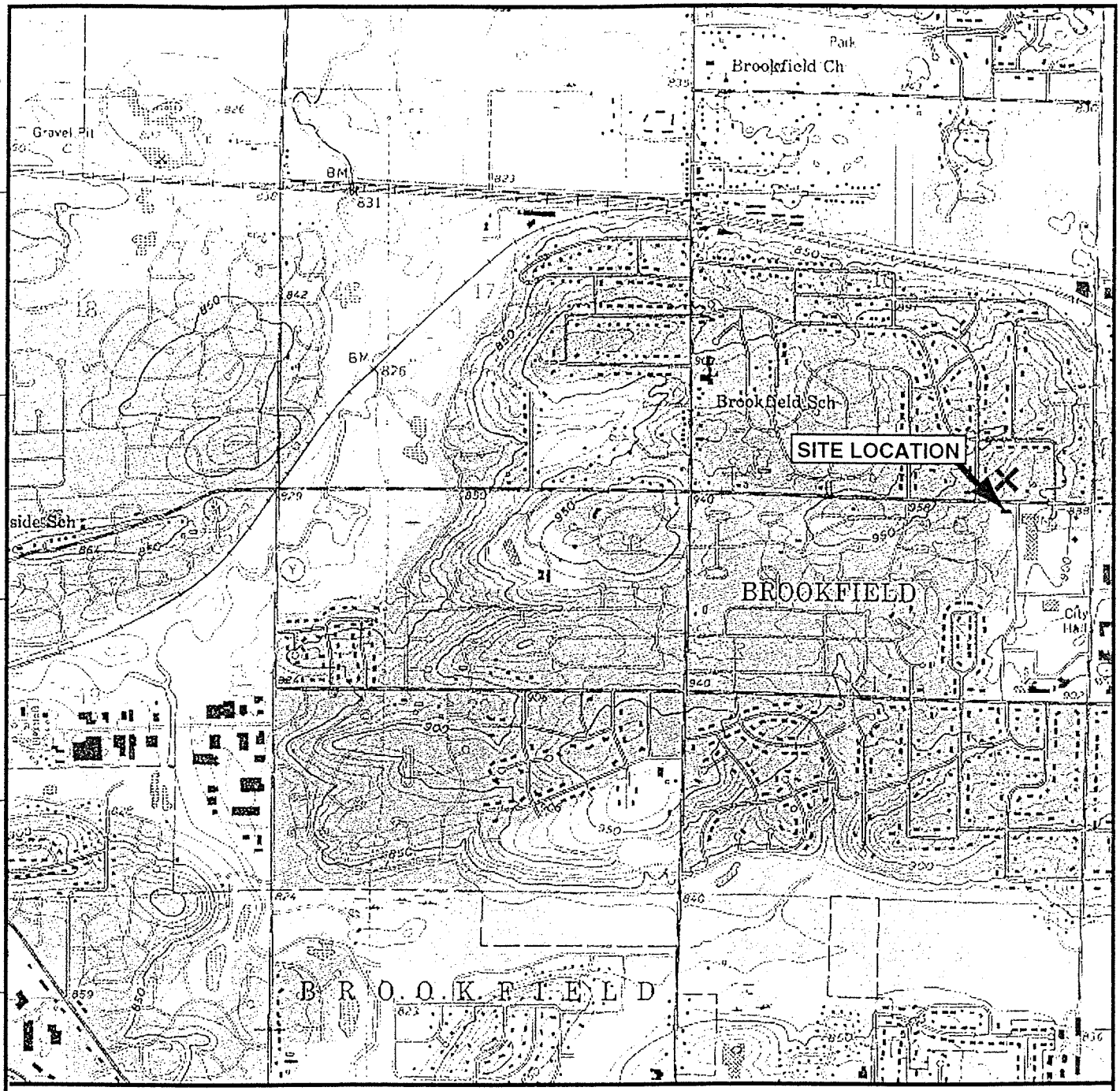
Sincerely,

ARCADIS Geraghty & Miller, Inc.

Jennine Cota
Environmental Engineer

James F. Drought
Principal Scientist/Hydrogeologist

Copies:
Mr. Brian Cass - One Hour Martinizing
Mr. Tom Shannon, Esq. - Fox, O'Neill & Shannon, S.C.



SOURCE: USGS 7.5 Minute Topographic Map, WAUKESHA, WISCONSIN Quadrangle, 1994

N

0 1000 2000 4000

SCALE IN FEET

WISCONSIN

DRAFTER: ELS | APPROVED: | CHECKED: KLD | DRAWING: SITE_LOC.AI | FILE NO.: GRAPHICS | PN: ONEHRMARWI0703BRKFLD | DWG DATE: 04JAN99

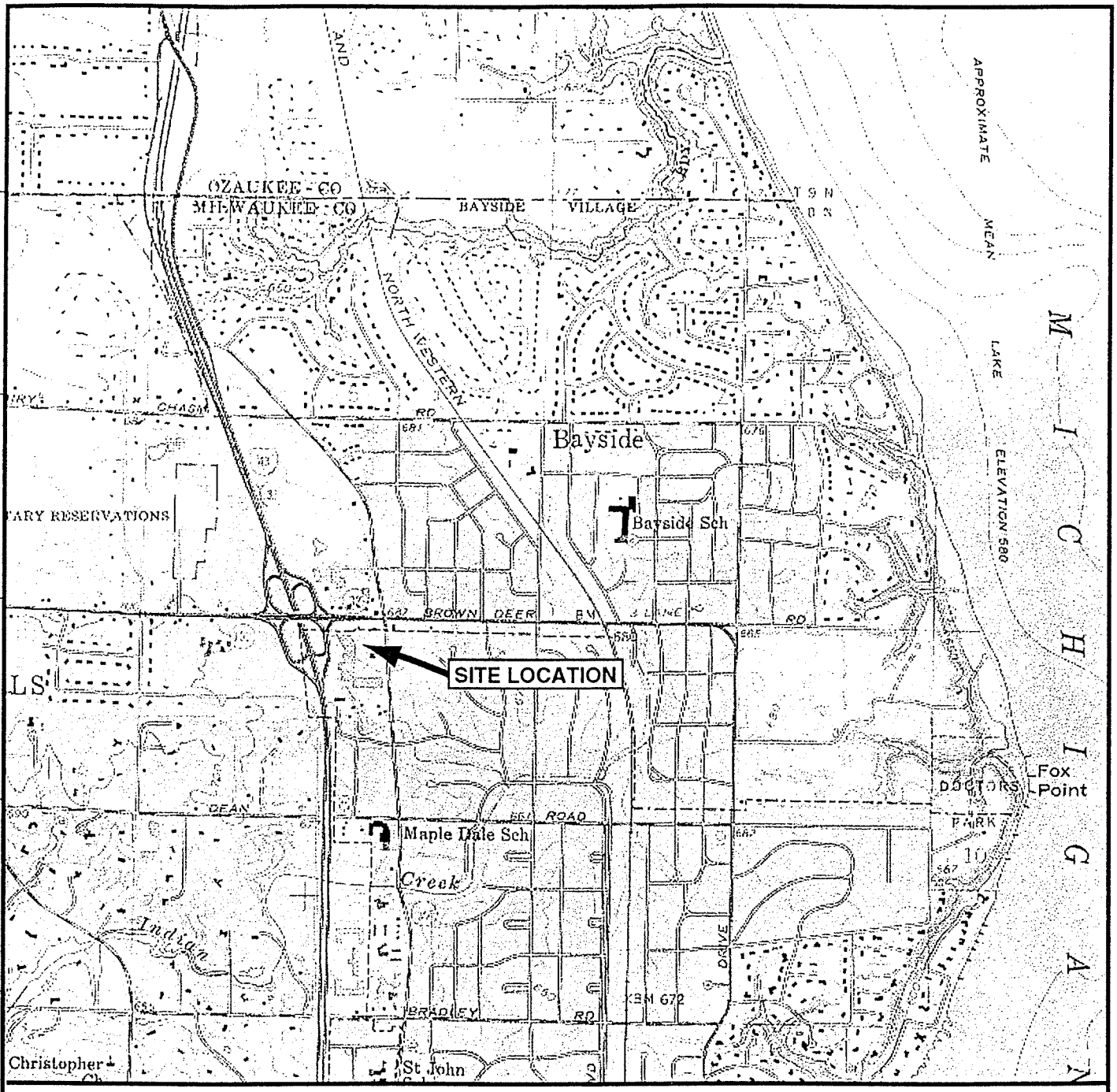
ARCADIS GERAGHTY & MILLER

SITE LOCATION MAP

DRYCLEAN USA
17525 W. NORTH AVENUE
BROOKFIELD, WISCONSIN

FIGURE

1



SOURCE: USGS 7.5 Minute Topographic Map, THIENSVILLE, WISCONSIN Quadrangle, 1976

N

0 1000 2000 4000

SCALE IN FEET

WISCONSIN

DRAFTER: ELS | APPROVED: | CHECKED: KLD | DRAWING: SITE_LOC.AI | FILE NO.: GRAPHICS | PN: ONEHRMARWI0703FOXPT | DWG DATE: 04JAN99

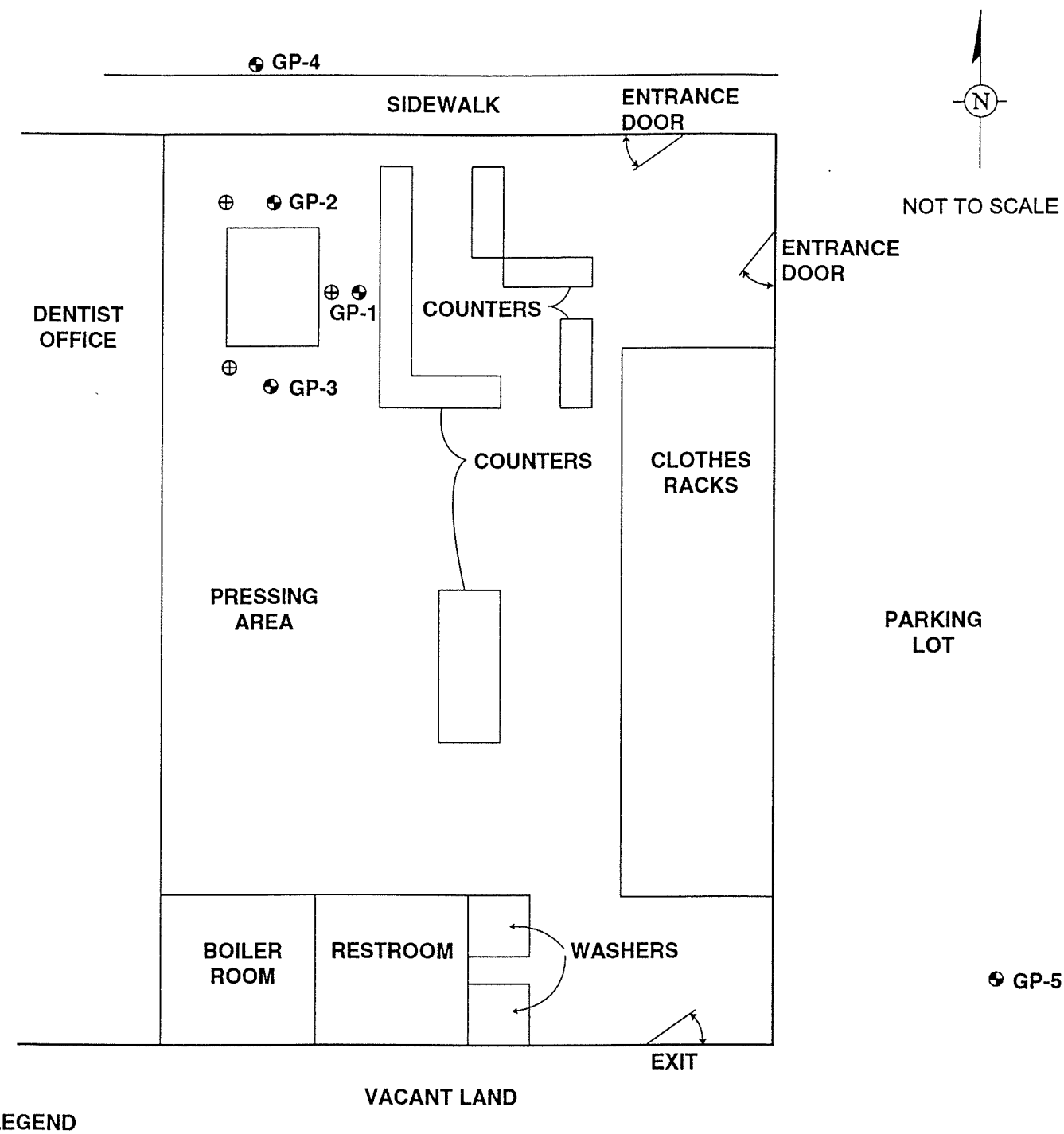
ARCADIS GERAGHTY & MILLER

SITE LOCATION MAP

DRYCLEAN USA
8783 N. PORT WASHINGTON ROAD
FOX POINT, WISCONSIN

FIGURE

2



LEGEND

⊕ McLAREN HART SOIL BORING LOCATION

GP-1 ◓ ARCADIS GERAGHTY & MILLER TEST BORING LOCATION

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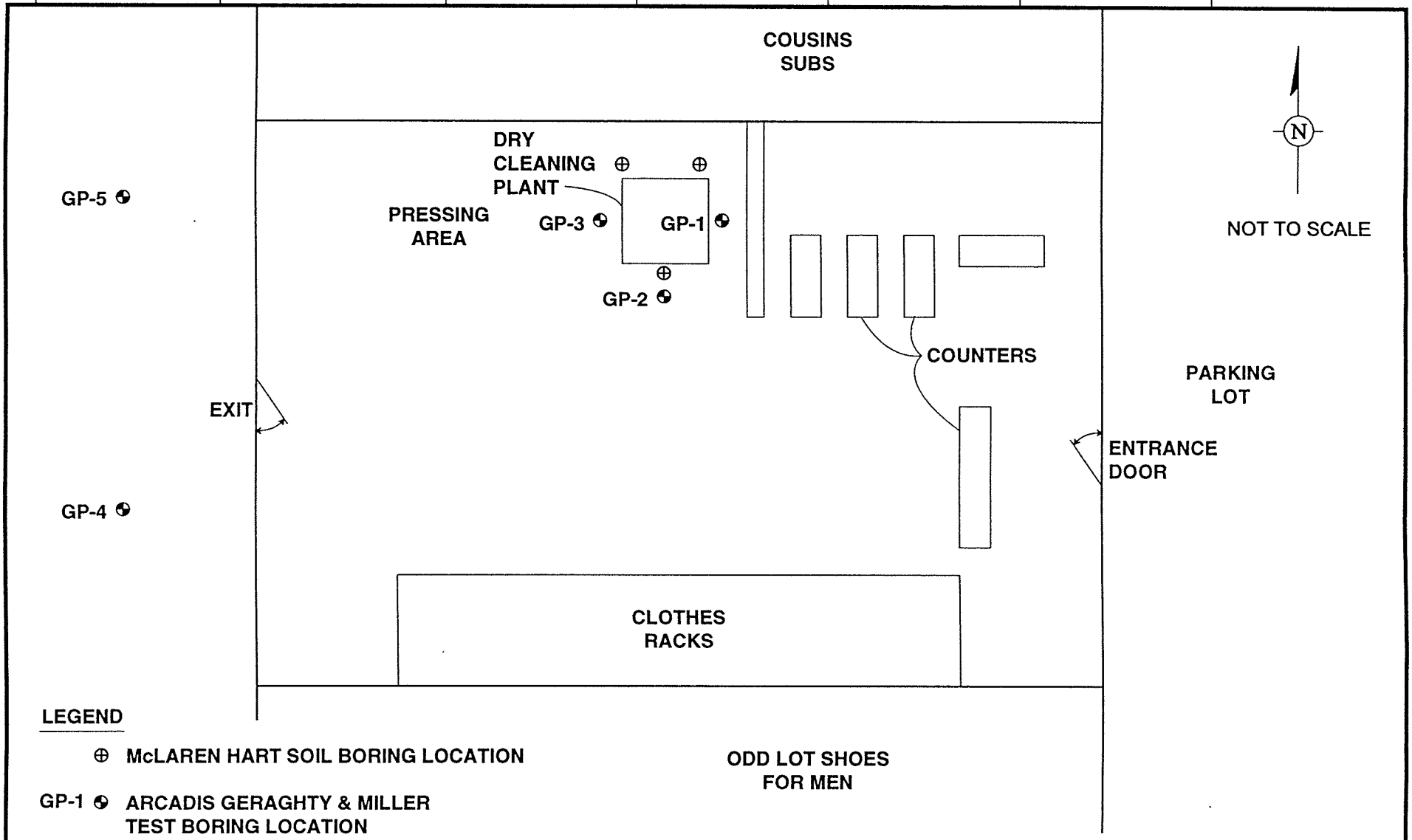
SITE LAYOUT

DRYCLEAN USA
17525 W. NORTH AVENUE
BROOKFIELD, WISCONSIN

FIGURE 3

DWG DATE: 04JAN99	PN: ONEHRMAR\WI0703\FOXPT	FILE NO.: GRAPHICS	DRAWING: BASE.AI	CHECKED: KLD	APPROVED:	DRAFTER: ELS



ARCADIS
GERAGHTY & MILLER

SITE LAYOUT

DRYCLEAN USA
8783 N. PORT WASHINGTON ROAD
FOX POINT, WISCONSIN

FIGURE
4

Table 1. Soil Analytical Results, Dryclean USA Facility, Brookfield, Wisconsin.

Boring Number		GP-1	GP-2	GP-2	GP-3	GP-4	GP-5	
Sample Depth[1]		(6-8)	(2-4)	(4-6)	(6-8)	(6-8)	(6-8)	Wisconsin
Sample Date		12/11/98	12/11/98	12/11/98	12/11/98	12/11/98	12/11/98	RCL
VOLATILE ORGANIC COMPOUNDS	Units							
Benzene	µg/kg	210	<25	<25	<630	<130	<25	5.5
Toluene	µg/kg	<50	<25	<25	2200	<130	<25	1500
Ethylbenzene	µg/kg	4500	<25	<25	58000	1900	<25	2900
Xylenes, Total	µg/kg	5240	<50	<50	271000	5300	<50	4100
Tetrachloroethene	µg/kg	100Q	52Q	280	<630	500	<25	NE
Trichloroethene	µg/kg	<50	<25	<25	<630	<130	<25	NE
1,2,4 Trimethylbenzene	µg/kg	19000	<25	<25	200000	54000	<25	NE
1,3,5 Trimethylbenzene	µg/kg	3600	<25	<25	60000	21000	<25	NE
Isopropylbenzene	µg/kg	780	<25	<25	7400	1900	<25	NE
Naphthalene	µg/kg	2600	<25	<25	17000	1300	<25	NE
n-Butylbenzene	µg/kg	2400	<25	<25	18000	8900	<25	NE
t-Butylbenzene	µg/kg	<50	<25	<25	<630	160Q	<25	NE
s-Butylbenzene	µg/kg	<50	<25	<25	3600	2000	<25	NE
n-Propylbenzene	µg/kg	3700	<25	<25	36000	12000	<25	NE
p-Isopropyltoluene	µg/kg	330	<25	<25	2200	1300	<25	NE

(1) Sample depths in feet below land surface. NE = Not established.

[ ] Constituent concentration exceeds Wisconsin generic residual contaminant level (RCL).

Q Concentration falls above the Limit of Detection (LOD), but below the Limit of Quantitation (LOQ).

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Table 2. Groundwater Analytical Results, Dryclean USA Facility, Brookfield, Wisconsin.

Sample Identification		GP-4	GP-5		
Sample Date		12/11/97	12/11/97	ES	PAL
VOLATILE ORGANIC COMPOUNDS	Units				
Benzene	µg/L	40	0.58Q	5	0.5
Ethylbenzene	µg/L	380	<0.32	700	140
Naphthalene	µg/L	96	<0.35	40	8
Toluene	µg/L	12Q	0.69Q	343	68.6
Xylenes, Total	µg/L	882	<0.67	620	124
Trichloroethene	µg/L	8.6Q	<0.37	5	0.5
cis-1,2-Dichlorethene	µg/L	<5.6	2.6	70	7
Tetrachloroethene	µg/L	54	0.67Q	5	0.5
1,2,4-Trimethylbenzene	µg/L	2400	<0.22	NE	NE
1,3,5-Trimethylbenzene	µg/L	810	<0.27	NE	NE
s-Butylbenzene	µg/L	53	<0.29	NE	NE
n-Butylbenzene	µg/L	140	<0.29	NE	NE
Isopropylbenzene	µg/L	94	<0.26	NE	NE
p-Isopropyltoluene	µg/L	37	<0.24	NE	NE
n-Propylbenzene	µg/L	420	<0.76	NE	NE

Constituent concentration exceeds Wisconsin NR 140 Prevettive Action Limit.

Constituent concentration exceeds Wisconsin NR-140 Enforcement Standard.

NE Not Established.

Q Concentration falls above the Limit of Detection (LOD), but below the Limit of Quantitation (LOQ).

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Table 3. Soil Analytical Results, Dryclean USA Facility, Fox Point, Wisconsin.

Boring Number		GP-1	GP-2	GP-3	GP-4	GP-5	
Sample Depth[1]		(0-2)	(2-4)	(2-4)	(2-4)	(2-4)	Wisconsin
Sample Date		12/11/97	12/11/97	12/11/97	12/11/97	12/11/97	RCL
VOLATILE ORGANIC COMPOUNDS	Units						
Tetrachloroethene	µg/kg	730	1000	750	34Q	47Q	NE

(1) Sample depths in feet below land surface. NE Not established. NA Not analyzed.

[ ] Constituent concentration exceeds Wisconsin generic residual contaminant level (RCL).

Q Concentration falls above the Limit of Detection (LOD), but below the Limit of Quantitation (LOQ).

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