Moraine Environmental, Inc.
Environmental Management Services

November 4, 1997

Project Reference # 0417

Ms. Claudia Gehl
6550 N. Fresno Street
Milwaukee, WI 53224-5349

Re: Site Assessment
8627-8633 W. Lynx Avenue
Milwaukee, WI

Dear Claudia:

Enclosed please find a **REVISED** copy of our report "Phase I Environmental Site Assessment" for the above location, including the corrections you recently forwarded.

Following your review of the enclosed please contact me with any questions or concerns you may have.

Sincerely,

MORAINE ENVIRONMENTAL, INC.

Thomas C. Sweet
President

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enc.

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Moraine Environmental, Inc.
Environmental Management Services

PHASE I ENVIRONMENTAL SITE ASSESSMENT
AT
GEHL SITE
8627-8633 WEST LYNX AVENUE
MILWAUKEE, WISCONSIN

PREPARED FOR:
MS. CLAUDIA GEHL
6550 NORTH FRESNO STREET
MILWAUKEE, WISCONSIN 53224-5349

Moved: 242 Junction Rd Apt 30
Madison, WI 53717-2102

PREPARED BY:
MORAINE ENVIRONMENTAL, INC.
1234 12TH AVENUE
GRAFTON, WISCONSIN 53024
(414) 377-9060

PROJECT REFERENCE #0417

NOVEMBER 1, 1997

Brenda Laczkowski
Toxicologist/Scientist

Thomas C. Sweet
President

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1.0 INTRODUCTION

1.1 Purpose of the Phase I Assessment

Moraine Environmental, Inc. was retained by Ms. Claudia Gehl to conduct a Phase I environmental site assessment for the property located at 8627-8633 West Lynx Avenue, Milwaukee, Wisconsin. The scope of work included physical inspections of the property and a government agency record review for the subject property and adjacent properties. The purpose of the assessment was to determine if historical activities at the site or adjacent properties could have had an adverse impact on the environment. Research of said property included an evaluation of its historical use as well as an examination of any generation, treatment, storage or disposal of hazardous or toxic chemicals, materials, substances or wastes. This report presents the findings of the assessment and adheres to the American Society for Testing and Materials (ASTM) - Site Assessment Process - ASTM Standard #E-1527.

1.2 Limitations and Exceptions of Assessment

This assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by professional consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusion and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the work of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

1.3 Limiting Conditions and Methodology Used

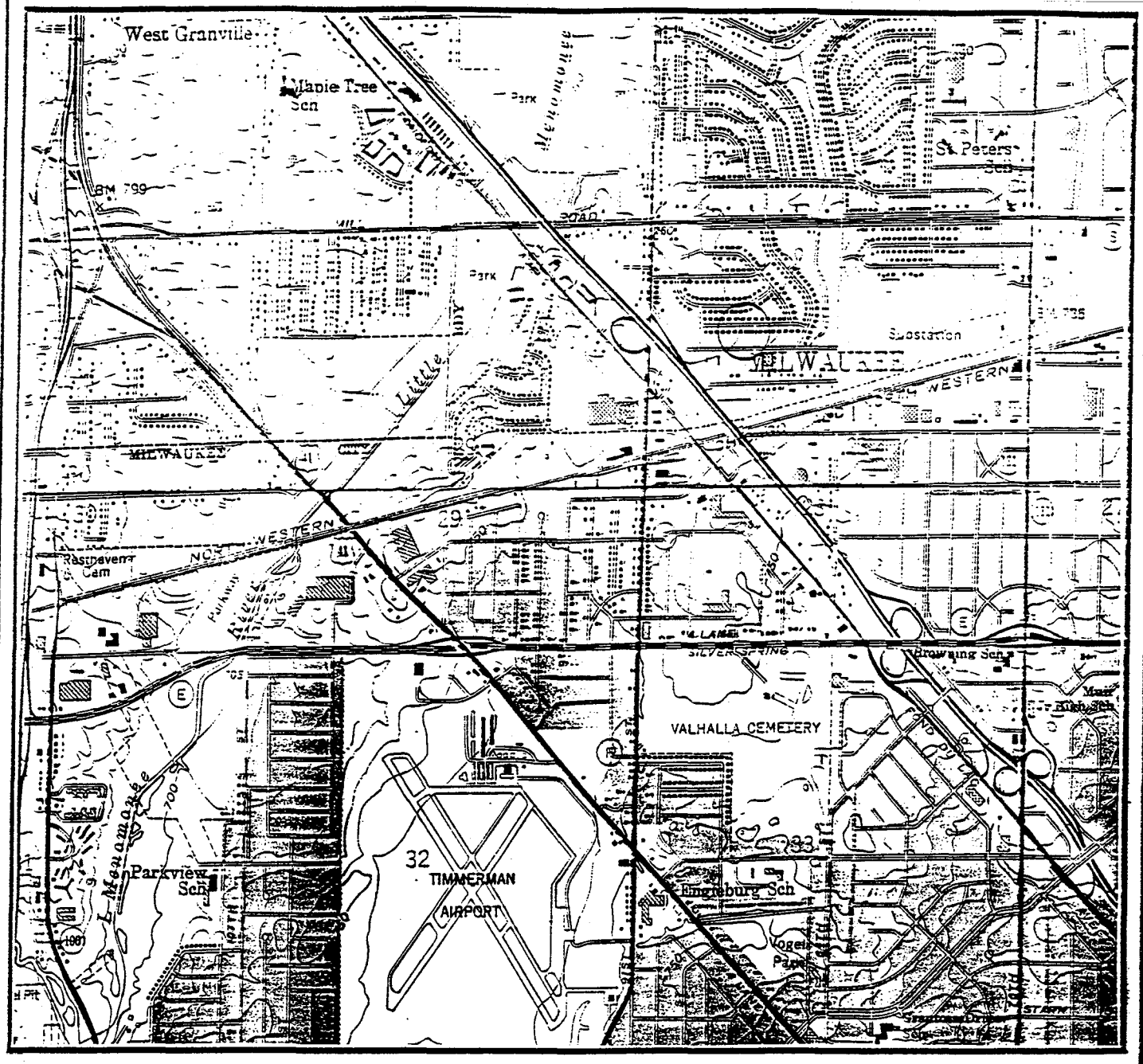
The subject site was visited by Tom Sweet and Brenda Laczkowski on October 14, 1997. Qualifications of Environmental Professionals are presented in Appendix A.

A review of pertinent regulatory and historical records was conducted. The following list of items was reviewed: historical aerial photographs; the National Priority List (NPL); the Comprehensive Environmental Response, Compensation and Liability Act (CERCLIS) list; the Resource Conservation and Recovery Information System - Treatment, Storage and Disposal Facilities (RCRA TSD) list; the Resource Conservation and Recovery Information System - Large and Small Quantity Generators (RCRA Generator) list; the RCRA Administrative Action Tracking System (RAATS) list; the Emergency Response Notification System (ERNS) list; the PCB Activity Database System (PADS) list; the Toxic Release Inventory (TRI) list; the Section Seven Tracking System (SSTS) list; the Civil Enforcement Docket (DOCKET) list; the Toxic Substances Control Act Inventory (TSCA) list; the Wisconsin Hazard Ranking List (HRL); the Wisconsin Environmental Repair Program Sites (ERP) list; the Wisconsin Registry of Waste Disposal Sites (SWF) list; the Wisconsin Leaking Underground Storage Tank list (LUST); and the Wisconsin Underground Registered Underground Storage Tank list (UST). MEI personnel also reviewed the City of Milwaukee building inspection records for the subject site.

2.0 SITE DESCRIPTION

2.1 Local and Legal Description

The site is located in the Northeast ¼ of the Northwest ¼ of Section 28, Township 8 North, Range 21 East, City of Milwaukee, Milwaukee County, Wisconsin (see Figure 1). Specifically, the site is located at 8627-8633 West Lynx Avenue, Milwaukee, Wisconsin. The site is approximately 2 acres in size, contains a vacant warehouse with office facilities and includes two adjacent lots to the west of the warehouse. Refer to Figure 1 for a site location map.



DRAWING TITLE

Site Location Map

PROJECT NAME

Gehl Warehouse Site
8627-8633 West Lynx Avenue
Milwaukee, Wisconsin

PROJECT NUMBER	DRAWING COMPANY
0417	*Moraine Environmental, Inc.*

SCALE	DATE	
1:24,000	*10-15-97*	*FIGURE 1*

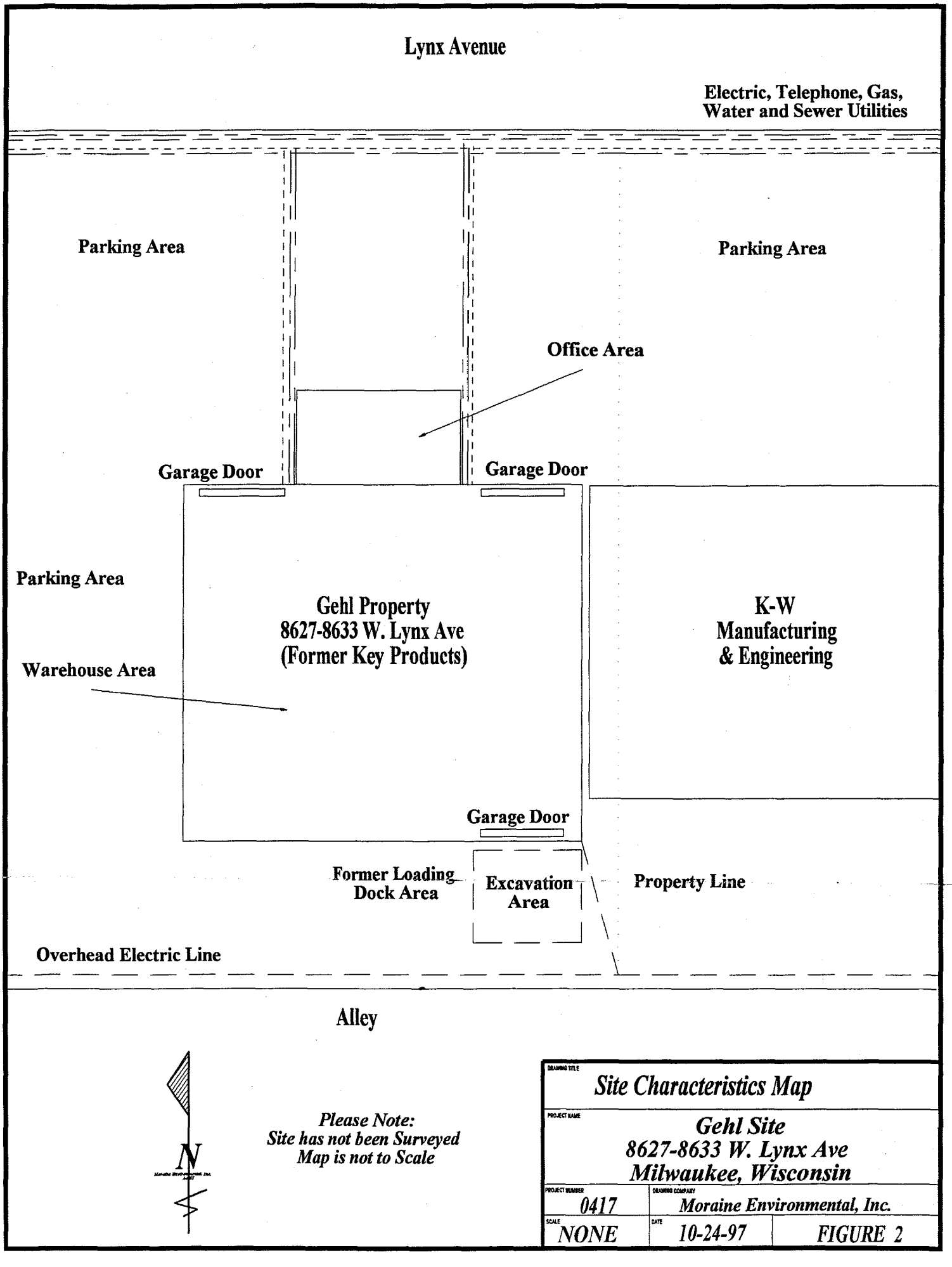
2.2 Site and Vicinity Characteristics

The entire site is approximately 19,748 square feet in size and contains a vacant warehouse with office facilities. The site is located in an industrial/residential area of Milwaukee. The warehouse is bordered to the north by Lynx Avenue, to the east by K W Manufacturing & Engineering, to the west by South 87th Street and to the south by Interstate Batteries and PSI Pumping Systems. The site is covered with asphalt and surficial drainage is toward the north where municipal catch basins are located. The Menomonee River is located approximately ¾ mile west of the site. A Site and Vicinity Characteristics Map is presented as Figure 2.

The site and adjacent properties (industrial and residential) are served by municipal water supply. The City of Milwaukee obtains potable water from Lake Michigan from inlets located approximately one mile off the shoreline. Groundwater flow direction is toward the northeast.

2.3 Site Geology

The site is located within the Lake Michigan basin, a 3,600 square mile drainage area situated along the eastern border of Wisconsin. The Lake Michigan basin extends from Door County south to Kenosha County with discharge primarily into Lake Michigan. Three principal aquifers are present within the basin. In order of depth from surface, the aquifers are: the sand and gravel aquifer in the glacial drift, the Niagaran, and the sandstone aquifer. The sand and gravel aquifer consists of Quaternary age glacial deposits ranging in thickness from 0 to 600 feet. This aquifer is a significant source of water for domestic and agricultural use. The sand and gravel aquifer is relatively susceptible to contaminations from surface releases due to its permeability. The Niagaran aquifer is present beneath approximately 98 percent of the Lake Michigan basin and consists of Silurian and Devonian age undifferentiated dolomite. The thickness of the aquifer ranges from 0 to 750 feet and provides a good groundwater source, especially in the northern half of the basin. The deep sandstone aquifer is present beneath the entire basin area and consists primarily of Ordovician and Cambrian age sandstones. The aquifer ranges from 0 to 3,500 feet in thickness and is confined in most areas by the relatively impermeable Maquoketa shale. The



Please Note:
Site has not been Surveyed
Map is not to Scale

DRAWING TITLE
Site Characteristics Map

PROJECT NAME
Gehl Site
8627-8633 W. Lynx Ave
Milwaukee, Wisconsin

PROJECT NUMBER	DRAWING COMPANY	
0417	Moraine Environmental, Inc.	
SCALE: NONE	DATE: 10-24-97	FIGURE 2

sandstone aquifer is a primary source of water by cities in Southeastern Wisconsin and Illinois (Skinner and Borman, 1973).

Locally, the Oak Creek formation underlies most of Milwaukee, Waukesha, Racine and Kenosha Counties. The Oak Creek formation consists of late Wisconsin age lacrustrine silts and clays, fluvial sands and gravels and glacial tills. The till is generally clayey and was deposited during recession of the glacial ice of the Lake Michigan lobe (Mickelson, Clayton, Baker, Mode, Schneider, WG & NHS Paper 84-1).

2.4 Structure Description

The site building contains a vacant warehouse with office facilities which are approximately 15,350 square feet. The building is constructed of concrete blocks and occupies most of the property. The building was constructed in 1973 and has served as a machine manufacturing facility. Electric utilities are located overhead at the south side of the building and underground along Lynx Avenue, north of the subject site. Telephone, gas, water and sewer utilities are located underground along Lynx Avenue. Gas, water and sewer utilities enter from Lynx Avenue. The facility is serviced by municipal water, sewer and storm sewer. Precipitation runoff is controlled by City of Milwaukee storm sewers and is directed toward the north where municipal catch basins are located.

The building contains office areas, restrooms and a warehouse. The office areas are located in the front of the building on the first and second floor and are completely empty. The restrooms are located immediately to the south of the offices on the first floor and in the northern portion of the warehouse. The warehouse is located to the south of the office facilities. The warehouse contains four garage doors, two on the north side of the facility, two on the south side of the facility. The warehouse contains a number of drums of paint compounds, floor sweep compound, synthetic metal cutting fluid, hydraulic fluid, SAE 30 oil and solvent. The drums are all labeled and in good condition except for the drum containing solvent. This drum is not labeled or sealed. The warehouse has two drains, one in the northwest portion and one in the northeast portion of the site. The drain in the

northwest portion of the warehouse contained some unknown residue. The concrete floor of the warehouse was in excellent condition with no staining. The warehouse contained only one small tooling machine. A sump was located in the southeastern corner of warehouse. The sump has been covered with concrete. The sump was previously used as a utility raceway to another building to feed a compressed air line. A number of water heaters were identified in the warehouse and office facilities. The water heaters, furnace and air conditioning units are gas fueled.

The building occupies the majority of the property. The rest of the property is used as a parking lot. West Lynx Avenue separates the subject site from the adjoining residential properties to the north. An alley separates the subject site from the adjoining commercial property to the south. A parking lot and grassy area (two land parcels) adjoin the subject property to the west. South 87th Street separates the subject site and two parcels of land from the commercial facilities across the street. A small strip of asphalt separates the subject site from the Manufacturing & Engineering facility to the east.

3.0 ENVIRONMENTAL LIENS OR SPECIALIZED KNOWLEDGE OF EXPERIENCE

3.1 Current and Past Uses of the Property

The subject facility was built in 1973. It served as a machine shop from the 1974 to 1994.

3.2 Current and Past Uses of Adjoining Properties

MEI utilized aerial photographs from 1963 through 1995 and site reconnaissance to evaluate current and past uses of adjoining properties. Properties adjacent to the subject site include private homes across W. Lynx Avenue to the north, commercial facilities across S. 87th Street to the west, a manufacturing and engineering facility to the east and industrial facilities beyond an alley to the south. Aerial photographs identified the presence of the subject site in the 1975 photograph. The site to the east was present in the 1970 photograph. The residences to the north and industrial facilities to the south of the subject facility were present throughout the series of aerial photographs. New development east of the subject site, beyond the engineering and manufacturing facility, and west of the vacant parcel of land and

parking lot, across 87th St., was evident from the aerial photographs. No other development was evident in the area of the subject site in the series of aerial photographs. A detailed review of the aerial photographs is presented in section 4.3 of this report.

3.3 Property Records Report

A property records report was not conducted to identify the past property owners for the subject site. The site was owned by Edwin and Claudia Gehl from 1973. Prior ownership is unknown. The site is currently owned by Claudia Gehl, widow of Edwin.

4.0 RECORDS REVIEW AND AERIAL PHOTOGRAPH REVIEW

4.1 Environmental Records Sources, Federal and State

A federal records search was conducted based on the available federal environmental data base records by EcoSearch Environmental Resources, Inc. (EcoSearch). The federal records search included the National Priority List (NPL) which includes uncontrolled or abandoned hazardous waste sites identified under the Superfund program; the Comprehensive Environmental Response, Compensation and Liability Act (CERCLIS) list which includes sites the EPA has investigated or is currently investigating for a release or threatened release of a hazardous substance; the Resource Conservation and Recovery Information System - Treatment, Storage and Disposal Facilities (RCRA TSD), a list of facilities which treat, store and/or dispose (TSD) of hazardous waste; the Resource Conservation and Recovery Information System - Large and Small Quantity Generators (RCRA Generator) list which identifies the generation, storage, transportation, treatment and disposal of hazardous waste for large and small generators; the RCRA Administrative Action Tracking System (RAATS) list contains information on RCRA enforcement actions, data on the type of action, proposed penalty, and final penalty amount; the Emergency Response Notification System (ERNS) list which specifies reported releases of oil and hazardous substances; the PCB Activity Database System (PADS) list which stores information about facilities which handle PCBs and is divided into storage facilities, disposers, generators and transporters; the Toxic Release Inventory (TRI) list which includes facts on amounts of chemicals stored and

emitted from the facilities which manufacture, process or import toxic chemicals that are released directly into air, water, land or are transported off-site; the Section Seven Tracking System (SSTS) list which tracks the registration of pesticide-producing establishments and tracks the types and amounts of pesticides, active ingredients and devices which are sold, produced or distributed annually; the Civil Enforcement Docket (DOCKET) list which contains information on actions filed by the Department of Justice for the USEPA and the Toxic Substances Control Act Inventory (TSCA) list includes locations and chemical production information on processors and manufacturers of chemicals. A state records search was conducted by EcoSearch and included the Wisconsin Hazard Ranking List (HRL) which provides information on known sites or facilities which present a substantial danger to the public health, welfare or the environment in Wisconsin; the Wisconsin Environmental Repair Program Site (ERP) list which is a compilation of reported contaminated sites slated for clean-up under the Environmental Repair Fund; the Wisconsin Registry of Waste Disposal Sites (SWF) list which provides information on waste disposal sites in Wisconsin; the Wisconsin Leaking Underground Storage Tank list (LUST) which provides data on underground storage tanks with reported releases into the environment and the Wisconsin Underground Registered Underground Storage Tank list (UST) which provides the location of registered underground storage tanks in Wisconsin.

The EcoSearch information report included a search of the following database lists to identify sites located within a one mile radius of the site:

1) NPL
2) CERCLA
3) RCRA TSD
4) PADS
5) SSTS
6) DOCKET
7) TSCA
8) HRL
9) ERP
10) SWF

Based on the review of the above lists, no sites were identified on the NPL, RCRA TSD, PADS, SSTS, DOCKET, TSCA or HRL list within a one mile radius of the subject site.

One site was identified on the CERCLA list:

Flint Ink Corp. 5888 N. 91st Street Milwaukee, Wisconsin	EPA ID# WID000711168 Status: Site has been delisted from CERCLIS, No further action planned

The site has been delisted with no further action planned, and therefore, will not affect the environmental integrity of the subject site.

The Wisconsin ERP Data list identified two sites within a one mile radius of the subject site. These sites include:

Pentler Property 6100-6200 N. 84th St Milwaukee, Wisconsin	Impact: Groundwater/Soil Substances: Metals/RCRA Hazardous waste
Katz Property/WI Metal & Chem 8300 W. Florist Ave Milwaukee, Wisconsin	Impact: Soil/Direct Contact Substances: Unknown

The Pentler Property is located 0.19 miles east/southeast of the subject site. Due to the close proximity to the subject site, the reported soil and groundwater contamination could affect the environmental integrity of the site should the contaminant plume migrate. The Katz Property/WI Metal & Chem site is located 0.29 miles east/southeast of the subject site. The soil contamination may affect the environmental integrity of the subject site should the contaminant plume migrate due to the close proximity to the subject site.

Two sites were identified in the Wisconsin SWF Database. These sites include:

Rueben Katz
Milwaukee, Wisconsin

Sinclair & Valentine Co.
5888 N. 91st St.
Milwaukee, Wisconsin

The Rueben Katz solid waste facility is located 0.29 miles east/southeast of the subject site. A release from this site could affect the environmental integrity of the subject site due to the close proximity to the subject site. The Sinclair & Valentine site is located 0.46 miles southwest of the subject site. Due to the location of this site in relation to groundwater flow direction and the distance to the subject site, a release may affect the environmental integrity of the subject site.

The following database lists were searched to identify sites located within ½ mile of the subject site:

1) TRI
2) LUST

One site was identified in the TRI database within a half mile of the subject site. Milwaukee Metal Products Co., 8000 W. Florist Avenue, is located 0.45 miles east/southeast of the subject site. The release information does not indicate any releases to water or land and therefore, the environmental integrity of the subject site will not be affected by the Metal Products site.

Eleven sites were identified on the Wisconsin LUST data list. The sites are all located within a half mile of the subject site. These sites include:

Hampton Plumbing Company 8617 W. Kaul Avenue Milwaukee, Wisconsin	Impact: Soil Contamination Substances: Leaded/Unleaded Gas Status: RA Report Received, Additional Work Requested
Milwaukee City 8424 W. Florist Ave. Milwaukee, Wisconsin	Impact: Soil Contamination Substances: Fuel Oil Status: Case Closed and Reopened due to a New Release
Mobil Oil (Former) 9058 W. Fond Du Lac Ave. Milwaukee, Wisconsin	Impact: Soil/ GW Contamination Substance: Unleaded Gas/Fuel Oil/ Waste Oil Status: Closeout Review Requested, Activity Closed

IGL WIS 8768 W. Fond Du Lac Ave. Milwaukee, Wisconsin	Impact: Soil Contamination Substance: Leaded Gas Status: Activity Closed
Goodwill Industries, Inc. 6055 N. 91st St. Milwaukee, Wisconsin	Impact: Soil Contamination Substance: Diesel Status: RA Report Received, Reranked to High Priority
General Lumber & Supply Co, Inc. 6001 N. 91st St. Milwaukee, Wisconsin	Impact: Soil Contamination Substance: Gasoline Status: Activity Closed
Larry's Auto Clinic Ltd. 6373 N. 91st St. Street Milwaukee, Wisconsin	Impact: Soil Contamination Substance: Unleaded Gas Status: RP Letter Sent
Kaul Oil Co. 5931 N. 91st St. Milwaukee, Wisconsin	Impact: Soil Contamination Substance: Leaded/Unleaded Gas/ Diesel Status: SI Workplan Received
Flint Ink Corp. 5888 N. 91st St. Milwaukee, Wisconsin	Impact: Soil Contamination Substance: Fuel Oil Status: Activity Closed
Kaul Mart 5881 N. 91st St. Street Milwaukee, Wisconsin	Impact: Soil Contamination Substance: Not Available Status: RP Letter Sent
Kraft Foodservice Milwaukee W137 N9245 Hwy 145 Milwaukee, Wisconsin	Impact: Soil Contamination Substance: Leaded/Unleaded Gas/ Diesel Status: SI Workplan Approved

The Hampton Plumbing site is located 0.08 miles south/southeast of the subject site. The site has been remediated, however, site closure has been denied and further work requested. Migration of contaminants from the site could affect the environmental integrity of the subject site due to the close proximity of the site to the subject site. The Milwaukee City site is located 0.23 miles southeast of the site. The environmental integrity of the subject site will not be impacted should the contaminant plume migrate due to the direction of

groundwater flow. The Mobil Oil, IGL WIS, Goodwill Industries, General Lumber & Supply, Kaul Oil, Flint Ink Co. and Kaul Mart sites are located between 0.32 and 0.46 miles southwest of the subject site. The Mobil Oil, IGL WIS, General Lumber and Flint Ink Co. sites have been closed and therefore do not pose a risk to the environmental integrity of the subject site. The Goodwill Industries, Kaul Oil and Kaul Mart sites, due to the close proximity to the subject site and the direction of groundwater flow may pose a risk to the environmental integrity of the subject site should the contaminant plumes migrate. Larry's Auto Clinic Ltd is located 0.42 miles west/northwest of the subject site. Contamination from this site will not affect the environmental integrity of the subject site due to the distance to the subject site and direction of groundwater flow. Kraft Foodservice of Milwaukee is located 0.47 miles west of the subject site. The soil contamination at this site is not likely to affect the environmental integrity of the subject site due to the proximity to the subject site.

The following data base lists were searched to identify sites located within ¼ mile of the site:

1) RCRA Generator
2) ERNS
3) UST

No sites were identified on the ERNS database list. Three sites were identified on the RCRA Generator list within a quarter mile of the subject site. These sites include:

Key Products, Inc. (former tenant at 8633 W. Lynx Ave. subject site) Milwaukee, Wisconsin	EPA ID# WID98860522 Reported Wastes: Not Available Status: RCRA Notifier (Former RCRA Site)
City of Milwaukee 8424 W. Florist Ave. Milwaukee, Wisconsin	EPA ID# WID988573564 Reported Wastes: Not Available Status: Large Quantity Generator
Northwest Yard 8414 W. Florist Ave. Milwaukee, Wisconsin	EPA ID# WID988640819 Reported Wastes: Not Available Status: Small Quantity Generator

Of the sites listed, Key Products, Inc. was located in the subject facility. Key Products, Inc. no longer occupies the site and the RCRA wastes reported are no longer stored on-site. Therefore there is no longer a risk to the environmental integrity of the site due to existing RCRA wastes. However, as noted in Section 5.6 storage/disposal activities during the occupancy of the site by Key Products did result in subsurface contamination. The City of Milwaukee and Northwest Yard sites are located 0.23 and 0.24 miles southeast of the site, respectively. Due to the proximity of these sites to the subject site, a release of the RCRA wastes could affect the environmental integrity of the subject site.

Two sites were identified on the UST database within a quarter mile of the subject site. These sites include:

Hampton Plumbing Co. 8617 W. Kaul Avenue Milwaukee, Wisconsin	UST ID#: 402001219 Status: Closed - UST Removed UST ID#: 402001220 Status: Closed - UST Removed
Northwest Yard 8414 W. Florist Avenue Milwaukee, Wisconsin 6270 N. Hopkins Street Milwaukee, Wisconsin	UST ID#: 402004111 Status: Closed - UST Removed UST ID#: 402004112 Status: Closed - UST Removed

The USTs identified at the two sites have been closed and removed and therefore do not pose a risk to the environmental integrity of the subject site.

The EcoSearch Site Assessment Report is presented as Appendix B. Please note one UST site was identified within a quarter mile of the subject site, however, due to lack of a full address, the site was not mapped. Based on the unmapped site descriptions, it does not appear that the site is located in the vicinity of the subject site and will not affect the environmental integrity of the site should a contaminant release occur.

4.2 Environmental Records Sources, Local

MEI reviewed the Wisconsin Department of Natural Resources "spills list" and found no spills of substances at or near the subject site.

Also, on October 15, 1997, MEI conducted a review of the City of Milwaukee building inspection records. The records did not identify permits or site conditions that would be of environmental concern pertaining to the subject site.

MEI searched the Department of Industry, Labor and Human Relations Underground Storage Tank (UST) computer modem to identify registered USTs at the site. The search did not identify any registered USTS at the subject property.

4.3 Historical Aerial Photograph Review/Historical Use Information

MEI obtained and reviewed aerial photographs of the vicinity for the years 1963, 1967, 1970, 1975, 1980, 1985, 1990 and 1995. The photographs were obtained from the Southeastern Wisconsin Regional Planning Commission (SEWRPC). Based on the scale of the aerial photographs, it is difficult to determine site activities other than razing of structures, construction, excavating, etc.

In the 1963 aerial photograph, the areas south and north of the subject site were already developed. Industrial facilities were present to the south and residences were present to the north of the subject site. In the 1967 photograph, Highway 145 was present to the west of the subject site. In the 1970 photograph, the site to the east of the subject site was developed. In the 1975 photograph, the subject site was present. No additional development in the area of the subject site was identified on the 1980 aerial photograph. In the 1985 and 1990 aerial photographs, additional development to the west of the subject site, across 87th St. (west of the parking and vacant lots of land adjacent to the subject facility) was identified. Additional development was also identified to the east of the subject site, beyond the engineering and manufacturing facility, in the 1985 photograph. No new development was identified in the 1990 aerial photograph.

5.0 SITE RECONNAISSANCE AND INTERVIEWS

5.1 Hazardous and Potentially Problematic Substances in Connection with Identified Use

A small number of hazardous and non-hazardous substances were noted in the warehouse area of the facility at the time of the site inspection. Materials noted during the site inspection include, but are not limited to: one 5 gallon drum of hydraulic fluid, one, partially full, 5 gallon drum of synthetic metal cutting fluid, one 2½ gallon drum of SAE #30 oil, one container of floor sweep compound, and five, full or partially full, 5 gallon drums of paint compounds. These drums were in good condition and properly labeled. The drums do not require special treatment for disposal. The hydraulic fluid, cutting fluid and oil should be taken to a local recycler for proper disposal or the drum contents can be re-used if needed. These materials were likely used as interior or exterior parts for the subject facility or in machining and building HVAC equipment.

5.2 Hazardous Substance Containers and Unidentified Substance Containers

During the investigation, MEI noted a 30 gallon drum containing approximately 15 gallons of solvent in the warehouse area of the facility. The drum is not covered or labeled. MEI recommends proper Hazardous Waste labeling of the drum, analysis of it's contents and removal and proper disposal of the solvent contents. If requested, MEI personnel can analyze, remove and properly dispose of the drum and its contents.

5.3 Storage Tanks

No Underground Storage Tanks (USTs) are registered at the subject site. No evidence of the presence of USTs was identified during the site inspection.

5.4 Indications of Solid or Hazardous Waste Disposal

As noted earlier, one 30 gallon drum containing approximately 15 gallons of solvent was identified in the garage area of the facility. MEI recommends proper labeling, analysis, removal and disposal of the drum and its contents. One drain located in the northwestern portion of the warehouse area of the facility appeared to contain some residue. The residue is most likely the result of discharges of waste solvents and/or paints to the drain by the previous tenant. MEI recommends the owner of the subject facility contract with a sewer cleaning firm to remove the residual solvents/paints from the subject sewer.

Sample?

5.5 Domestic Trash Pickup

Two dumpster are located along the south wall of the facility. Domestic trash is picked up weekly by Bruce Municipal Equipment, Inc. of Menomonee Falls, Wisconsin.

5.6 Physical Setting Analysis, Migration of Hazardous Substances

The site topography is mainly flat with surficial drainage toward the north where municipal catch basins are located. MEI did not observe the migration of hazardous substances at or around the perimeter of the facility. General housekeeping of the building interior is good. The offices and bathrooms are clean and in good condition. The concrete floor in the garage area is clean and free of stains. MEI did notice some paint and staining in the southwest corner of the garage area where a loading dock was previously located. It is understood the previous tenant in the subject facility stored paints and/or solvents at the loading dock or they leaked from a waste disposal dumpster. MEI collected a composite sample of the shallow soils (less than 6") located near the loading dock of the subject facility during a facility walk-through conducted in October, 1994. The soil sample was analyzed for Diesel Range Organics (DRO) and Protocol B. Analytical results indicated an elevated concentration of DRO above WDNR generic soil quality standards. MEI recommended the site owner contract an environmental consultant to define the extent of contamination and begin remedial activities. On January 26, 1996, Key Products, the tenant of the subject site, reported a release had occurred from the handling of waste paint related materials. Materials Management & Training Ltd was retained to conduct a subsurface investigation to define the extent of contamination. Laboratory analysis of soil samples analyzed during the subsurface investigation indicated Volatile Organic Compound (VOC) contaminant levels from 29,000 to 48,000,000 ug/kg respectively. On May 26, 1997, 226 tons of soil were excavated from the area of known contamination. Laboratory results of confirmation soil samples analyzed during the excavation indicated the base and east wall of the excavation contained VOC concentrations of 1,500,000 ug/kg and 3,000,000 ug/kg, respectively. The other confirmation samples did not contain detectable concentrations of VOCs. A risk based Residual Contaminant Level (RCL) was performed and evaluated by Materials Management and Training, Ltd. based on the remaining soil contamination. The remaining soil contaminant concentrations were determined by the previous consultant to be below the risk based RCL and therefore, the WDNR was petitioned for site closure. The WDNR requested

additional investigation to determine groundwater quality at the site. On July 23, 1997, Materials Management & Training Ltd. contracted ESP Enterprises Inc. to install three Geoprobe soil borings from 15 to 20 feet below ground surface. Elevated concentrations of the chlorinated compounds; cis-1,2 Dichloroethene, Tetrachloroethene and Trichloroethene were detected in two of the three soil borings. Soil samples from GP-1 were not analyzed. Please refer to table 1 for analytical results. There currently are no soil quality standards for these compounds, however, any concentration above laboratory detection levels is considered suspect. Perched groundwater was identified during the Geoprobe investigation at approximately 5 feet bgs. One grab water sample was collected from the perched water. Laboratory analysis of the water sample collected from GP-3 indicated a concentration of Benzene (7.0 ug/l) above the WDNR Enforcement Standard (ES) (5.0 ug/l) and Preventive Action Limit (PAL) (0.5 ug/l). The perched groundwater sample also contained concentrations of cis-1,2 Dichloroethene, trans-1,2 Dichloroethene, Tetrachloroethene, Trichloroethane and Vinyl Chloride concentrations above ESs and PALs. The actual groundwater table was not identified during the investigation. Based on the analytical results from the subsurface investigation, remediation and additional investigative activities, Materials Management & Training Ltd. recommended no further action and requested the WDNR grant closure for the subject site based on contaminant concentrations below site specific RCLs and no groundwater impacts. Refer to Appendix C for the complete Materials Management & Training Ltd. Assessment Document Report. MEI, however, recommends additional investigation activities to further define the extent of contamination including the installation of three NR 141 monitoring wells to determine the quality of the groundwater. Based on the analytical results, MEI will then recommend further remedial activities to reduce the contaminate concentrations identified in the soil and groundwater. Remedial recommendations range from a minimum of quarterly monitoring to the installation of an air sparging system to discharge volatile organic compounds to the atmosphere and create an aerobic environment to enhance the degradation of the chlorinated compounds.

TABLE 1
GEOPROBE RESULTS - SOIL
GEHL SITE - 8627-8633 W. LYNX AVENUE, MILWAUKEE, WI

Parameter in Soil	GP-1 5 ft.	GP-1 10 ft.	GP-1 15 ft.	GP-2 5 ft.	GP-2 10 ft.	GP-2 15 ft.	GP-3 5 ft.	GP-3 10 ft.	GP-3 15 ft.	WDNR Standard
Cis-1,2 Dichloroethene	NA	NA	NA	280	ND	ND	490	ND	NA	NSE
Tetrachloroethene	NA	NA	NA	63,000	7,500	ND	83,000	56	NA	NSE
Trichloroethene	NA	NA	NA	310	ND	ND	530	ND	NA	NSE

Key:
Results expressed as ug/kg.
NSE - No Standard Established - anything above lab detection level is suspect.
NA - Not Analyzed
ND - No Detect Above Reporting Limit

TABLE 1
GEOPROBE RESULTS - GROUNDWATER
GEHL SITE - 8627-8633 W. LYNX AVENUE, MILWAUKEE, WI

Parameter in Groundwater	**GP-3 at Perched Water Depth**	**WDNR NR 140 Standard**	
	Analytical Results	**Enforcement Standard**	**Preventive Action Limit**
Benzene	**7.0**	**5.0**	**0.5**
Cis-1,2 Dichloroethene	**3,800**	**70**	**7**
Trans-1,2 Dichloroethene	**25**	**100**	**20**
Tetrachloroethene	**2,200**	**5.0**	**0.5**
Trichloroethane	**430**	**5.0**	**0.5**
Vinyl Chloride	**990**	**0.2**	**0.02**

Key:
Results expressed as ug/l

5.7 Polychlorinated Biphenyls (PCBs)

No pole mounted transformers were noted on or adjacent to the subject site.

5.8 Asbestos

A limited visual observation of the site did not reveal any obvious evidence of asbestos containing materials in the subject facility.

5.9 Fluorescent Light Tubes

A number of different lighting sources were identified during the site walk-through including fluorescent light tubes. MEI did not identify the method of fluorescent light tube disposal at the site. MEI recommends spent fluorescent light tubes, which contain a small amount of mercury and other heavy metals, be segregated from the regular garbage and be properly disposed of with a licensed recycler, per Wisconsin regulation.

5.10 Interview with Site Personnel

Ms. Claudia Gehl, owner of the subject site was instrumental in obtaining and providing information to MEI as it relates to use, storage and disposal of hazardous and non-hazardous substances.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The subject site was built in 1973. The subject site was used for a machine shop by Key Products, Inc. from the late 1970's to the early 1990's. During the time Key Products occupied the subject facility, various chemicals including liquid and solid waste products, paints, paint sludge, solvents, metal machine cuttings, waste oil and/or diesel fuel were spilled from the rear of the warehouse loading dock or leaked from the outside dumpster. Key Products reported a release had occurred in 1996. 226 tons of contaminated soils were removed from the site following an initial subsurface investigation in the area of the loading dock. Additional subsurface investigative activities performed after the remedial excavation indicated chlorinated compounds were present in the groundwater at concentrations above Enforcement Standards and Preventive Action Limits. The soil also contained elevated concentrations of chlorinated compounds, however, no standards have been developed for these contaminants in soil. The WDNR was petitioned by the previous consultant for site closure with no further action. However, based on chlorinated levels in the subsurface closure will not be granted. Therefore, MEI recommends additional investigative and possible remedial activities be performed at the site. Additional soil borings and groundwater monitoring wells should be installed to define the extent of contamination and groundwater quality in the area of the former loading dock. Based on analytical results, MEI

will then recommend a Remedial Action Plan (RAP) to be implemented in order to reduce the concentrations of contaminants which will include quarterly monitoring at a minimum.

MEI also noted the floor drain located in the northwestern corner of the facility contained unknown residue. The former tenant may have spilled/dumped various chemical compounds down the drain. MEI recommends a sewer contractor be contracted to clean out the sewer floor drain

Based on the on-site inspection performed by MEI personnel, MEI finds the subject facility in excellent condition. The floor is free of debris and staining, the drums of paint, hydraulic fluid, metal cutting fluid and oil are labeled and in good condition. The drum contents do not require special hazardous waste disposal, however, the parts hydraulic fluid, cutting fluid and oil should be taken to a local recycler or disposal facility and handled accordingly MEI identified one 30 gallon drum containing approximately 15 gallons of solvent. The drum was not sealed or labeled. MEI recommends the contents of the drum be analyzed, removed from the site and disposed of properly after sealing and labeling. Upon request, MEI will analyze, remove and properly dispose of the drum for the owner of the subject site. MEI noted the use of fluorescent light tubes. MEI recommends the spent fluorescent light tubes be segregated from the regular trash and properly disposed of with a licensed recycler.

Based on MEI's Phase I Environmental Site Assessment, a problematic environmental concern exists in the southeastern portion of the subject site in the area of the former loading dock. MEI does not recommend the sale of the subject site until further investigative and possible remedial activities are conducted to rectify the situation.

APPENDIX A

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

BRENDA LACZKOWSKI

EXPERIENCE

Brenda Laczkowski is a/an Toxicologist/Environmental Scientist with one year experience in the environmental consulting industry. During this time Ms. Laczkowski has been involved in Phase I Environmental Site Assessments, site inspections, regulatory records review, Underground Storage Tank (UST) removal, monitoring well installation and development, subsurface investigations, UST closure assessments, subsurface investigations, site remediation, and Petroleum Environmental Cleanup Fund Act (PECFA) application preparation. Prior to this she worked in the Risk Assessment Division at Argonne National Laboratory (ANL) for two consecutive summers and as an Air Pollution research and teaching assistant at DePaul University. Ms. Laczkowski's experience at DePaul University, ANL and Moraine Environmental, Inc. include:

- Research and Teaching Assistant, DePaul University where she designed air pollution experiments, researched various aspects of air pollution and aided students with laboratory and course work.

- Junior Research Aide, Argonne National Laboratory where her duties included developing and maintaining a data base of solid waste management units, compiling and evaluating the data for chemically and radiologically contaminated sites and assessing project compliance with environmental regulations.

- Senior Research Aide, Argonne National Laboratory where her duties included participation in the scoping and preliminary writing of an Environmental Impact Statement (EIS) of which she researched and evaluated the toxicity of the subject, Depleted Uranium Hexafluoride. She also assessed the short-term and long-term cleanup plans for the Depleted Uranium Hexafluoride. This project was the subject of her master's thesis.

- Toxicologist/Environmental Scientist, Moraine Environmental, Inc. where her responsibilities include soil and groundwater sampling, sample analysis using instruments such as a Flame Ionization Detector (FID) and sample preservation, environmental site assessments for industrial, commercial and residential properties, technical report preparation, CAD drafting, project coordination, liaison between client and the Wisconsin Department of Natural Resources, research of the toxicological properties of contaminants found on subject sites and risk assessment of these sites.

EDUCATION

Master of Science, Environmental Toxicology, University of Minnesota, 1996
Bachelor of Science, Environmental Science, Minor in Biology, DePaul University, 1994
ASTM Risk Based Corrective Action (RBCA)Continuing Education Course, June 1996

CERTIFICATIONS

Forty Hour OSHA Hazardous Training Certification

THOMAS C. SWEET

EXPERIENCE

Thomas C. Sweet is an environmental engineer and Owner/President of Moraine Environmental, Inc. with 22 years experience in surface and groundwater compliance; subsurface environmental investigations; solid, liquid and hazardous waste remediation and environmental facility compliance audits. Mr. Sweet's experience includes the following:

- Manages numerous projects within his firm providing cost effective, hands-on input and solutions to best meet client and project needs. Many of the approaches are very innovative and inexpensive allowing for site closure.

- Project Director for a turn-key, Underground Storage Tank (UST) management program for the City of Milwaukee. The $4 to $5 million dollar project included evaluating compliance options for approximately 80 tanks. Contract implementation included preparing all requisite plans and specifications for contractor selection, coordinating all tank contractors. Where contamination was detected, investigations were conducted and comprehensive plans for soil and groundwater remediation were developed and implemented.

- Projects similar to the City of Milwaukee project were performed for Milwaukee and Waukesha Counties, City of Racine, Los Angeles Unified School District, City of Oak Creek and Langlade County Airport.

- Project Director for a comprehensive UST compliance evaluation and update for a major midwestern oil refiner and distributor with over 60 service stations in Wisconsin. Managed all subsurface investigation activities to include coordinating with general station upgrades or reconstruction, acted as liaison with regulatory agencies and provided technical supervision and priority ranking for cleanup cost reimbursement.

- Project manager for the design and construction of a chromium, nickel, copper, cadmium and silver cyanide plating facility and wastewater pretreatment system at the OMC Evinrude facility in Milwaukee, Wisconsin. Pre-existing process equipment was relocated. The old site was completely decontaminated and closed to meet compliance prior to sale of facility.

- Project manager and client liaison for a hazardous waste investigation for the City of San Diego Redevelopment Agency, San Diego, California. The investigation was conducted to determine the extent of building, soil and groundwater contamination resulting from improper disposal during the 20-year operation of a 20,000-square-foot electroplating facility. Project included assessing the extent of contamination, estimating cost of various cleanup options and conducting internal building cleanup and decontamination prior to building demolition.

- Corporate Environmental engineer responsible for advising and instructing personnel at Outboard Marine Corporation's 21 manufacturing facilities on applicable air, water pollution control, hazardous waste regulations and potential facility environmental liabilities. Other related responsibilities included environmental facility audits to assure that the plants were in compliance with all local, state and federal environmental regulations.

- Project Manager and client liaison for an asbestos investigation of a cold storage facility for the Sunkist Juice Company in Corona, California. Project included sampling and assessing lineal footage of asbestos piping and asbestos sheet rock in the entire facility and presenting options and costs for encapsulation or disposal.

EDUCATION

M.S., Environmental/Sanitary Engineering, University of Wisconsin-Milwaukee, 1978
B.S., Environmental Sciences, University of Wisconsin-Milwaukee, 1973

AFFILIATIONS

Federation of Environmental Technologists - Founder and Past President

APPENDIX B

ECOSEARCH SITE ASSESSMENT REPORT

EcoSearch Environmental Resources, Inc.

8900 Keystone Crossing Suite 1160
Indianapolis, Indiana 46240
ph: (317) 574-8830 fax: (317) 574-8840

EcoSearch Environmental Site Assessment

Type of Report:	Priority Risk Report
Site Location:	**Claudia Gehl Warehouse** **8627-33 West Lynx Avenue** **Milwaukee, WI 53225**
Date:	October 14, 1997
Report ID Number:	1166-401
Especially Prepared For:	Ms. Amy Bucher Moraine Environmental Inc.
PO / Project Number:	0417

Thank you for choosing EcoSearch.

Introduction

We want to thank you for your order requesting the enclosed site assessment.

EcoSearch makes every effort possible to combine the most accurate environmental data available into an understandable and easy-to-use format.

While every attempt has been made to ensure accuracy of the information presented, we cannot guarantee the accuracy of the data from the original sources, nor can we guarantee that no transcription or plotting errors have occurred.

If any concerns arise from your review of the databases in this report, please call the appropriate agency involved. As a service, we have included phone numbers in the database description section of this report to help you in your evaluation.

The enclosed maps present a working approximation of the location of surrounding environmental sites based primarily on available accurate site addresses. These maps should not be used for purposes more correctly handled by surveys.

EcoSearch is driven by its mission to present the most responsive, technically sound, and cost-effective environmental data services available to our customer.

Read Me First

The following suggestions are offered in an attempt to help you in using and understanding this site assessment from EcoSearch:

1. Skim over the entire report to familiarize yourself with its contents and layout.

2. You will notice that the information is presented following this general concept: we begin by giving sections that summarize data and then give detailed information about these summaries as you proceed further into the report.

3. Then refer to the section titled "Statistical Overview". You will need to take a moment to read the column headings and the data below them. Also, as you go down the first column (left side) you will probably need to look back at the preceeding section titled "Database Descriptions". Please pay particular attention to the radius searched as they vary according to the database. These are ASTM standards that we meet and exceed. Your site's datum is the third, shaded column. Also, the next column showing database hits within the first radius is important as it will include data about adjoining properties. The unmappable sites have their own section with a cover page explaining them.

4. The next section titled "Maps" is important as it gives a very clear visual presentation of the site, and which database(s) are at the site itself or within the study radii.

5. The site summary page(s) tells you by map ID# which database is at that location as well as the site's name and distance/direction from your study site. You will notice that the numbering corresponds to the distance from the subject site– eg. #1 is your site itself or the site closest to it, #2 is further away. This continues until all database hits have been summarized within the largest study radius. Your report may extend further than one mile if you asked us to extend the radii.

6. As you will recall our format goes from summary-type pages to detailed information. Therefore, the next section is "Detailed Data". Here extensive data is given about each database hit. The map ID#, distance, and direction are in the top left corner. Further data follows.

7. The "Unmappable" section was referred to earlier. In this summary you will find those sites. Please read the cover page as it describes unmappable sites and our efforts to minimize and/or eliminate them from all of our site assessments.

8. The last two divisions -- "Radon" and "Glossary/Acronyms" are self-explanatory and often helpful to our customers.

If you would like further help in understanding our reports please call as our intention is to have this report helpful to you.

Database Descriptions -- Federal Databases

NPL

National Priorities List

US Environmental Protection Agency
Office of Solid Waste and Emergency Response
(703) 603-8881

Data Date: August 14, 1997
Release Date: August 14, 1997
Active Date: September 29, 1997

The NPL is a subset of the CERCLIS and lists over 1,150 of the nation's most dangerous sites of uncontrolled or hazardous waste which require cleanup. Also known as the Superfund List, the sites are scored according to the hazardous ranking system.

CERCLA

Comprehensive Environmental Response, Compensation, and Liability Information System

US Environmental Protection Agency
Office of Solid Waste and Emergency Response
(800) 775-5037

Data Date: August 14, 1997
Release Date: August 14, 1997
Active Date: September 29, 1997

CERCLIS maintains information on over 15,000 sites nationally identified as hazardous or potentially hazardous which may require action. These sites are currently being investigated or an investigation has been completed regarding the release of hazardous substances. The most serious of this list as ranked by the hazardous ranking system are transferred to the NPL. For more complete information purposes we include sites which have been reclassified as No Further Remedial Action Planned (NFRAP) by the EPA. This action was taken by the EPA beginning February 1995 as a part of the Brownfields Redevelopment Program. These former CERCLIS sites, also known as the CERCLIS Archive, have been delisted because a lack of significant contamination was found.

RCRA TSD

Resource Conservation and Recovery Information System – Treatment, Storage, and Disposal Facilities

US Environmental Protection Agency
Office of Solid Waste and Emergency Response
(202) 260-4348

Data Date: July 31, 1997
Release Date: September 15, 1997
Active Date: October 11, 1997

RCRIS contains information on hazardous waste handlers regulated by the US Environmental Protection Agency under the Resource Conservation and Recovery Act (RCRA). It is a national system used to track events and activities which fall under RCRA. The TSD database is a subset of the complete RCRIS file which includes facilities which treat, store, dispose, or incinerate hazardous waste. Additionally, compliance and corrective action (CORRACTS) information is included.

RCRA Generator

Resource Conservation and Recovery Information System – Large and Small Quantity Generators

US Environmental Protection Agency
Office of Solid Waste and Emergency Response
(202) 260-4347

Data Date: July 31, 1997
Release Date: September 15, 1997
Active Date: October 11, 1997

RCRIS contains information on hazardous waste handlers regulated by the US Environmental Protection Agency under the Resource Conservation and Recovery Act (RCRA). It is a national system used to track events and activities which fall under RCRA. The generators database is a subset of the complete RCRIS file which includes hazardous waste generators which create more than 100kg of hazardous waste per month or meet other requirements of RCRA. We also include RCRA Notifiers, Transporters, and formerly regulated RCRA Sites for more complete hazardous waste information. Additionally, compliance and corrective action information is included.

RAATS

RCRA Administrative Action Tracking System

US Environmental Protection Agency
Office of Enforcement and Compliance Assurance
(202) 564-4104

Data Date: April 14, 1995
Release Date: Not Available
Active Date: April 17, 1995

The RCRA Administrative Action Tracking System contains additional information on RCRA enforcement actions. Data includes the type of action, proposed penalty, and final penalty amount.

Emergency Response Notification System

US Environmental Protection Agency
Office of Solid Waste and Emergency Response
(202) 260-2342

Data Date: February 14, 1997
Release Date: February 14, 1997
Active Date: March 3, 1997

ERNS is a national database which contains information on specific notification of releases of oil and hazardous substances into the environment. The system stores data regarding the site of the spill, the material released, and the medium into which it occured. As a joint effort, the Department of Transportation and the Environmental Protection Agency have collaborated to compile more than 290,000 records.

PADS

PCB Activity Database System

US Environmental Protection Agency
Office of Pollution Prevention and Toxics
(202) 260-3992

Data Date: October 30, 1995
Release Date: Not Available
Active Date: August 1, 1996

This database stores information about facilities which handle PCBs and file EPA form 7710-33. It is divided into storage facilities, disposers, generators, and transporters.

TRI

Toxic Release Inventory

US Environmental Protection Agency
Office of Pollution Prevention and Toxics
(202) 260-1531

Data Date: October 1994
Release Date: Not Available
Active Date: November 16, 1994

TRI contains information from facilities which manufacture, process, or import any of the over 300 listed toxic chemicals which are released directly into air, water, or land or are transported off-site. The database includes facts on amounts of chemicals stored and emitted from the facility. This database is released on an infrequent basis by the US EPA.

SSTS

Section Seven Tracking System

US Environmental Protection Agency
Office of Prevention, Pesticides, and Toxic Substances
(202) 564-5008

Data Date: January 1995
Release Date: Not Available
Active Date: January 24, 1995

Formerly FATES, this system tracks the registration of pesticide-producing establishments and tracks the types and amounts of pesticides, active ingredients, and devices which are sold, produced, or distributed annually.

DOCKET

Civil Enforcement Docket

US Environmental Protection Agency
Office of Enforcement
(202) 564-4114

Data Date: April 22, 1996
Release Date: Not Available
Active Date: October 16, 1996

The Civil Enforcement Docket is information on actions filed by the Department of Justice for the US Environmental Protection Agency. This record has been continually updated since 1972 and includes data regarding facility name, dates, laws violated, and penalties assessed.

TSCA

Toxic Substances Control Act Inventory

US Environmental Protection Agency

(202) 554-1404

Data Date: May 14, 1986
Release Date: Not Available

The Toxic Substances Control Act Inventory includes the locations and chemical production information of more than 7000 processors and manufacturers of chemicals. This database is no longer released to the public by the US EPA.

Database Descriptions -- State Databases

HRL

Wisconsin Hazard Ranking List

Wisconsin Department of Natural Resources
Bureau for Remediation and Redevelopment

Data Date: December 14, 1994
Release Date: Not Available
Active Date: January 11, 1995

This list provides information on known sites or facilities which present a substantial danger to the public health, welfare, or the environment in the State of Wisconsin. It is released on an infrequent basis by the Wisconsin DNR.

ERP

Wisconsin Environmental Repair Program Sites

Wisconsin Department of Natural Resources
Bureau for Remediation and Redevelopment
(608) 261-6424

Data Date: April 7, 1997
Release Date: April 7, 1997
Active Date: April 24, 1997

The Bureau for Remediation and Redevelopment compiles a list of reported contaminated sites slated for cleanup under the Environmental Repair Fund (the Environmental Fund). These sites are associated with a variety of non-LUST contamination.

SWF

Wisconsin Registry of Waste Disposal Sites

Wisconsin Department of Natural Resources
Emergency and Remedial Response Program
(608) 266-2621

Data Date: October 23, 1993
Release Date: Not Available

This database provides information on waste disposal sites in the state of Wisconsin. It is released on an infrequent basis by the DNR.

LUST

Wisconsin Leaking Underground Storage Tank List

Wisconsin Department of Natural Resources
Bureau for Remediation and Redevelopment
(608) 267-3532

Data Date: April 7, 1997
Release Date: April 7, 1997
Active Date: April 24, 1997

This database provides data referring to underground storage tanks with reported releases into the environment.

UST

Wisconsin Registered Underground Storage Tank List

Wisconsin Department of Industry, Labor, and Human Relations
Safety & Buildings Division / Storage Tank Section
(608) 267-1384

Data Date: April 1, 1997
Release Date: Not Available
Active Date: September 24, 1997

The Wisconsin UST List provides the location of registered underground storage tanks in the state of Wisconsin. Please note that fuel oil tanks are excluded from the public list by Wisconsin state statute.

EcoSearch Statistical Overview

Property Information

8627-33 West Lynx Avenue
Milwaukee, WI 53225

Latitude: 43.129557 N Longitude: 88.019142 W

Search Parameters

Report: Priority Risk Report
Radii: ASTM*
Zip Code(s): 53225 53218
City: Milwaukee
County: Milwaukee

FEDERAL DATABASES	Radius (miles)	Mappable Sites					Unmappable Sites		
		Total	Site	within 1/4mi	1/4 - 1/2mi	1/2 - 1mi	Zip Code	City	County
NPL	1.000	0	0	0	0	0	0	0	0
CERCLA	1.000	1	0	0	1	0	0	0	0
RCRA TSD	1.000	0	0	0	0	0	0	-	-
RCRA Generator	0.250	3	1	2	-	-	0	-	-
ERNS	0.250	0	0	0	-	-	-	-	-
PADS	1.000	0	0	0	0	0	0	-	-
TRI	0.500	1	0	0	1	-	0	-	-
SSTS	1.000	0	0	0	0	0	0	-	-
DOCKET	1.000	0	0	0	0	0	0	0	0
TSCA	1.000	0	0	0	0	0	0	-	-

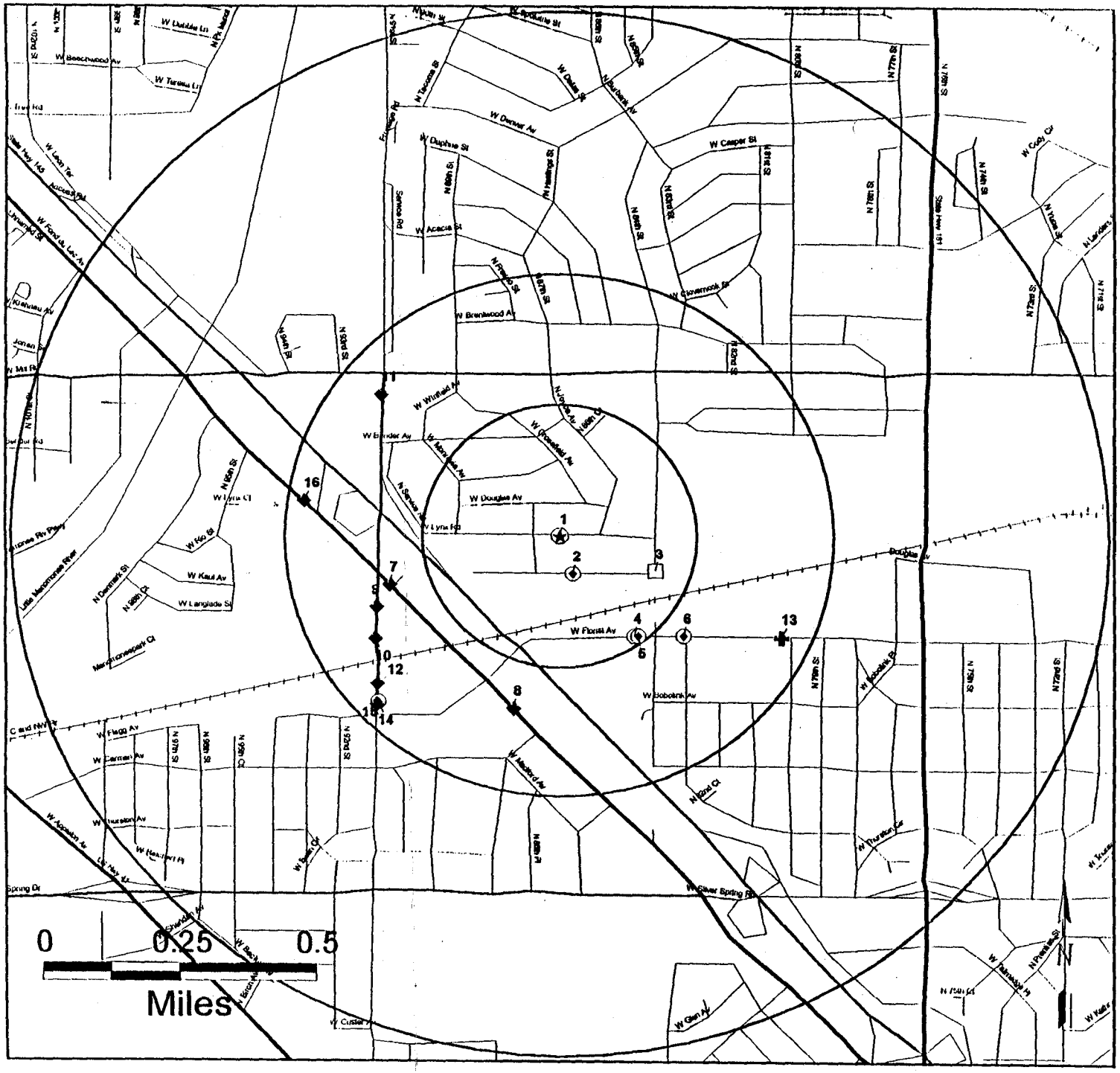
STATE DATABASES	Radius (miles)	Mappable Sites					Unmappable Sites		
		Total	Site	within 1/4mi	1/4 - 1/2mi	1/2 - 1mi	Zip Code	City	County
HRL	1.000	0	0	0	0	0	0	-	-
ERP	1.000	2	0	1	1	0	0	0	0
SWF	1.000	2	0	0	2	0	0	-	-
LUST	0.500	11	0	2	9	-	0	0	0
UST	0.250	2	0	2	-	-	0	1	-

* This database search and study radii meets or exceeds the ASTM (American Society of Testing and Materials)standards for a government records review. N/A denotes an ASTM-required database which is not available from the state.

Accurate street addresses are required for records to be found at the study property.

Mappable Sites are environmental sites which were located and appear on the enclosed EcoSearch Map, Site Summary, and Detailed Data sections of the report. These sites are summarized based on proximity to the study site.

Unmappable Sites are governmental records with incomplete or inaccurate address information. These sites could not be located on the street map, but have been searched by the Zip Codes, Cities, and County specified in the search parameters. Further investigation of these sites and their relationship to your study site is necessary.



Note: The information contained on this map is subject to the general disclaimer on the first page.

EcoSearch Environmental Resources, Inc.

Priority Risk Report Map

Report ID: 1166-401
Site: 8627-33 West Lynx Avenue
Milwaukee, WI 53225

★ Study Site
Study Site Matches Database

FEDERAL DATABASES	Radius (mi)
NPL Sites	1.00
CERCLA Sites	1.00
RCRA TSD Sites	1.00
RCRA Generator Sites	0.25
ERNS Sites	0.25
PADS Sites	1.00
TRI Sites	0.50
SSTS Sites	1.00
DOCKET Sites	1.00
TSCA Sites	1.00

STATE DATABASES	
HRL Sites	1.00
ERP Sites	1.00
SWF Sites	1.00
LUST Sites	0.50
UST Sites	0.25

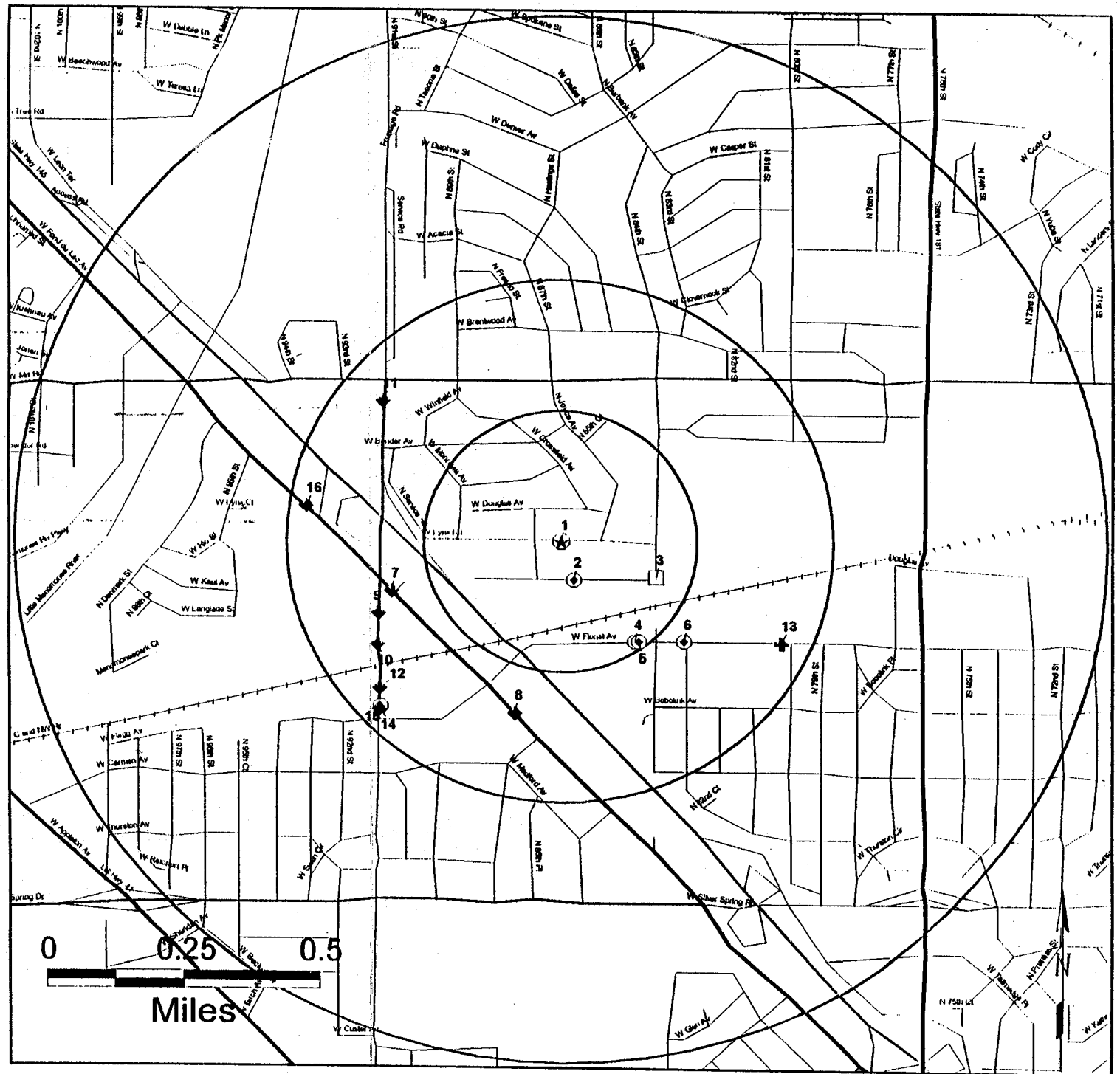
MULTIPLE MATCHES

Two Database Matches
Three or More Matches

MAP LEGEND

Parks
Incorp. Areas
Water
Cemeteries
Streets
Secondary Roads
Primary Roads
Freeways
Railroads
Boundaries

Radii: 1/4 mile, 1/2 mile, 1 mile



Note: The information contained on this map is subject to the general disclaimer on the first page.

EcoSearch Environmental Resources, Inc.

Priority Risk Report Map

Report ID: 1166-401
Site: 8627-33 West Lynx Avenue
Milwaukee, WI 53225

★ Study Site
Study Site Matches Database

FEDERAL DATABASES	Radius
NPL Sites	1
CERCLA Sites	1
RCRA TSD Sites	1
RCRA Generator Sites	0
ERNS Sites	0
PADS Sites	1
TRI Sites	0
SSTS Sites	1
DOCKET Sites	1
TSCA Sites	1

STATE DATABASES	
HRL Sites	1
ERP Sites	1
SWF Sites	1
LUST Sites	0
UST Sites	0

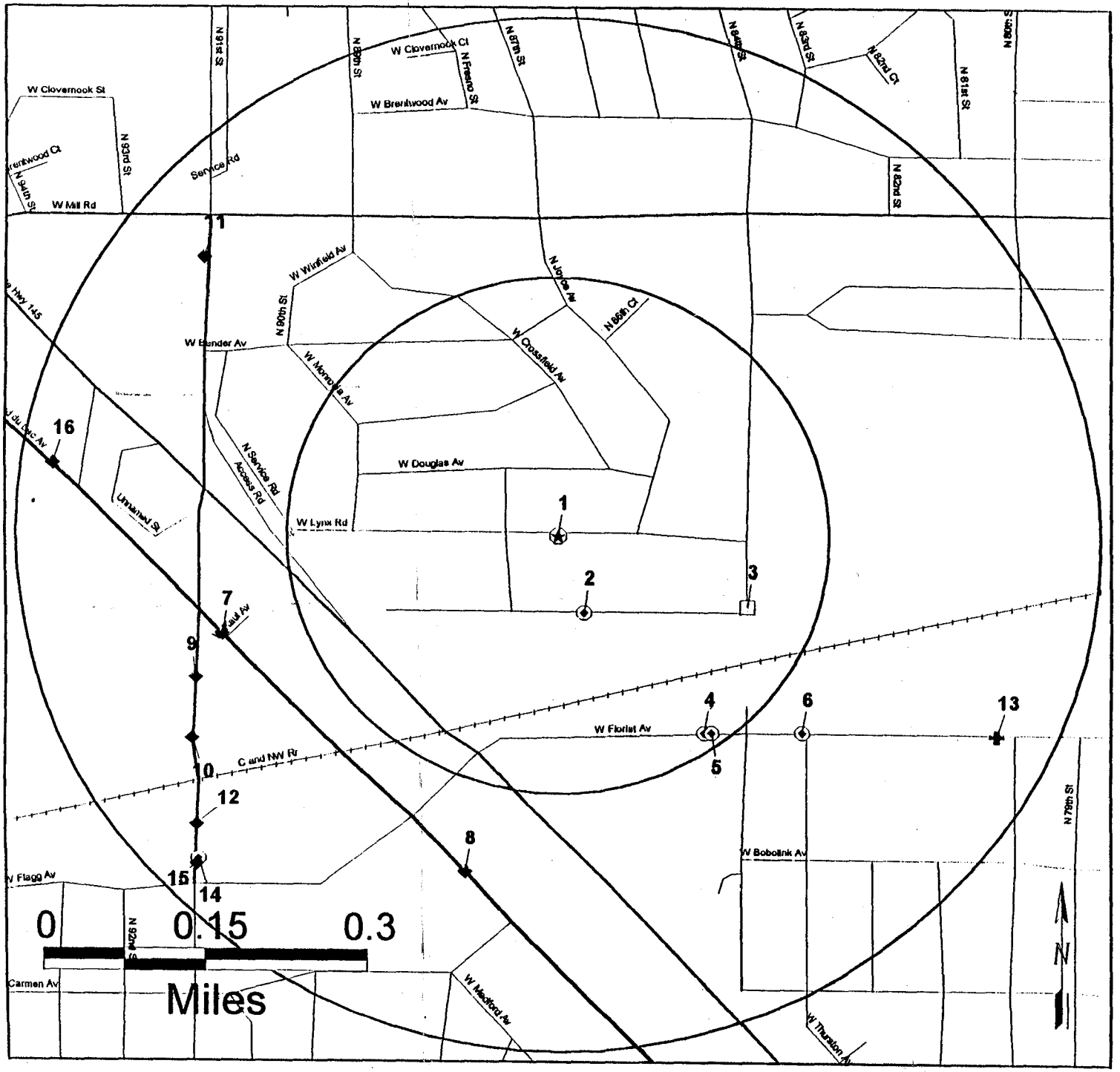
MULTIPLE MATCHES

Two Database Matches
Three or More Matches

MAP LEGEND

Parks
Incorp. Areas
Water
Cemeteries
Streets
Secondary Ro
Primary Roads
Freeways
Railroads
Boundaries

Radii: 1/4 mile, 1/2 mile, 1 mile



Note: The information contained on this map is subject to the general disclaimer on the first page.

EcoSearch Environmental Resources, Inc.

Priority Risk Report Map

Report ID: 1166-401
Site: 8627-33 West Lynx Avenue
Milwaukee, WI 53225

★ Study Site
Study Site Matches Database

FEDERAL DATABASES	Radius (mi)
NPL Sites	1.00
CERCLA Sites	1.00
RCRA TSD Sites	1.00
RCRA Generator Sites	0.25
ERNS Sites	0.25
PADS Sites	1.00
TRI Sites	0.50
SSTS Sites	1.00
DOCKET Sites	1.00
TSCA Sites	1.00

STATE DATABASES	
HRL Sites	1.00
ERP Sites	1.00
SWF Sites	1.00
LUST Sites	0.50
UST Sites	0.25

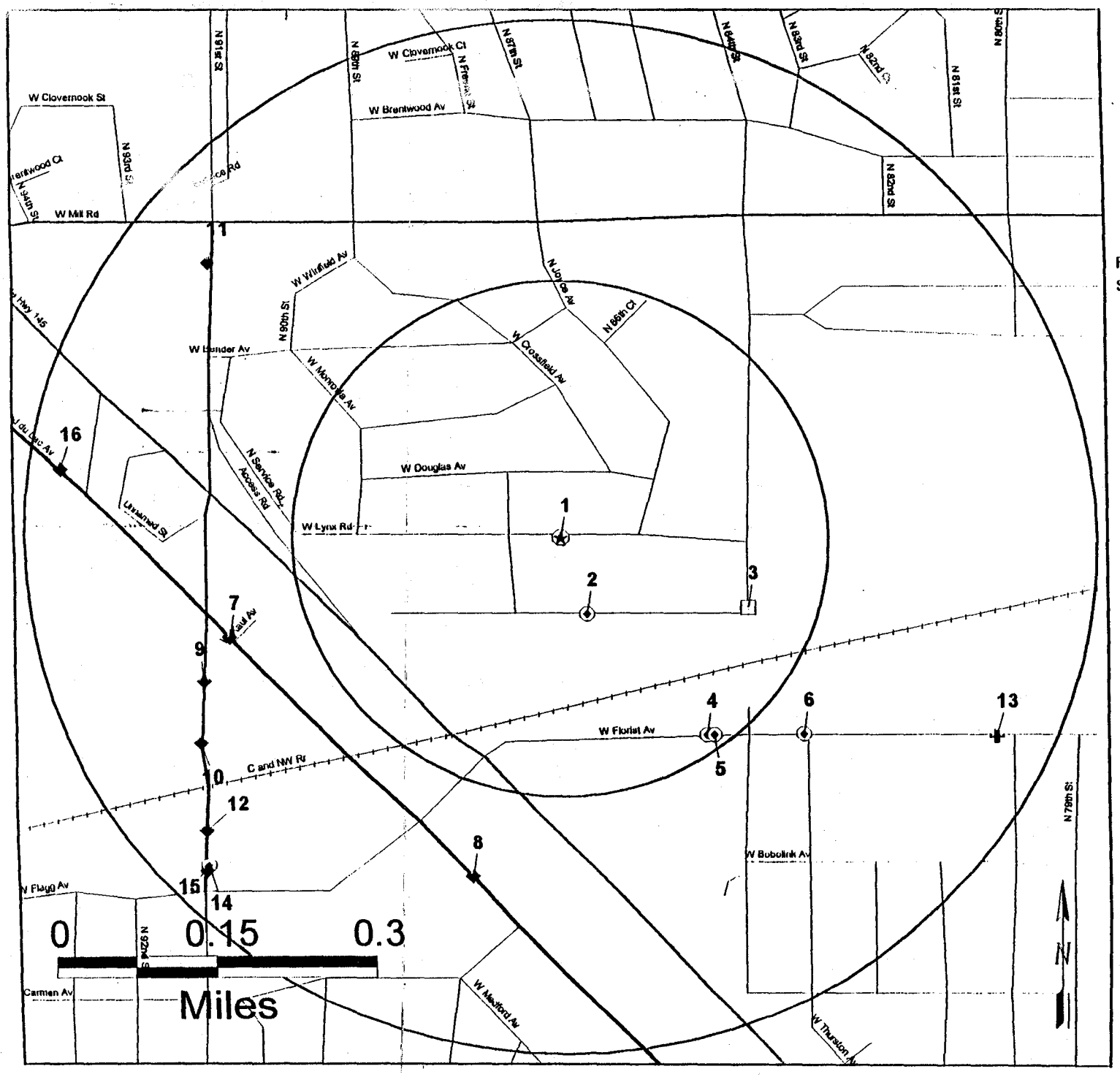
MULTIPLE MATCHES

Two Database Matches
Three or More Matches

MAP LEGEND

Parks
Incorp. Areas
Water
Cemeteries
Streets
Secondary Roads
Primary Roads
Freeways
Railroads
Boundaries

Radii: 1/4 mile, 1/2 mile, 1 mile



Note: The information contained on this map is subject to the general disclaimer on the first page.

EcoSearch Environmental Resources, Inc.

Priority Risk Report Map

Report ID: 1166-401

Site: 8627-33 West Lynx Avenue
Milwaukee, WI 53225

★ Study Site

Ⓐ Study Site Matches Database

FEDERAL DATABASES	Radius (mi)
NPL Sites	1.00
CERCLA Sites	1.00
RCRA TSD Sites	1.00
RCRA Generator Sites	0.25
ERNS Sites	0.25
PADS Sites	1.00
TRI Sites	0.50
SSTS Sites	1.00
DOCKET Sites	1.00
TSCA Sites	1.00

STATE DATABASES	
HRL Sites	1.00
ERP Sites	1.00
SWF Sites	1.00
LUST Sites	0.50
UST Sites	0.25

MULTIPLE MATCHES

Ⓐ Two Database Matches

Ⓐ Three or More Matches

MAP LEGEND

Parks

Incorp. Areas

Water

Cemeteries

Streets

Secondary Roads

Primary Roads

Freeways

Railroads

Boundaries

Radii: 1/4 mile, 1/2 mile, 1 mile

Site Summary

Map ID#	Database / Agency ID#	Site Name, Address, and County	Distance/Direction
1	RCRA Generator RCRA Notifier Site WID988605622	KEY PRODUCTS INC 8633 W LYNX AVE MILWAUKEE, WI 53225-1929 MILWAUKEE	0.00000 mi -
2A	LUST Wisconsin Leaking Underground Storage Tank 31642	HAMPTON PLUMBING COMPANY 8617 W KAUL AVE MILWAUKEE, WI 53225-2023 MILWAUKEE	0.07767 mi SSE
2B	UST Wisconsin Underground Storage Tank EJ402001219	HAMPTON PLUMBING COMPANY INC 8617 W KAUL AVE MILWAUKEE, WI 53225-2096 MILWAUKEE	0.07767 mi SSE
3	ERP Wisconsin Environmental Repair Program Site 35639	PENTLER PROPERTY 6100-6200 N 84TH ST MILWAUKEE, WI 53225 MILWAUKEE	0.18656 mi ESE
4A	LUST Wisconsin Leaking Underground Storage Tank 30850	MILWAUKEE CITY 8424 W FLORIST AVE MILWAUKEE, WI 53225-2009 MILWAUKEE	0.23335 mi SE
4B	RCRA Generator RCRA Large Quantity Generator WID988573564	MILWAUKEE CITY OF 8424 W FLORIST AVE MILWAUKEE, WI 53225-2009 MILWAUKEE	0.23335 mi SE
5A	RCRA Generator RCRA Small Quantity Generator WID988640819	NORTHWEST YARD 8414 W FLORIST AVE MILWAUKEE, WI 53225-2009 MILWAUKEE	0.23721 mi SE
5B	UST Wisconsin Underground Storage Tank EJ402004111	NORTHWEST YARD (N SIDE BLDG) 8414 W FLORIST AVE MILWAUKEE, WI 53225-2009 MILWAUKEE	0.23721 mi SE
6A	SWF Wisconsin Solid Waste Facility ECO2203931	RUEBEN KATZ SW NE S28 08N 21E MILWAUKEE, WI MILWAUKEE	0.29400 mi ESE
6B	ERP Wisconsin Environmental Repair Program Site 34108	KATZ PROPERTY/WI METAL & CHEM 8300 W FLORIST AVE MILWAUKEE, WI 53218-1746 MILWAUKEE	0.29400 mi ESE
7	LUST Wisconsin Leaking Underground Storage Tank 30869	MOBIL OIL (FORMER) 9058 W FOND DU LAC AVE MILWAUKEE, WI 53225-2033 MILWAUKEE	0.32404 mi WSW
8	LUST Wisconsin Leaking Underground Storage Tank 26516	IGL WIS 8768 W FOND DU LAC AVE MILWAUKEE, WI 53225-2015 MILWAUKEE	0.33943 mi SSW
9	LUST Wisconsin Leaking Underground Storage Tank 27489	GOODWILL INDUSTRIES INC 6055 N 91ST ST MILWAUKEE, WI 53225-1710 MILWAUKEE	0.36118 mi WSW

Site Summary

Map ID#	Database / Agency ID#	Site Name, Address, and County	Distance/Direction
10	LUST Wisconsin Leaking Underground Storage Tank 30528	GENERAL LUMBER & SUPPLY CO INC 6001 N 91ST ST MILWAUKEE, WI 53225-1721 MILWAUKEE	0.39029 mi WSW
11	LUST Wisconsin Leaking Underground Storage Tank 32678	LARRY'S AUTO CLINIC LTD 6373 N 91 MILWAUKEE WI 5322, WI MILWAUKEE	0.42177 mi WNW
12	LUST Wisconsin Leaking Underground Storage Tank 32215	KAUL OIL CO 5931 N 91ST ST MILWAUKEE, WI 53225-2728 MILWAUKEE	0.43644 mi WSW
13	TRI Toxic Release Inventory Site 53218MLWKM8000W	MILWAUKEE METAL PRODUCTS CO. 8000 W FLORIST AVE MILWAUKEE, WI 53218-1 MILWAUKEE	0.44716 mi ESE
14A	SWF Wisconsin Solid Waste Facility ECO2203933	SINCLAIR & VALENTINE CO 5888 N 91TH ST MILWAUKEE, WI MILWAUKEE	0.45864 mi SW
14B	CERCLA CERCLA Site (Delisted NFRAP Site) WID000711168	FLINT INK CORP 5888 N 91ST ST MILWAUKEE, WI 53225-2749 MILWAUKEE	0.45864 mi SW
14C	LUST Wisconsin Leaking Underground Storage Tank 20143	FLINT INK CORP 5888 N 91ST ST MILWAUKEE, WI 53225-2749 MILWAUKEE	0.45864 mi SW
15	LUST Wisconsin Leaking Underground Storage Tank 31256	KAUL MART 5881 N 91ST ST MILWAUKEE, WI 53225-2726 MILWAUKEE	0.46406 mi SW
16	LUST Wisconsin Leaking Underground Storage Tank 23985	KRAFT FOODSERVICE MILWAUKEE W137N9245 STATE ROAD 145 MENOMONEE FALLS, WI 53051-1607 WAUKESHA	0.47012 mi W

Detailed Data

The following pages contain the detailed data concerning the sites plotted on the map and included in the site summary.

Please Note: Pages are not included for databases not found within the search radii.

These pages are arranged as follows:

Delisted CERCLA Data

RCRA TSD and Generators Data

TRI Data

Wisconsin ERP Data

Wisconsin SWF Data

Wisconsin LUST Data

Wisconsin UST Data

CERCLA Archive Data

Delisted Comprehensive Environmental Response, Compensation, and Liability Act Sites (Archive Sites)

Map ID#: 14B
Distance (mi): 0.458644
Direction: SW

Status: This site has been delisted from CERCLIS
No Further Remedial Action Planned

Facility Name: FLINT INK CORP
Address: 5888 N 91ST ST
City, State, Zip: MILWAUKEE, WI 53225
County: MILWAUKEE

EPA ID#: WID000711168
Federal Facility Indicator: Not a Federal Facility
Ownership Indicator: Other
Site Description: Not Reported
Comments: Not Reported

NPL Status: Not on the NPL
Federal Facilities Docket Status: Not on Original Federal Facilities Docket
Incident Type (Oil/Non-Oil Spill): Not Reported
RCRIS Facility Indicator: Not Reported

Event	Date Started	Date Completed
DISCOVERY	Not Reported	06/01/81
PRELIMINARY ASSESSMENT	Not Reported	01/01/85

RCRA TSD and Generators Data

Facility and Compliance Information

Map ID#: 1 Distance (mi): 0.000000 Direction: -
EPA ID#: WID988605622
Status: RCRA Notifier (Former RCRA Site)

Land Type: Private Land

Name: KEY PRODUCTS INC
Address: 8633 W LYNX AVE
City, State, Zip: MILWAUKEE WI 53225

SIC Code: Unknown
Contact Name: GERALD LEAF
Contact Phone: 414-464-5980

RCRA Evaluation / Violation / Enforcement Data

No Compliance Information Reported

RAATS (RCRA Administrative Action Tracking System) Data

No RAATS Information Reported for this Site

RCRA Corrective Action Data (CORRACTS)

No Corrective Action Instrument Information for this Site

Map ID#: 4B Distance (mi): 0.233353 Direction: SE
EPA ID#: WID988573564
Status: Large Quantity Generator

Land Type: Unknown

Name: MILWAUKEE CITY OF
Address: 8424 W FLORIST AVE
City, State, Zip: MILWAUKEE WI 53225

SIC Code: Unknown
Contact Name: STEVEN BRACHMAN
Contact Phone: 414-278-3319

RCRA Evaluation / Violation / Enforcement Data

No Compliance Information Reported

RAATS (RCRA Administrative Action Tracking System) Data

No RAATS Information Reported for this Site

RCRA Corrective Action Data (CORRACTS)

No Corrective Action Instrument Information for this Site

Map ID#: 5A Distance (mi): 0.237211 Direction: SE
EPA ID#: WID988640819
Status: Small Quantity Generator

Land Type: Municipal Land

Name: NORTHWEST YARD
Address: 8414 W FLORIST AVE
City, State, Zip: MILWAUKEE WI 53225

SIC Code: Unknown
Contact Name: RICHARD WOZNIAK
Contact Phone: 414-286-5591

RCRA Evaluation / Violation / Enforcement Data

No Compliance Information Reported

RAATS (RCRA Administrative Action Tracking System) Data

No RAATS Information Reported for this Site

RCRA Corrective Action Data (CORRACTS)

RCRA Wastes and Waste Code Information previously reported by EcoSearch have been removed from the RCRIS database by the USEPA.

RCRA TSD and Generators Data

Facility and Compliance Information

No Corrective Action Instrument Information for this Site

RCRA Wastes and Waste Code Information previously reported by EcoSearch have been removed from the RCRIS database by the USEPA.

TRI Data

Toxic Release Inventory Data

Map ID#: 13 Distance: 0.447163
Direction: ESE

Agency ID: 53218MLWKM8000W
EPA ID#: WID981097769
IC Code 3499

Name: MILWAUKEE METAL PRODUCTS CO.
Address: 8000 W. FLORIST AVE.
City, State, Zip: MILWAUKEE, WI 532181795

Submission Year: 1987 Substance: 1,1,1-TRICHLOROETHANE
Maximum Amount On Site (lbs): 1,000 TO 9,999
Amount Released or Transported Previous Year (lbs):

Air	Water	Underground	Land	Pub. Owned Treatment	Offsite Transfer	Total
26750.00	0.00	0.00	0.00	250.00	0.00	27000.00

Submission Year: 1988 Substance: 1,1,1-TRICHLOROETHANE
Maximum Amount On Site (lbs): 1,000 TO 9,999
Amount Released or Transported Previous Year (lbs):

Air	Water	Underground	Land	Pub. Owned Treatment	Offsite Transfer	Total
38750.00	0.00	0.00	0.00	250.00	0.00	39000.00

Submission Year: 1989 Substance: 1,1,1-TRICHLOROETHANE
Maximum Amount On Site (lbs): 1,000 TO 9,999
Amount Released or Transported Previous Year (lbs):

Air	Water	Underground	Land	Pub. Owned Treatment	Offsite Transfer	Total
46000.00	0.00	0.00	0.00	250.00	0.00	46250.00

Submission Year: 1990 Substance: 1,1,1-TRICHLOROETHANE
Maximum Amount On Site (lbs): 1,000 TO 9,999
Amount Released or Transported Previous Year (lbs):

Air	Water	Underground	Land	Pub. Owned Treatment	Offsite Transfer	Total
43750.00	0.00	0.00	0.00	5.00	0.00	43755.00

Submission Year: 1991 Substance: 1,1,1-TRICHLOROETHANE
Maximum Amount On Site (lbs): 1,000 TO 9,999
Amount Released or Transported Previous Year (lbs):

Air	Water	Underground	Land	Pub. Owned Treatment	Offsite Transfer	Total
31805.00	0.00	0.00	0.00	5.00	7600.00	39410.00

Submission Year: 1992 Substance: 1,1,1-TRICHLOROETHANE
Maximum Amount On Site (lbs): 1,000 TO 9,999
Amount Released or Transported Previous Year (lbs):

Air	Water	Underground	Land	Pub. Owned Treatment	Offsite Transfer	Total
43905.00	0.00	0.00	0.00	5.00	3944.00	47854.00

Wisconsin ERP Data

Wisconsin Environmental Repair Program Data

Map ID#: 3
Agency ID: 35639

Distance (mi): 0.18656
Direction: ESE

Name: PENTLER PROPERTY
Address: 6100-6200 N 84TH ST
City, State: MILWAUKEE WI

Actions:

Action Date	Action Type / Additonal Notes
28-APR-94	NOTIFICATION

Impact:

GROUNDWATER CONTAMINATION
SOIL CONTAMINATION

Substance(s)

Metals
RCRA Hazardous Waste

Responsible Party Information

/ HAROLD PENTLER / 350 W GREEN TREE RD / MILWAUKEE, WI 53217

Map ID#: 6B
Agency ID: 34108

Distance (mi): 0.29400
Direction: ESE

Name: KATZ PROPERTY/WI METAL & CHEM
Address: 8300 W FLORIST
City, State: MILWAUKEE WI

Actions:

Action Date	Action Type / Additonal Notes
01-JAN-80	NOTIFICATION

Impact:

SOIL CONTAMINATION
DIRECT CONTACT

Responsible Party Information

/ DONALD GROOTEMAAT / 9000 W FOND DU LAC AVE / MILWAUKEE, WI 53225
/ RUEBEN M KATZ / 9000 W FOND DU LAC AVE / MILWAUKEE, WI 53225

Wisconsin SWF Data

Wisconsin Solid Waste Facilities Data

Map ID#: 6A
Distance (mi): 0.29400
Direction: ESE
Name: RUEBEN KATZ
Address:
Agency ID: ECO2203931
City, State, Zip: MILWAUKEE, WI

Status Information: DIST FILES
Legal Description: SW NE S28 08N 21E

Map ID#: 14A
Distance (mi): 0.45864
Direction: SW
Name: SINCLAIR & VALENTINE CO
Address: 5888 N 91TH ST
Agency ID: ECO2203933
City, State, Zip: MILWAUKEE, WI

Status Information: ERRIS 10-20-83
Legal Description:

Wisconsin LUST Data

Wisconsin Leaking Underground Storage Tank Data

Map ID#: 2A
Agency ID: 31642

Distance (mi): 0.07767
Direction: SSE

Name: HAMPTON PLUMBING COMPANY
Address: 8617 W KAUL AVE
City, State: MILWAUKEE WI

Actions

Action Date	Action Type / Additonal Notes
19-MAY-94	NOTIFICATION
19-MAY-94	RP LETTER SENT / RP LETTER
16-SEP-94	SI REPORT RECEIVED
24-OCT-94	MISCELLANEOUS/2 / FORM 4 RECD
08-DEC-94	SI REPORT RECEIVED/2
16-DEC-94	FORM 4 APPROVED/2
30-JUN-95	SI WORKPLAN RECEIVED / SI WORK PLAN RECV'D
06-MAR-96	RA REPORT RECEIVED
06-MAR-96	MISCELLANEOUS / FORM 4 RECD
06-MAR-96	CLOSEOUT REVIEW REQUESTED
27-MAR-96	CLOSEOUT DENIED
27-MAR-96	REQUEST FOR FURTHER WORK
27-MAR-96	FORM 4 APPROVED
17-OCT-96	QUARTERLY/MONTHLY STATUS REPO
14-JAN-97	MISCELLANEOUS/3 / FORM 4 RECD

Impact

SOIL CONTAMINATION

Substance(s)

Leaded Gas / LEADED GAS

Responsible Party Information

HAMPTON PLUMBING CO / / 8617 W KAUL AVE / MILWAUKEE, WI 53225

Map ID#: 4A
Agency ID: 30850

Distance (mi): 0.23335
Direction: SE

Name: MILWAUKEE CITY
Address: 8424 W FLORIST AVE.
City, State: MILWAUKEE WI

Actions

Action Date	Action Type / Additonal Notes
14-MAR-91	NOTIFICATION
25-MAR-91	RP LETTER SENT
23-JUN-93	MISCELLANEOUS / CASE CLOSED
23-JUN-94	MISCELLANEOUS / CASE WAS RE-OPENED DUE TO A NEW RELEASE
24-FEB-95	FORM 4 APPROVED
10-JUN-96	LUST ACTIVITY MOVED TO DOC

Impact

SOIL CONTAMINATION

Substance(s)

Fuel Oil / FUEL OIL

Responsible Party Information

MILWAUKEE CTY / / 841 N BROADWAY / MILWAUKEE, WI 53202

Map ID#: 7
Agency ID: 30869

Distance (mi): 0.32404
Direction: WSW

Name: MOBIL OIL (FORMER)
Address: 9058 W FOND DU LAC AVE
City, State: MILWAUKEE WI

Actions

Action Date	Action Type / Additonal Notes
19-JUL-93	NOTIFICATION
06-OCT-93	RP LETTER SENT
28-APR-95	QUARTERLY/MONTHLY STATUS REPO / QRTLY/MTHLY STATUS RPT
22-FEB-96	RA REPORT RECEIVED

Wisconsin LUST Data

Wisconsin Leaking Underground Storage Tank Data

24-JAN-97	CLOSEOUT REVIEW REQUESTED
27-MAR-97	ACTIVITY CLOSED

Impact
GROUNDWATER CONTAMINATION
SOIL CONTAMINATION

Substance(s)
Unleaded Gas / UNLEADED GAS
Fuel Oil / FUEL OIL
Waste Oil / WASTE OIL

Responsible Party Information
MOBIL OIL / / 1515 WOODFIELD DR / SCHAUMBURG, IL 60173

Map ID#: 8 | Distance (mi): 0.33943 | Direction: SSW | Name: IGL WIS | Address: 8768 W FOND DU LAC AVE | Agency ID: 26516 | City, State: MILWAUKEE | WI

Actions

Action Date	Action Type / Additonal Notes
21-DEC-90	NOTIFICATION
29-JAN-91	RP LETTER SENT / RP LETTER, LOW
02-NOV-92	ACTIVITY CLOSED

Impact
SOIL CONTAMINATION

Substance(s)
Leaded Gas

Responsible Party Information
IGL WISCONSIN / / 8768 W FOND DU LAC AVE / MILWAUKEE, WI 53222

Map ID#: 9 | Distance (mi): 0.36118 | Direction: WSW | Name: GOODWILL INDUSTRIES INC | Address: 6055 N 91ST ST | Agency ID: 27489 | City, State: MILWAUKEE | WI

Actions

Action Date	Action Type / Additonal Notes
17-MAY-91	NOTIFICATION
28-MAY-91	RP LETTER SENT / RP LETTER, HIGH
25-SEP-95	RA WORKPLAN RECEIVED / RA WORK PLAN RECV'D
25-SEP-95	RA WORKPLAN APPROVED / RA WORK PLAN APPV'D
12-APR-96	RA REPORT RECEIVED
06-DEC-96	LUST ACTIVITY TRANSFERRED FRO
06-DEC-96	MISCELLANEOUS / RERANK TO HIGH

Impact
SOIL CONTAMINATION

Substance(s)
Diesel

Responsible Party Information
GOODWILL INDUSTRIES / / 6055 N 91ST ST / MILWAUKEE, WI 53225

Map ID#: 10 | Distance (mi): 0.39029 | Direction: WSW | Name: GENERAL LUMBER & SUPPLY CO INC | Address: 6001 N 91ST ST | Agency ID: 30528 | City, State: MILWAUKEE | WI

Wisconsin LUST Data

Wisconsin Leaking Underground Storage Tank Data

Actions

Action Date	Action Type / Additonal Notes
28-JUL-92	NOTIFICATION
14-OCT-93	RP LETTER SENT
29-JUN-94	TANK CLOSURE/SA REPORT RECEIV / TNK CLS/SA REPT RECV'D
29-JUN-94	SI REPORT RECEIVED / SI REPORT RECV'D
29-JUN-94	RA REPORT RECEIVED / RA REPORT RECV'D
22-MAR-95	SI REPORT RECEIVED / SI REPORT RECV'D
22-MAR-95	QUARTERLY/MONTHLY STATUS REPO / QRTLY/MTHLY STATUS RPT
31-MAR-95	ACTIVITY CLOSED

Impact

SOIL CONTAMINATION

Substance(s)

Other / GASOLINE

Responsible Party Information

GENERAL LUMBER / / 6001 N 91ST ST / MILWAUKEE, WI 53225

Map ID#: 11
Agency ID: 32678

Distance (mi): 0.42177
Direction: WNW

Name: LARRY'S AUTO CLINIC LTD
Address: 6373 N 91
City, State: MILWAUKEE WI 5322 WI

Actions

Action Date	Action Type / Additonal Notes
20-OCT-95	NOTIFICATION
21-DEC-95	RP LETTER SENT / RP LETTER

Impact

SOIL CONTAMINATION

Substance(s)

Unleaded Gas / UNLEADED GAS

Responsible Party Information

LARRY'S AUTO CLINIC LTD / / 6373 N 91 / MILWAUKEE, WI 53225

Map ID#: 12
Agency ID: 32215

Distance (mi): 0.43644
Direction: WSW

Name: KAUL OIL CO
Address: 5931 N 91ST ST
City, State: MILWAUKEE WI

Actions

Action Date	Action Type / Additonal Notes
25-JUL-90	MISCELLANEOUS / FIELD INVESTIGATION
31-JUL-90	NOTIFICATION
05-SEP-90	RP LETTER SENT / RP LETTER
09-SEP-90	MISCELLANEOUS / INITIAL SITE ASSESSMENT REC'D
27-FEB-91	MISCELLANEOUS / SOIL TRACKING REPORT REC'D
08-APR-91	SI REPORT RECEIVED / SI REPORT RECV'D, RAP REC'D
01-JUL-91	MISCELLANEOUS / APPL. TO TREAT/DISPOSE CONTAMINATED SOIL REC
24-OCT-95	RA REPORT RECEIVED / RA REPORT RECV'D
21-JUN-96	SI WORKPLAN RECEIVED

Impact

SOIL CONTAMINATION

Substance(s)

Leaded Gas / LEADED GAS
Unleaded Gas / UNLEADED GAS
Diesel / DIESEL

Wisconsin LUST Data

Wisconsin Leaking Underground Storage Tank Data

Responsible Party Information

KAUL OIL CO / / 5931 N 91ST ST / MILWAUKEE, WI 53225

Map ID#: 14C
Agency ID: 20143

Distance (mi): 0.45864
Direction: SW

Name: FLINT INK CORP
Address: 5888 N 91ST ST
City, State: MILWAUKEE WI

Actions

Action Date	Action Type / Additonal Notes
08-FEB-88	NOTIFICATION
06-JAN-89	MISCELLANEOUS / WORK PLAN REVIEWED AND APPROVED
28-MAY-92	ACTIVITY CLOSED

Impact

SOIL CONTAMINATION

Substance(s)

Fuel Oil / FUEL OIL

Responsible Party Information

SINCLAIR AND VALENTINE LP / / 5888 N 91ST ST / MILWAUKEE, WI 53225

Map ID#: 15
Agency ID: 31256

Distance (mi): 0.46406
Direction: SW

Name: KAUL MART
Address: 5881 N 91ST ST
City, State: MILWAUKEE WI

Actions

Action Date	Action Type / Additonal Notes
03-DEC-93	NOTIFICATION
21-DEC-93	RP LETTER SENT / RP LETTER
14-JUN-96	LUST ACTIVITY MOVED TO DOC

Impact

SOIL CONTAMINATION

Responsible Party Information

KAUL OIL CO / / 5931 N 91ST ST / MILWAUKEE, WI 53225

Map ID#: 16
Agency ID: 23985

Distance (mi): 0.47012
Direction: W

Name: KRAFT FOODSERVICE MILWAUKEE
Address: W137N9245 HWY 145
City, State: MENOMONEE FALLS WI

Actions

Action Date	Action Type / Additonal Notes
25-APR-90	NOTIFICATION
04-MAY-90	RP LETTER SENT
18-JUN-91	SI WORKPLAN APPROVED / SI WORK PLAN APPV'D
13-JAN-95	QUARTERLY/MONTHLY STATUS REPO / QRTLY/MTHLY STATUS RPT
23-MAR-95	FORM 4 APPROVED
30-MAR-95	QUARTERLY/MONTHLY STATUS REPO / QRTLY/MTHLY STATUS RPT
25-JUL-95	QUARTERLY/MONTHLY STATUS REPO / QRTLY/MTHLY STATUS RPT

Impact

SOIL CONTAMINATION

Substance(s)

Leaded Gas
Unleaded Gas
Diesel

Responsible Party Information

Wisconsin LUST Data

Wisconsin Leaking Underground Storage Tank Data

KRAFT/MUELLER FOOD SERVICE / / / MENOMONEE FALLS, WI 53051

Wisconsin UST Data

Wisconsin Underground Storage Tank Data

Map ID#: 2B
Distance (mi): 0.07767
Direction: SSE
EcoSearch Site ID: EJ402001219
Name: HAMPTON PLUMBING COMPANY INC
Address: 8617 W KAUL AVE
City, State, Zip: MILWAUKEE, WI 53225

Tank Information:

402001219	Status:	Closed--Tank Removed	Contents:	Leaded	Installed:	1/01/1999
	User Type:	Other	Capacity:	000300	Abandoned:	11/01/1988
			Construction:	Unknown	Out of Service:	Not Reported
402001220	Status:	Closed--Tank Removed	Contents:	Leaded	Installed:	9/01/1975
	User Type:	Other	Capacity:	001000	Abandoned:	1/01/1989
			Construction:	Unknown	Out of Service:	Not Reported

Map ID#: 5B
Distance (mi): 0.23721
Direction: SE
EcoSearch Site ID: EJ402004111
Name: NORTHWEST YARD (N SIDE BLDG)
Address: 8414 W FLORIST AVE
City, State, Zip: MILWAUKEE, WI 53225

Tank Information:

402004111	Status:	Closed--Tank Removed	Contents:	Unleaded	Installed:	1/01/1974
	User Type:	Government	Capacity:	004000	Abandoned:	7/01/1993
			Construction:	Bare Steel	Out of Service:	Not Reported
402004112	Status:	Closed--Tank Removed	Contents:	Kerosene	Installed:	1/01/1999
	User Type:	Government	Capacity:	000750	Abandoned:	3/14/1992
			Construction:	Fiberglass	Out of Service:	Not Reported

Unmappable Sites

A limitation of many records of governmental databases is incomplete or incorrect address information. Without proper addresses, it is more difficult to locate and map these sites.

Instead of leaving these potentially important sites out of the EcoSearch report, we implement a painstaking manual geocoding strategy aimed at plotting these unmappable sites by looking at zip codes, city names, and county names identified with the radius around your study site. The zip codes, cities, and counties searched are identified on the EcoSearch Statistical Overview page.

Our sophisticated mapping software, enhanced TIGER street maps, and address correction database processing methods find and plot most environmental sites. We then perform manual geocoding, plotting those sites the computer fails to find using a variety of resources. These include using our in-house collection of paper maps, directories, cross-referencing database information, and calling post offices, local government, or the sites themselves to accurately locate environmental records. We also correct obvious TIGER street map errors and omissions.

This effort at manual geocoding results in a short or non-existant orphan/unmappable list and increases accuracy and reliability of the data in our reports. We have elected not to computerize this part of our report due to the importance of presenting all data as completely and accurately as humanly possible. When this function is computerized it is impossible to produce a report as accurate as one where manual geocoding has taken place.

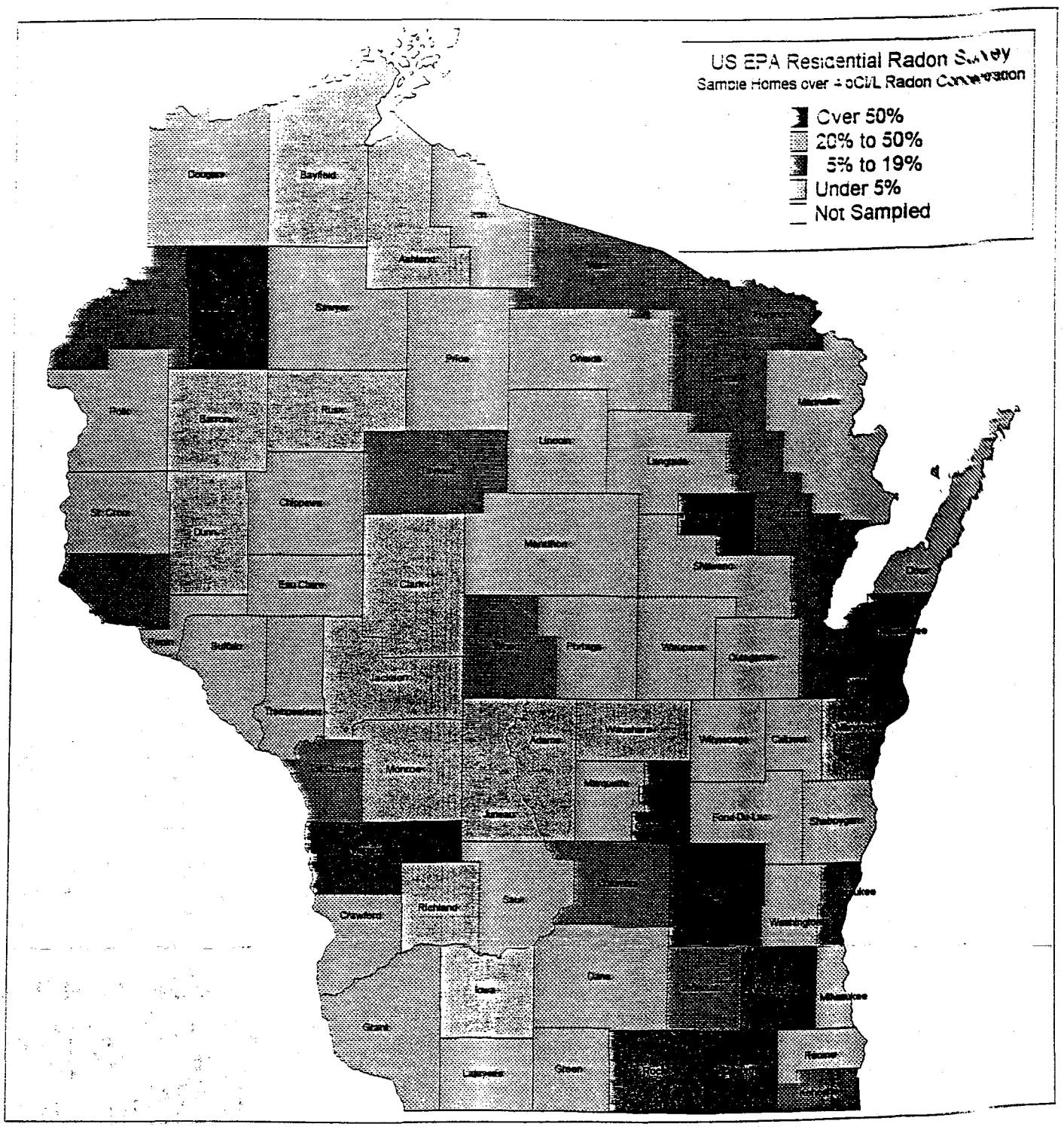
The limited number of sites which could not be reasonably found through our geocoding strategy are presented in this section for further review to assess their impact on your study site.

To serve our clients, we offer the free service of researching any unmappable site that you feel you would like more information about. To do this, give us a call with the database and agency ID number (found in the first and second columns of the unmappable section). We will then phone, send, or fax you the detailed data for that site.

Unmappable Sites

Database	Agency ID#	Site Name and Address	County
UST Wisconsin Underground Storage Tank	EJ402003800	S A S INC PO BOX 1174 MILWAUKEE, WI 53201-1174	MILWAUKEE

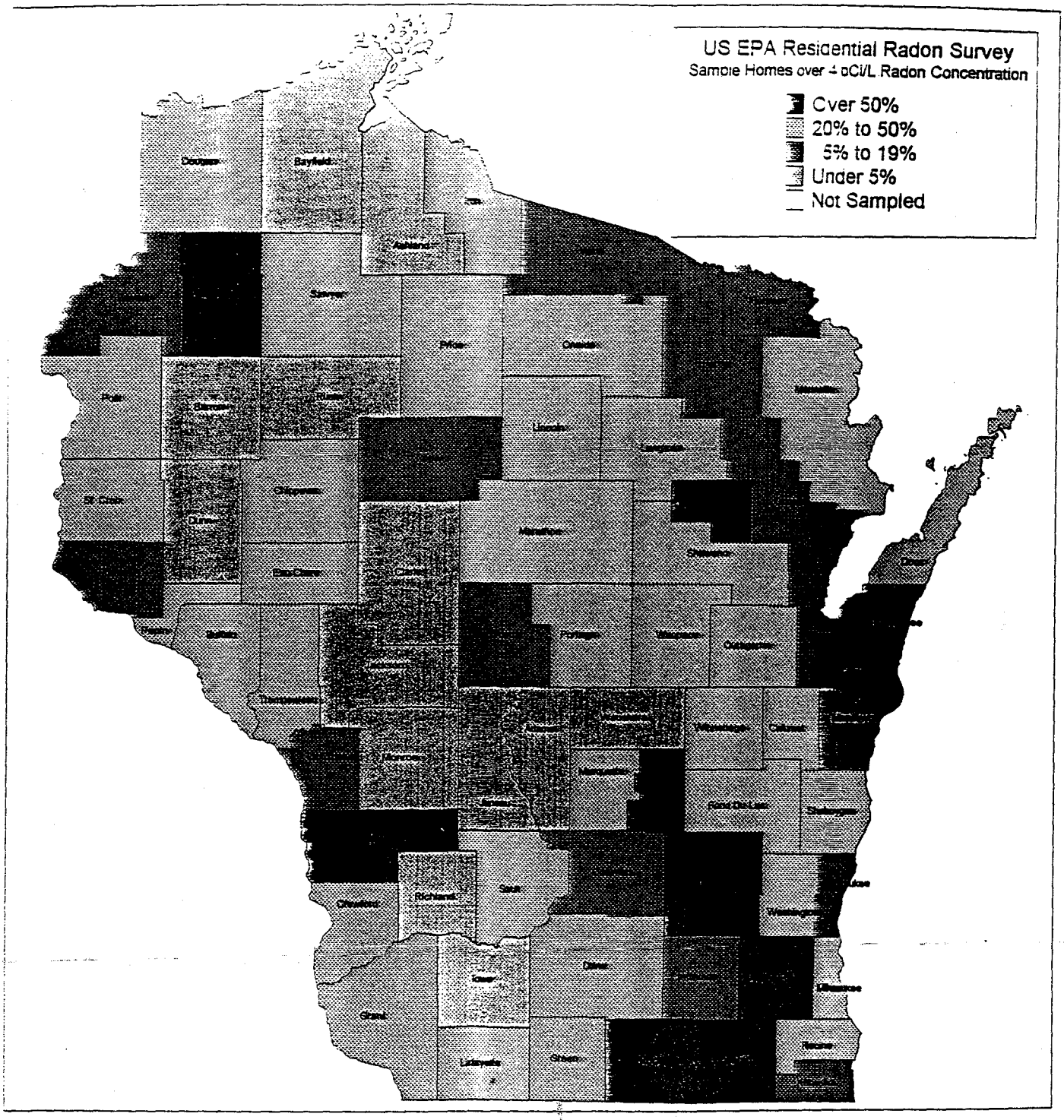
EcoSearch Radon Risk Map for Wisconsin



SOURCE: EPA Map for Radon Zones (Wisconsin), September 1993. The data is based on the State/EPA Residential Radon Survey which was conducted in Wisconsin during the winters of 1986-87. This map shows the percentage of homes in each county registering over 4 pCi/L (picocuries per liter) radon concentration. For additional information on this survey, consult the next page.

Note: The information provided on this map is subject to the general disclaimer on page 2. This map is NOT intended to determine if a property in a given county should be tested for radon. Properties with elevated levels of radon have been found in all counties. If or when radon is a concern, all properties should be tested regardless of the county designation.

EcoSearch Radon Risk Map for Wisconsin



SOURCE: EPA Map for Radon Zones (Wisconsin), September 1993. The data is based on the State/EPA Residential Radon Survey which was conducted in Wisconsin during the winters of 1986-87. This map shows the percentage of homes in each county registering over 4 pCi/L (picocuries per liter) radon concentration. For additional information on this survey, consult the next page.

Note: The information provided on this map is subject to the general disclaimer on page 2. This map is NOT intended to determine if a property in a given county should be tested for radon. Properties with elevated levels of radon have been found in all counties. If or when radon is a concern, all properties should be tested regardless of the county designation.

EPA Residential Radon Survey for Wisconsin

County	Sample Size	Homes over 4pCi/L Number	Homes over 4pCi/L Percentage	Homes over 20pCi/L Number	Homes over 20pCi/L Percentage
	0	0	0.00%	0	0.00%
Adams	2	0	0.00%	0	0.00%
Ashland	8	0	0.00%	0	0.00%
Barron	14	0	0.00%	0	0.00%
Bayfield	8	0	0.00%	0	0.00%
Brown	28	3	11.00%	0	0.00%
Buffalo	8	2	25.00%	0	0.00%
Burnett	9	1	11.00%	0	0.00%
Calumet	3	1	33.00%	0	0.00%
Chippewa	18	6	33.00%	0	0.00%
Clark	4	0	0.00%	0	0.00%
Columbia	8	1	13.00%	0	0.00%
Crawford	5	2	40.00%	0	0.00%
Dane	87	22	25.00%	0	0.00%
Dodge	12	6	50.00%	0	0.00%
Door	8	3	38.00%	1	13.00%
Douglas	9	2	22.00%	0	0.00%
Dunn	13	0	0.00%	0	0.00%
Eau Claire	20	4	20.00%	0	0.00%
Florence	13	2	15.00%	0	0.00%
Fond Du Lac	22	9	41.00%	0	0.00%
Forest	6	1	17.00%	0	0.00%
Grant	10	4	40.00%	1	10.00%
Green	6	2	33.00%	0	0.00%
Green Lake	2	1	50.00%	1	50.00%
Iowa	1	0	0.00%	0	0.00%
Iron	5	2	40.00%	0	0.00%
Jackson	2	0	0.00%	0	0.00%
Jefferson	15	1	7.00%	0	0.00%
Juneau	2	0	0.00%	0	0.00%
Kenosha	21	3	14.00%	0	0.00%
Kewaunee	5	0	0.00%	0	0.00%
La Crosse	26	2	8.00%	0	0.00%
Lafayette	4	1	25.00%	0	0.00%
Langlade	19	5	26.00%	0	0.00%
Lincoln	4	1	25.00%	0	0.00%
Manitowoc	18	0	0.00%	0	0.00%
Marathon	71	27	38.00%	2	3.00%
Marinette	13	3	23.00%	0	0.00%
Marquette	4	1	25.00%	0	0.00%
Menominee	2	1	50.00%	0	0.00%
Milwaukee	124	33	27.00%	0	0.00%
Monroe	7	0	0.00%	0	0.00%
Oconto	30	4	13.00%	0	0.00%
Oneida	8	2	25.00%	0	0.00%
Outagamie	23	5	22.00%	0	0.00%
Ozaukee	12	2	17.00%	0	0.00%
Pepin	4	1	25.00%	0	0.00%
Pierce	6	1	17.00%	0	0.00%
Polk	9	2	22.00%	0	0.00%
Portage	30	9	30.00%	0	0.00%
Price	10	3	30.00%	1	10.00%
Racine	31	8	26.00%	0	0.00%
Richland	3	0	0.00%	0	0.00%
Rock	18	10	56.00%	0	0.00%
Rusk	4	0	0.00%	0	0.00%
Sauk	7	2	29.00%	0	0.00%
Sawyer	34	8	24.00%	0	0.00%
Shawano	30	10	33.00%	1	3.00%
Sheboygan	20	4	20.00%	0	0.00%
St Croix	10	3	30.00%	0	0.00%
Taylor	11	1	9.00%	0	0.00%
Trempealeau	8	3	38.00%	0	0.00%
Vernon	2	1	50.00%	0	0.00%
Vilas	45	6	13.00%	1	2.00%
Walworth	8	4	50.00%	1	13.00%
Washburn	1	1	100.00%	0	0.00%
Washington	16	4	25.00%	1	6.00%
Waukesha	58	37	64.00%	1	2.00%
Waupaca	39	18	46.00%	1	3.00%
Waushara	7	0	0.00%	0	0.00%
Winnebago	25	5	20.00%	0	0.00%
Wood	16	1	6.00%	0	0.00%

SOURCE: EPA Map of Radon Zones: Wisconsin (September 1993)

This EPA/State survey was conducted in Wisconsin during the winters of 1986-88. 1,191 homes were tested with short-term (2-7 day) charcoal canisters placed in the lowest livable area of the home. These tests determine the radon concentration, measured in pCi/L (picocuries per liter). The average radon concentration measurement in the U.S. is between 1 and 2 pCi/L. The EPA has established the guideline of 4 pCi/L as an "elevated" indoor radon level.

NOTE: The sample size in each county may not be sufficient to show statistical significance. This information is NOT intended to determine if a property in a given county should be tested for radon. If or when radon is a concern, all properties should be tested regardless of the county statistics.

EPA Residential Radon Survey for Wisconsin

County	Sample Size	Homes over 4pCi/L Number	Homes over 4pCi/L Percentage	Homes over 20pCi/L Number	Homes over 20pCi/L Percentage
	0	0	0.00%	0	0.00%
Adams	2	0	0.00%	0	0.00%
Ashland	8	0	0.00%	0	0.00%
Barron	14	0	0.00%	0	0.00%
Bayfield	8	0	0.00%	0	0.00%
Brown	28	3	11.00%	0	0.00%
Buffalo	8	2	25.00%	0	0.00%
Burnett	9	1	11.00%	0	0.00%
Calumet	3	1	33.00%	0	0.00%
Chippewa	18	6	33.00%	0	0.00%
Clark	4	0	0.00%	0	0.00%
Columbia	8	1	13.00%	0	0.00%
Crawford	5	2	40.00%	0	0.00%
Dane	87	22	25.00%	0	0.00%
Dodge	12	6	50.00%	0	0.00%
Door	8	3	38.00%	1	13.00%
Douglas	9	2	22.00%	0	0.00%
Dunn	13	0	0.00%	0	0.00%
Eau Claire	20	4	20.00%	0	0.00%
Florence	13	2	15.00%	0	0.00%
Fond Du Lac	22	9	41.00%	0	0.00%
Forest	6	1	17.00%	0	0.00%
Grant	10	4	40.00%	1	10.00%
Green	6	2	33.00%	0	0.00%
Green Lake	2	1	50.00%	1	50.00%
Iowa	1	0	0.00%	0	0.00%
Iron	5	2	40.00%	0	0.00%
Jackson	2	0	0.00%	0	0.00%
Jefferson	15	1	7.00%	0	0.00%
Juneau	2	0	0.00%	0	0.00%
Kenosha	21	3	14.00%	0	0.00%
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Pierce	6	1	17.00%	0	0.00%
Polk	9	2	22.00%	0	0.00%
Portage	30	9	30.00%	0	0.00%
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Racine	31	8	26.00%	0	0.00%
Richland	3	0	0.00%	0	0.00%
Rock	18	10	56.00%	0	0.00%
Rusk	4	0	0.00%	0	0.00%
Sauk	7	2	29.00%	0	0.00%
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NOTE: The sample size in each county may not be sufficient to show statistical significance. This information is NOT intended to determine if a property in a given county should be tested for radon. If or when radon is a concern, all properties should be tested regardless of the county statistics.

Environmental Glossary

Acid
A large class of substances having a pH less than seven. An acid waste is considered hazardous when the pH is 2.0 or less.

Acute Effect
An adverse effect on a human or animal body, with severe symptoms developing rapidly and coming quickly to a crisis.

Acute Exposure
A dose that is delivered to the body in a single event or in a short period of time.

Aerobic
Occurring in the presence of free oxygen.

Alkaline
A substance with a pH between 7 and 14. An alkaline waste is considered hazardous when its pH is 12.5 or greater.

Ambient
Existing conditins of air, water, and other media at a particular time.

Anaerobic
Occurring in the absence of oxygen.

Assessment
An analysis or examination.

Background Environmental Sample
Samples that are considered to contain no contaminants or known concentrations of contaminants.

Base
A substance which forms a salt when reacted with an acid. Bases have a pH of greater than seven.

Buffer Zone
An area of land which surrounds a hazardous waste facility and on which certain land uses and activities are restricted to protect the public health and safety and the environment from existing or potential hazards caused by the migration of hazardous waste (CH&SC Sec. 25110.3).

Carcinogen
A substance or agent capable of causing or producing cancer in mammals.

Caustics
A large class of substances which form solutions having a high pH.

Chronic Effect
An adverse effect on a human or animal body, with symptoms which develop slowly over a long period of time or which reoccur frequently.

Chronic Exposure
Low doses repeatedly received by the body over a long period of time.

Combustible
A term used by the NFPA, DOT, and others to classify certain liquids that will burn, on the basis of flash points. Both the NFPA and DOT generally define "combustible liquids" as having a flash point of 100° F or higher.

Concentration
The relative amount of a substance when combined or mixed with other substances.

Contingency Plan
A document setting out an organized, planned, and coordinated course of action to be followed in case of a fire or explosion or release of a hazardous waste from a TSD or a generator's facility that could threaten human health or the environment (RCRA).

Corrosive
As defined by DOT, a corrosive material is a liquid or solid that causes visible destruction or irreversible alterations in human skin tissue at the site of contact or in the case of leakage from its packaging a liquid that has a severe corrosion rate on steel. A solid or liquid which exhibits these characteristics can be regulated as hazardous waste.

Decomposition
Breakdown of material or substance (by heat, chemical reaction, electrolysis, decay, or other processes) into elements or simpler compounds.

Decontamination
The process of removing contaminants from individuals and equipment.

Deep Well Injection
Disposal of wastes by injecting them into a geological formation deep in the ground, sometimes after pretreatment to avoid solidification.

EPA ID Number
This unique number assigned by EPA to each generator, transporter, or TSD.

Effluent
Waste material, either treated or untreated, discharged into the environment.

Environmental Assessment
The measurement or prediction of the transport, dispersion, and final location of a hazardous substance when released into the environment.

Environmental Emergencies
Incidents involving the release (or potential release) of hazardous materials into the environment which require immediate remedial action.

Environmental Hazard
A condition capable of posing risk of exposure to air, water, soil, plants, or wildlife.

Exception Report
A report that generators who transport waste off-site must submit if they do not receive a properly completed copy of their manifest within 45 days of the date on which the initial transporter accepted the waste.

Generator
The person or facility who, by nature or ownership, management or control, is responsible for causing or allowing to be caused, the creation of hazardous waste.

Glovebag
A device used to remove a section of pipe insulation without isolating the entire space or room.

Groundwater Hydrology
The study of the movement of water below the earth's surface.

Hazard
A circumstance or condition that can cause harm. Hazards are often categorized into four groups: biological, chemical, physical, and radiation.

Hazard Classes
A series of nine descriptive terms that have been established by the UN Committee of Experts to categorize the hazardous nature of chemical, physical, and biological materials. These categories are: flammable liquids, explosives, gases, oxidizers, radioactive materials, corrosives, flammable solids, poisonous and infectious substances, and dangerous substances.

Hazardous Waste
Any material that is subject to the hazardous waste manifest requirements of the EPA specified in the CFR, Title 40, Part 262 or would be subject to these requirements in the absence of an interim authorization to a State under CFR, Title 40, Part 123, Subpart F.

density and generally toxic, e.g., lead, silver, mercury, and arsenic.

Immediate Removal

Actions undertaken to prevent or mitigate immediate and significant risk of harm to human life or health or the environment. As set forth in the National Contingency Plan, these actions shall be terminated after $1 million has been obligated or six months have elapsed from the date of initial response.

Incident

The release or potential release of a hazardous substance into the environment.

Inert

Exhibiting no chemical activity; totally unreactive.

Innocent Land Owner's Defense

The defense of a purchaser of real property that he or she exercised due diligence in having hazards assessed prior to purchase.

Interim Status

Allows owners and operators of TSDs that were in existence, or for which construction had commenced, prior to November 19, 1980 to continue to operate without a permit after this date pending final issuance from RCRA.

Joint and Several Liability

Under federal law each party that contributed to damages may be held liable for all damages, but each has the right to compel the others to contribute and indemnify.

Liability

Being subject to legal action for one's behavior.

MSDS Material Safety Data Sheet

Required by OSHA of owners to alert employees to hazards, their effect, and protective action.

Manifest

Form which indicates generator, quantity, and type of waste for each shipment of hazardous wastes disposed in off-site facilities.

National Contingency Plan

Policies and procedures that the Federal Government follows in implementing responses to incidents involving hazardous substances.

P Wastes

A federal waste list comprised of substances categorized as acutely hazardous.

The first part of a two part application that must be submitted by a TSD to receive a permit. It contains general facility information.

Part B

The second part of a two part application that must be submitted by a TSD to receive a permit. It contains highly technical and detailed information.

Planned Removal

The removal of released hazardous substances from the environment within a non-immediate, long term time period. Under CERCLA: Actions intended to minimize increases in exposure such that time and cost commitments are limited to six months and/or $1 million.

Poison, Class A

A DOT term for extremely dangerous poisons, that is, poisonous gases or liquids of such nature that a very small amount of the gas, or vapor of the liquid, mixed with air is dangerous to life. Some examples: phosgene, cyanogen, and hydrocyanic acid.

Poison, Class B

A DOT term for liquid, solid, paste, or semisolid substances, other than Class A poisons, which are known to be toxic to man as to afford a hazard to health during transportation.

Pollutant

A substance or mixture which after release into the environment and upon exposure to any organisms will or may reasonably be anticipated to cause adverse effects in such organisms and their offspring.

Priority Pollutants

A list of chemicals selected from the list of toxic pollutants by the EPA as priority toxic pollutants for regulation under the Clean Water Act.

Remedial Actions

Responses to releases of hazardous substances on the NPL that are consistent with a permanent remedy which would prevent or mitigate the migration of materials into the environment.

Risk

The probability that an unwanted event will occur.

Those personnel required to assist or relieve first responders at a hazardous material incident due to their specialized knowledge, equipment, or experience. These include State environmental protection or health officials, commercial response, cleanup companies, and appropriate industry representatives.

Strict Liability

Holds a party responsible for damages irrespective of the amount of care taken in handling a hazardous substance.

Subtitle C

The part of RCRA which pertains to the management of hazardous waste.

Subtitle I

The part of RCRA which pertains to the storage of petroleum products and hazardous substances, other than wastes, in USTs.

Superfund

See CERCLA.

Synergistic

The action of two materials together which is greater in effect than the sum of the individuals actions.

TIGER Files

The US Census Bureau's TIGER files provide a nationwide computerized map with address range information.

Tort

A legal wrong, sometimes referred to as negligence.

Toxicity

The ability of a substance to produce injury by non-mechanical means once it reaches a susceptible site in or on the body.

U Wastes

A federal list of hazardous wastes which consists of substances deemed to be hazardous for hazards other than acute hazards.

– Adapted from Lincoln Graduate Center, 1993. Real Estate Environmental Screening. San Antonio, Texas.

Acronyms and Abbreviations

-AIRS	Aerometric Information Retrieval System
-AST	Aboveground Storage Tank
-ASTM	American Society for Testing and Materials
-BLM	Bureau of Land Management
-BNA	Bureau of National Affairs
-CAA	Clean Air Act
-CDC	Centers for Disease Control
-CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
-CERCLIS	CERCLA Information System
-CICIS	Chemicals in Commerce Information System
-COE	U.S. Army Corps of Engineers
-CWA	Clean Water Act
-DDT	Dicholoro-diphenyl-dichloroethane
-DOC	Department of Commerce
-DOCKET	Enforcement Docket System--Office of Enforcement and Compliance Monitoring
-DOE	Department of Energy
-DOT	Department of Transportation
-EPA	Environmental Protection Agency
-ERCS	Emergency Response Cleanup Services
-ERNS	Emergency Response Notification System
-ESA	Environmental Site Assessment
-FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
-FINDS	Facility Index System
-FOIA	Freedom of Information Act
-FWPCA	Federal Water Pollution Control Act
-HHS	Department of Health and Human Services
-HSWA	Hazardous and Solid Waste Amendments of 1984
-HUD	Department of Housing and Urban Development
-LUST	Leaking Underground Storage Tank
-MSDS	Material Safety Data Sheet
-NEPA	National Environment Policy Act
-NESHAP	National Emission Standards for Hazardous Air Pollutants
-NFRAP	No Further Remedial Action Planned (Delisted CERCLA Site)
-NOI	Notice of Intent
-NOV	Notice of Violation
-NPDES	National Pollution Discharge Elimination System
-NPL	National Priorities List
-NRC	Nuclear Regulatory Commission
-NRIS	Nuclear Regulatory Information System
-OSHA	Occupational Safety and Health Administration

Acronyms and Abbreviations

-PADS	PCB Activity Database System
-PCB	Polychlorinated Biphenyls
-POTW	Publicly-Owned Treatment Works
-PPM	Parts Per Million
-PRP	Potentially Responsible Parties
-RAATS	RCRA Administrative Action Tracking System
-RCRA	Resource Conservation and Recovery Act of 1976
-RCRIS	Resource Conservation and Recovery Information System
-RFA	RCRA Facility Assessment
-RFI	RCRA Facility Investigation
-RI	Remedial Investigation (CERCLA)
-SARA	Superfund Amendments and Reauthorization Act of 1986
-SCS	Soil Conservation Service
-SDWA	Safe Drinking Water Act
-SETS	Superfund Enforcement Tracking System
-SSTS	Section Seven Tracking System
-SWF/LF	Solid Waste Facilities / Landfills
-TIGER	Topologically Integrated Geographic Encoding and Referencing System
-TRI	Toxic Release Inventory
-TSCA	Toxic Substances Control Act
-TSD	Treatment, Storage, or Disposal Facility
-USDA	U.S. Department of Agriculture
-USGS	U.S. Geological Survey
-UST	Underground Storage Tank
-WWTP	Wastewater Treatment Plant

APPENDIX C

MATERIALS MANAGEMENT & TRAINING LTD.

ASSESSMENT DOCUMENTATION REPORT

Taylor
INDUSTRIAL
VAC INC.

October 8, 1997

Mr James Delwiche
State Of Wisconsin DNR
4041 N. Richards St.
Milwaukee, WI 53212 - 0436

Dear Mr. Delwiche,

Based on our conversation of last week regarding Key Products, I have enclosed the assessment report on the geoprobe work we did. If you look at the area of concern it is quite small and based the data and conclusion there would be good reason for a no further action. We did what the DNR recommended and that was to determine if groundwater was at 10-15 feet below grade. No ground water was detected except perched water at 5 feet and retesting of some of the soils indicated levels below what was indicated previously.

I spoke with the attorney who is handling the sale of the property and they would expect to have closure by the end of the month. We would like a no further action letter from the DNR as soon as possible so they can close the sale.

Once again this site is not that complicated, there are reduced levels of contaminants, there are no contaminants below 10 feet, and no groundwater was impacted.

Any questions call me at 447-4700. Thanks again.

Sincerely,

Don Gagas

ASSESSMENT DOCUMENTATION REPORT

KEY PRODUCTS, INC.

8634 W. Lynks

Milwaukee, WI 53225

Milwaukee County

ERP FID# 241437790

MILWAUKEE COUNTY
ERP FID# 241437790

ASSESSMENT DOCUMENTATION REPORT

Prepared for:

Key Products, Inc.
8634 W. Lynks
Milwaukee, Wisconsin 53225
Attn: Richard Meinburg

Prepared by:

Materials Management & Training Ltd.
14705 East View Ct.
Brookfield, WI 53005
Or
2711 W. Townsend Street
Milwaukee, WI 53216
(414) 447-4700

September 19, 1997

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EXECUTIVE SUMMARY

January 26, 1996 Key Products reported that a accidental release had occurred at their facility located on 8634 W. Lynks, Milwaukee, WI 53225 . No residual product was present, visible contamination or ground water was observed . Initial laboratory analysis of soil samples taken prior excavation revealed VOC contaminate levels , 29 to 48,000 mg/kg respectively. After excavation, laboratory analysis of soil samples showed VOC levels on the base and East end of the excavation at 1,500 -3,000 mg/kg. The Department of Natural Resources recommended that Key Products conduct an assessment and determine if groundwater is at 10-16 feet bgs and report on the degree and extent of contamination based on the information that the DNR provided to Key Products in their letter dated January 3, 1997. On July 23, 1997 MM&T Ltd. contracted with ESP Enterprises, Inc. of West Bend, WI to conduct geoprobe activities at the Key Products Site. The assessment was to determine if contamination in the excavation area originally reported in the Closure Documentation Report was due to soil disturbance during excavation and if groundwater is impacted. Geoprobe samples were set up adjacent to the former SS-1 and SS-4 location and at the property boundary down gradient of groundwater flow. Samples were taken to a depth of 15- 20 feet.

This assessment has been performed in accordance with state and local regulations. The assessment report has been prepared in accordance with federal and state requirements for release reporting.

INTRODUCTION

January 26, 1996 Key Products located at 8634 W. Lynks, Milwaukee, WI 53225 reported that a release had occurred from the handling of waste paint related materials. On July 23, 1997 geoprobe sampling was conducted at the Key Products Site to determine extent of contamination.

Materials Management & Training Ltd., 14705 East View Ct. Brookfield, WI 53005 was retained by Key Products to observe, document and prepare an assessment documentation report upon completion of field activities to determine the extent of contamination.

SITE BACKGROUND

Key Products Leased and previously operated the facility at the 8634 W. Lynks. Past practices for disposal of waste paint cans involved disposing of them into a dumpster where they leaked onto the surrounding soils. On May 26, 1997 Key Products, Inc., removed 226 tons of soil from the area where the dumpster was located. Soil analysis after excavation showed 1,500 mg/kg at the base and 3,000 mg/kg at the east wall of the excavation. All other areas of the excavation was had no detects.

Based on the remaining contamination in the soil Key Products determined the risk based levels and found the results to be below DNR standards. Key Products, Inc., requested no further action. On January 3, 1997 the DNR requested further investigation based on information from the Hampton Plumbing site which indicated groundwater at 12 feet bgs.

No groundwater was detected in the Key Products excavation during the time it remained open (about 3 months) other than rain water.

Don Gagas of Materials Management & Training Ltd., 14705 East View Ct., Brookfield, WI 53005, site assessor certification #01275, was retained to observe and document assessment activities and report upon completion of field operations. The general contractor providing geoprobe services was ESP Enterprises, Inc., 1784 Barton Ave., Suite 22 West Bend, WI 53095.

PURPOSE AND SCOPE

The purpose of this report is to document the assessment activities at Key Products, 8634 W.Lynks, Milwaukee, Wisconsin 53225. This report is being prepared for the owner's records and in fulfillment of the requirements of State of Wisconsin release reporting and assessment activities.

The information in this report is based on the following:

- *Periodic site visits for the purpose of observing and documenting assessment & geoprobe activities .*
- *Observation and recording of the type, characteristics, and quantities of soil materials used.*
- *Photographic recording of assessment and geoprobe activities.*
- *Documentation of subcontractors used during the geoprobe activities.*
- *Written summary of the observed assessment operations.*

Key Products arranged with MM&T Ltd. to provide supervision, coordination, and scheduling during on-site assessment activities. The on-site contractor was responsible for geoprobe, health and safety considerations.

The scope of this report is limited to the on-site assessment activities occurring during geoprobe activities at the former location of waste lugger storage owned and operated by Key Products, 8634 W. Lynks, Milwaukee, Wisconsin 53225.

Soil samples were collected in accordance with the workplan and DNR Checklist.

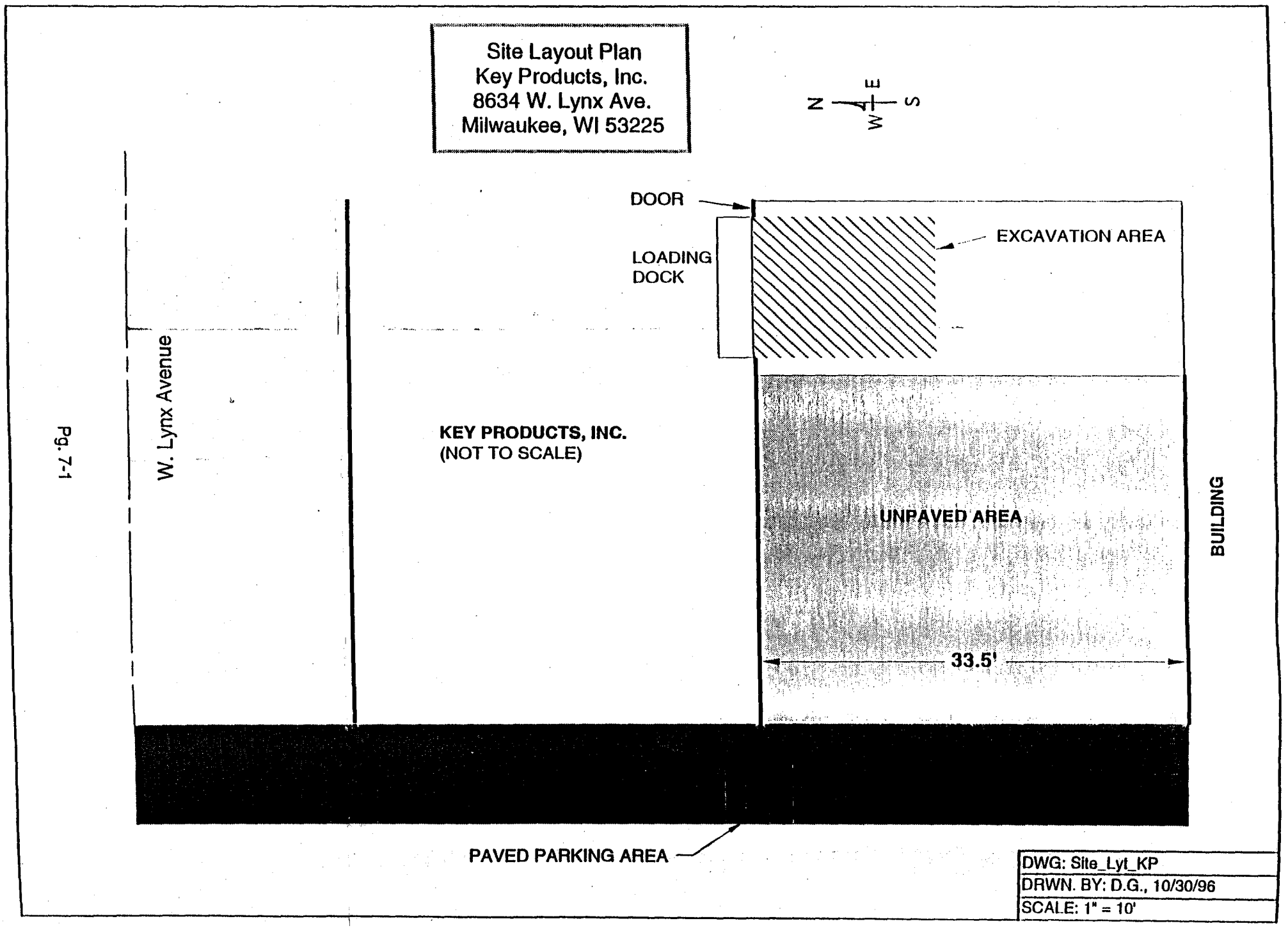
CONFIRMATION SAMPLING

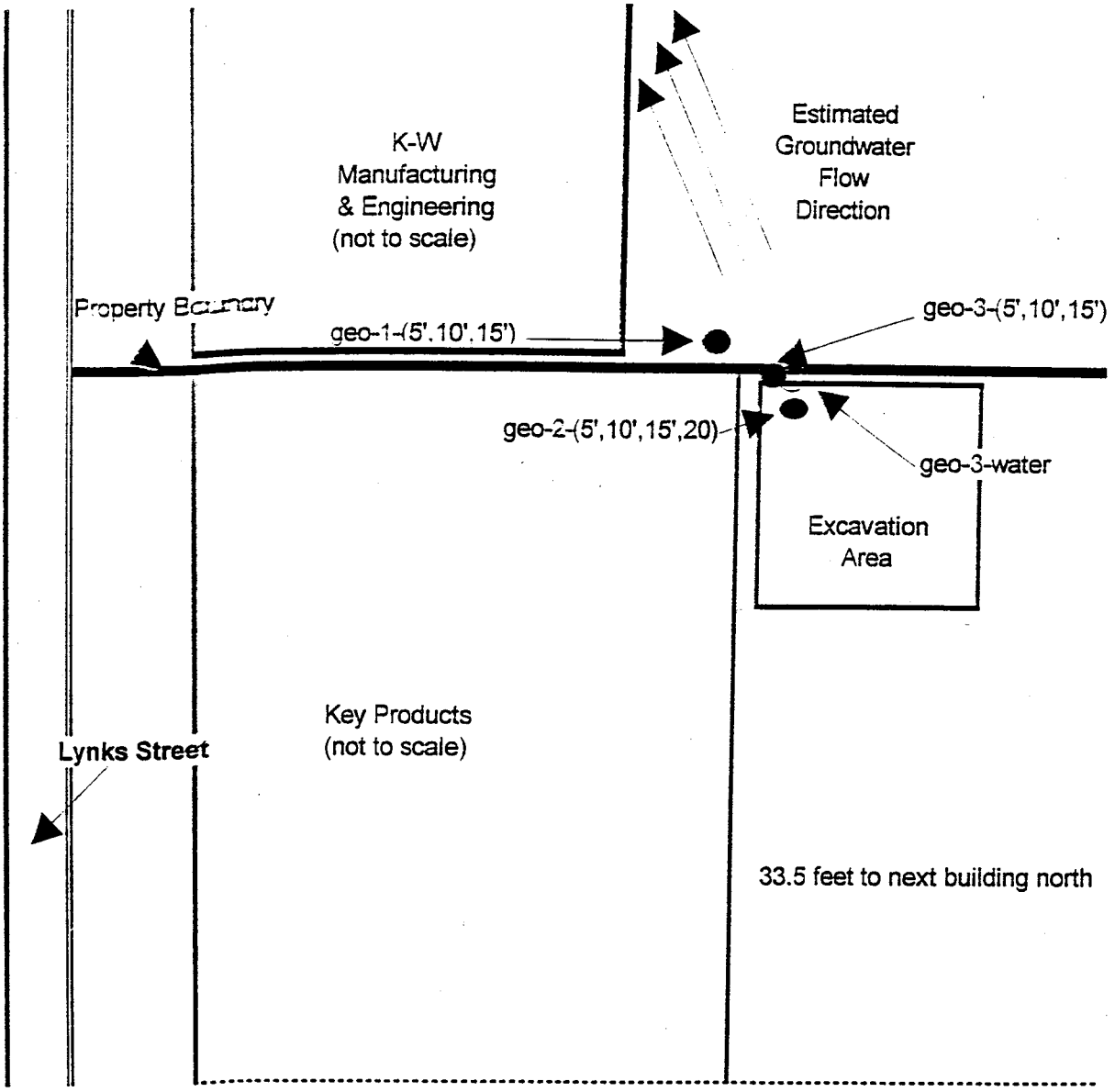
Soil sampling commenced on July 23, 1997 during which time soil samples were collected from geoprobe activities and analyzed for VOC's. The analysis indicated VOC levels of no-detect (< 5 mg/kg) to 83 mg/kg at locations, below the WDNR criteria limit of 100 (ref. Confirmation Samples - Soil, GP-1 thru GP-3). GP-1 analysis results are not included in the report eventhough the results are similar to GP-2 & GP-3.

Ground water was not encountered during geoprobe activities nor were signs of surface water staining evident. Subsurface water was encountered at approximately 5 feet and indications of disturbed soil (sand,clay,stone) would be concluded by MM& T Ltd. and ESP that this is perched water. A sample of the perched water was taken for analysis (ref GP-3-water). All other soil samples taken during geoprobe activities were moist to dry below the 4-6 foot depth. No other groundwater was encountered.

SOIL GEOLOGY

The soil survey of Milwaukee and Waukesha counties from the U.S. Soil Conservation Service indicates the soils in the region of the site are of the Ozaukee-Morley-Mequon association, consisting of well drained to somewhat poorly drained soils with a subsoil of silty clay loam and silty clay. The soils are formed in thin loess and silty clay loam glacial till, and on moraines.

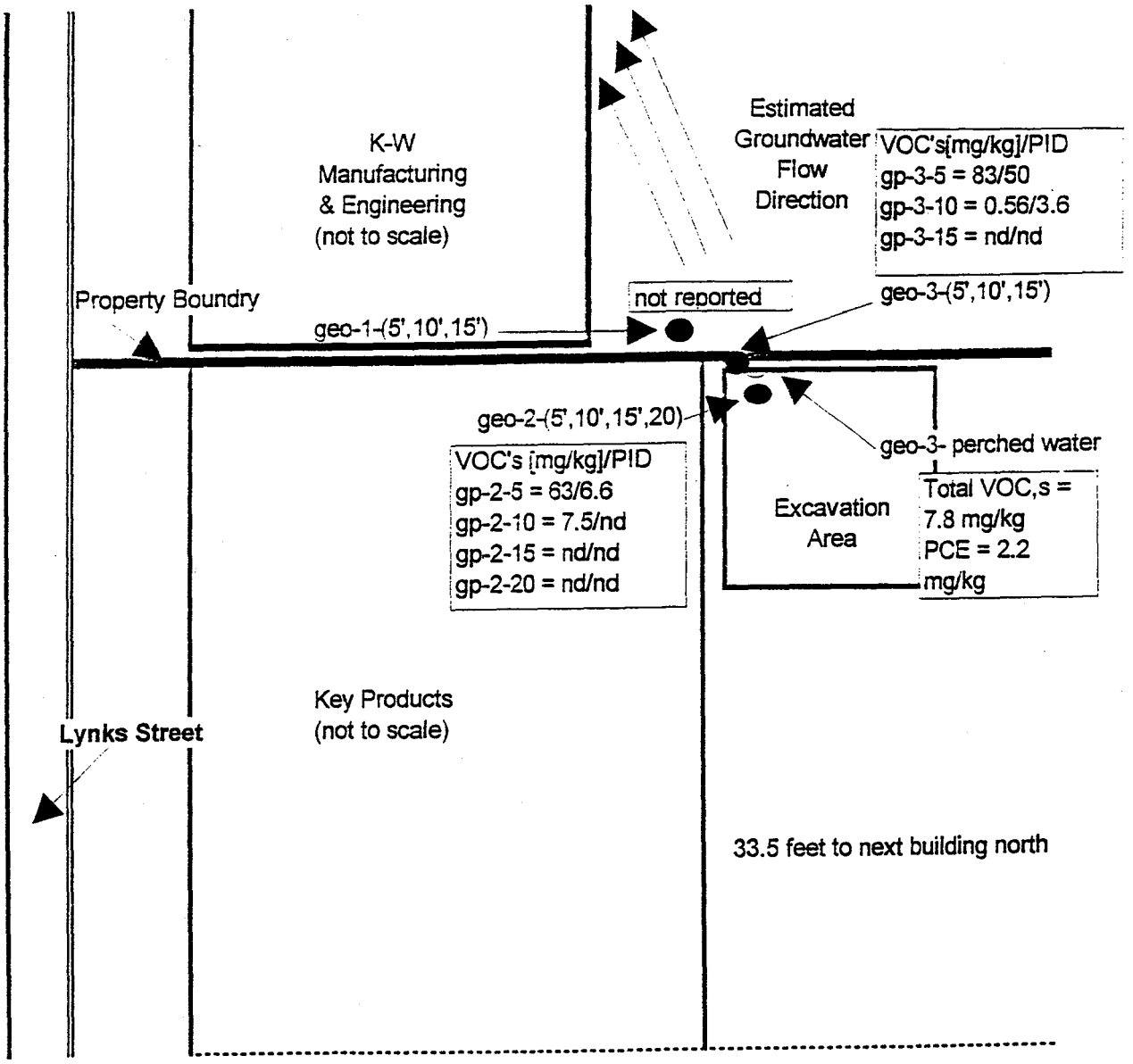

Site Layout Plan
Key Products, Inc.
8634 W. Lynx Ave.
Milwaukee, WI 53225
N
E
S
W
DOOR
LOADING DOCK
EXCAVATION AREA
W. Lynx Avenue
KEY PRODUCTS, INC.
(NOT TO SCALE)
UNPAVED AREA
33.5'
BUILDING
PAVED PARKING AREA
DWG: Site_Lyt_KP
DRWN. BY: D.G., 10/30/96
SCALE: 1" = 10'



Geoprobe Sample locations
Key Products
8634 W. Lynks
Milwaukee, WI 53225

DWG: soil_key_geoprobe
N
1" =10'
Print By:DFG
9/19/97

SOIL SAMPLING LOCATIONS



VOC Analysis Results & PID Readings
Key Products
8634 W. Lynks
Milwaukee, WI 53225

DWG: soil_key_geoprobe
N
1" =10'
Print By:DFG
9/19/97

CONFIRMATION SAMPLES - SOIL

NATIONAL ENVIRONMENTAL TESTING, INC.

Watertown Division
602 Commerce Drive
P.O. Box 288
Watertown, WI 53094
Tel: (414) 261-1660
Fax: (414) 261-8120
WDNR No. 128053530

ANALYTICAL AND QUALITY CONTROL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

08/04/1997

Job No: 97.06981

Page 1

Enclosed are the Analytical and Quality Control reports for the following samples submitted for analysis:

Sample Number	Sample Description	Date Taken	Date Received
258658	GP-3-Water	07/23/1997	07/24/1997

Soil results are reported on a dry weight basis. The above sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time
B = Blank is contaminated
C = Standard outside of control limits
D = Diluted for analysis
F = Sample filtered in lab
G = Received past hold time
H = Late eluting hydrocarbons present
I = Improperly handled sample
J = Estimated concentration
L = Common lab solvent and contaminant
M = Matrix interference
P = Improperly preserved sample
Q = Result confirmed via re-analysis
S = Sediment present
T = Does not match typical pattern
W = BOD re-set due to missed dilution
X = Unidentified compound(s) present
Z = Internal standard outside limits

Brian D. DeJong, Organic Operations Manager
Certification No. 128053530

NATIONAL ENVIRONMENTAL TESTING, INC.

Watertown Division
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ANALYTICAL AND QUALITY CONTROL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997

Job No: 97.06980

Page 1

Enclosed are the Analytical and Quality Control reports for the following samples submitted for analysis:

Sample Number	Sample Description	Date Taken	Date Received
258647	GP-2-5	07/23/1997	07/24/1997
258648	GP-2-10	07/23/1997	07/24/1997
258649	GP-2-15	07/23/1997	07/24/1997
258650	GP-2-20	07/23/1997	07/24/1997
258654	GP-3-5	07/23/1997	07/24/1997
258655	GP3-10	07/23/1997	07/24/1997
258656	Trip Blk	07/23/1997	07/24/1997

Soil results are reported on a dry weight basis. The above sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time
B = Blank is contaminated
C = Standard outside of control limits
D = Diluted for analysis
F = Sample filtered in lab
G = Received past hold time
H = Late eluting hydrocarbons present
I = Improperly handled sample
J = Estimated concentration
L = Common lab solvent and contaminant
M = Matrix interference
P = Improperly preserved sample
Q = Result confirmed via re-analysis
S = Sediment present
T = Does not match typical pattern
W = BOD re-set due to missed dilution
X = Unidentified compound(s) present
Z = Internal standard outside limits

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Certification No. 128053530

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Watertown Division
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WDNR No. 128053530

ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258647
Account No: 71290
Page 2

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-2-5
Recv'd 3.0 C

Date Taken: 07/23/1997 09:00 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Benzene	<25	ug/kg	25	S-8260	07/25/1997	410
Bromobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Bromochloromethane	<25	ug/kg	25	S-8260	07/25/1997	410
Bromodichloromethane	<25	ug/kg	25	S-8260	07/25/1997	410
Bromoform	<25	ug/kg	25	S-8260	07/25/1997	410
Bromomethane	<100	ug/kg	100	S-8260	07/25/1997	410
n-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
sec-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
tert-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Carbon Tetrachloride	<25	ug/kg	25	S-8260	07/25/1997	410
Chlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Chlorodibromomethane	<25	ug/kg	25	S-8260	07/25/1997	410
Chloroethane	<35	ug/kg	35	S-8260	07/25/1997	410
Chloroform	<25	ug/kg	25	S-8260	07/25/1997	410
Chloromethane	<30	ug/kg	30	S-8260	07/25/1997	410
2-Chlorotoluene	<25	ug/kg	25	S-8260	07/25/1997	410
4-Chlorotoluene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dibromo-3-Chloropropane	<50	ug/kg	50	S-8260	07/25/1997	410
1,2-Dibromoethane (EDB)	<25	ug/kg	25	S-8260	07/25/1997	410
Dibromomethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,4-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Dichlorodifluoromethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloroethane	<13	ug/kg	13	S-8260	07/25/1997	410
1,1-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
cis-1,2-Dichloroethene	280	ug/kg	25	S-8260	07/25/1997	410
trans-1,2-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
2,2-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
cis-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
trans-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
Di-isopropyl ether	<25	ug/kg	25	S-8260	07/25/1997	410
Ethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410

NATIONAL ENVIRONMENTAL TESTING, INC.

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WDNR No. 128053530

ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258647
Account No: 71290
Page 3

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-2-5
Recv'd 3.0 C

Date Taken: 07/23/1997 09:00 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Hexachlorobutadiene	<35	ug/kg	35	S-8260	07/25/1997	410
Isopropylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
p-Isopropyltoluene	<25	ug/kg	25	S-8260	07/25/1997	410
Methylene Chloride	<50	ug/kg	50	S-8260	07/25/1997	410
Methyl-t-butyl ether	<25	ug/kg	25	S-8260	07/25/1997	410
Naphthalene	<25	ug/kg	25	S-8260	07/25/1997	410
n-Propylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Styrene	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,1,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,2,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
Tetrachloroethene	63,000	ug/kg	25	S-8260	07/28/1997	411
Toluene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,1-Trichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,2-Trichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
Trichloroethene	310	ug/kg	25	S-8260	07/25/1997	410
Trichlorofluoromethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trimethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,3,5-Trimethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Vinyl Chloride	<25	ug/kg	25	S-8260	07/25/1997	410
Xylenes, Total	<35	ug/kg	35	S-8260	07/25/1997	410
Surr: Dibromofluoromethane	99.8	%	n/a	S-8260	07/25/1997	410
Surr: Toluene-d8	97.2	%	n/a	S-8260	07/25/1997	410
Surr: Bromofluorobenzene	97.8	%	n/a	S-8260	07/25/1997	410

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WDNR No. 128053530

ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258648
Account No: 71290
Page 4

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-2-10
Recv'd 3.0 C

Date Taken: 07/23/1997 09:05 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Benzene	<25	ug/kg	25	S-8260	07/25/1997	410
Bromobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Bromochloromethane	<25	ug/kg	25	S-8260	07/25/1997	410
Bromodichloromethane	<25	ug/kg	25	S-8260	07/25/1997	410
Bromoform	<25	ug/kg	25	S-8260	07/25/1997	410
Bromomethane	<100	ug/kg	100	S-8260	07/25/1997	410
n-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
sec-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
tert-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Carbon Tetrachloride	<25	ug/kg	25	S-8260	07/25/1997	410
Chlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Chlorodibromomethane	<25	ug/kg	25	S-8260	07/25/1997	410
Chloroethane	<35	ug/kg	35	S-8260	07/25/1997	410
Chloroform	<25	ug/kg	25	S-8260	07/25/1997	410
Chloromethane	<30	ug/kg	30	S-8260	07/25/1997	410
2-Chlorotoluene	<25	ug/kg	25	S-8260	07/25/1997	410
4-Chlorotoluene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dibromo-3-Chloropropane	<50	ug/kg	50	S-8260	07/25/1997	410
1,2-Dibromoethane (EDB)	<25	ug/kg	25	S-8260	07/25/1997	410
Dibromomethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,4-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Dichlorodifluoromethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloroethane	<13	ug/kg	13	S-8260	07/25/1997	410
1,1-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
cis-1,2-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
trans-1,2-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
2,2-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
cis-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
trans-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
Di-isopropyl ether	<25	ug/kg	25	S-8260	07/25/1997	410
Ethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410

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WDNR No. 128053530

ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258648
Account No: 71290
Page 5

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-2-10
Recv'd 3.0 C

Date Taken: 07/23/1997 09:05 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Hexachlorobutadiene	<35	ug/kg	35	S-8260	07/25/1997	410
Isopropylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
p-Isopropyltoluene	<25	ug/kg	25	S-8260	07/25/1997	410
Methylene Chloride	<50	ug/kg	50	S-8260	07/25/1997	410
Methyl-t-butyl ether	<25	ug/kg	25	S-8260	07/25/1997	410
Naphthalene	<25	ug/kg	25	S-8260	07/25/1997	410
n-Propylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Styrene	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,1,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,2,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
Tetrachloroethene	7,500	ug/kg	25	S-8260	07/25/1997	410
Toluene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,1-Trichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,2-Trichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
Trichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
Trichlorofluoromethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trimethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,3,5-Trimethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Vinyl Chloride	<25	ug/kg	25	S-8260	07/25/1997	410
Xylenes, Total	<35	ug/kg	35	S-8260	07/25/1997	410
Surr: Dibromofluoromethane	100.4	%	n/a	S-8260	07/25/1997	410
Surr: Toluene-d8	100.8	%	n/a	S-8260	07/25/1997	410
Surr: Bromofluorobenzene	100.8	%	n/a	S-8260	07/25/1997	410

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ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258649
Account No: 71290
Page 6

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-2-15
Recv'd 3.0 C

Date Taken: 07/23/1997 09:10 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Benzene	<30	ug/kg	25	S-8260	07/28/1997	411
Bromobenzene	<30	ug/kg	25	S-8260	07/28/1997	411
Bromochloromethane	<30	ug/kg	25	S-8260	07/28/1997	411
Bromodichloromethane	<30	ug/kg	25	S-8260	07/28/1997	411
Bromoform	<30	ug/kg	25	S-8260	07/28/1997	411
Bromomethane	<120	ug/kg	100	S-8260	07/28/1997	411
n-Butylbenzene	<30	ug/kg	25	S-8260	07/28/1997	411
sec-Butylbenzene	<30	ug/kg	25	S-8260	07/28/1997	411
tert-Butylbenzene	<30	ug/kg	25	S-8260	07/28/1997	411
Carbon Tetrachloride	<30	ug/kg	25	S-8260	07/28/1997	411
Chlorobenzene	<30	ug/kg	25	S-8260	07/28/1997	411
Chlorodibromomethane	<30	ug/kg	25	S-8260	07/28/1997	411
Chloroethane	<42	ug/kg	35	S-8260	07/28/1997	411
Chloroform	<30	ug/kg	25	S-8260	07/28/1997	411
Chloromethane	<36	ug/kg	30	S-8260	07/28/1997	411
2-Chlorotoluene	<30	ug/kg	25	S-8260	07/28/1997	411
4-Chlorotoluene	<30	ug/kg	25	S-8260	07/28/1997	411
1,2-Dibromo-3-Chloropropane	<60	ug/kg	50	S-8260	07/28/1997	411
1,2-Dibromoethane (EDB)	<30	ug/kg	25	S-8260	07/28/1997	411
Dibromomethane	<30	ug/kg	25	S-8260	07/28/1997	411
1,2-Dichlorobenzene	<30	ug/kg	25	S-8260	07/28/1997	411
1,3-Dichlorobenzene	<30	ug/kg	25	S-8260	07/28/1997	411
1,4-Dichlorobenzene	<30	ug/kg	25	S-8260	07/28/1997	411
Dichlorodifluoromethane	<30	ug/kg	25	S-8260	07/28/1997	411
1,1-Dichloroethane	<30	ug/kg	25	S-8260	07/28/1997	411
1,2-Dichloroethane	<16	ug/kg	13	S-8260	07/28/1997	411
1,1-Dichloroethene	<30	ug/kg	25	S-8260	07/28/1997	411
cis-1,2-Dichloroethene	<30	ug/kg	25	S-8260	07/28/1997	411
trans-1,2-Dichloroethene	<30	ug/kg	25	S-8260	07/28/1997	411
1,2-Dichloropropane	<30	ug/kg	25	S-8260	07/28/1997	411
1,3-Dichloropropane	<30	ug/kg	25	S-8260	07/28/1997	411
2,2-Dichloropropane	<30	ug/kg	25	S-8260	07/28/1997	411
1,1-Dichloropropene	<30	ug/kg	25	S-8260	07/28/1997	411
cis-1,3-Dichloropropene	<30	ug/kg	25	S-8260	07/28/1997	411
trans-1,3-Dichloropropene	<30	ug/kg	25	S-8260	07/28/1997	411
Di-isopropyl ether	<30	ug/kg	25	S-8260	07/28/1997	411
Ethylbenzene	<30	ug/kg	25	S-8260	07/28/1997	411

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ANALYTICAL REPORT

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TAYLOR INDUSTRIAL VAC, INC
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Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258649
Account No: 71290
Page 7

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-2-15
Recv'd 3.0 C

Date Taken: 07/23/1997 09:10 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Hexachlorobutadiene	<42	ug/kg	35	S-8260	07/28/1997	411
Isopropylbenzene	<30	ug/kg	25	S-8260	07/28/1997	411
p-Isopropyltoluene	<30	ug/kg	25	S-8260	07/28/1997	411
Methylene Chloride	<60	ug/kg	50	S-8260	07/28/1997	411
Methyl-t-butyl ether	<30	ug/kg	25	S-8260	07/28/1997	411
Naphthalene	<30	ug/kg	25	S-8260	07/28/1997	411
n-Propylbenzene	<30	ug/kg	25	S-8260	07/28/1997	411
Styrene	<30	ug/kg	25	S-8260	07/28/1997	411
1,1,1,2-Tetrachloroethane	<30	ug/kg	25	S-8260	07/28/1997	411
1,1,2,2-Tetrachloroethane	<30	ug/kg	25	S-8260	07/28/1997	411
Tetrachloroethene	<30	ug/kg	25	S-8260	07/28/1997	411
Toluene	<30	ug/kg	25	S-8260	07/28/1997	411
1,2,3-Trichlorobenzene	<30	ug/kg	25	S-8260	07/28/1997	411
1,2,4-Trichlorobenzene	<30	ug/kg	25	S-8260	07/28/1997	411
1,1,1-Trichloroethane	<30	ug/kg	25	S-8260	07/28/1997	411
1,1,2-Trichloroethane	<30	ug/kg	25	S-8260	07/28/1997	411
Trichloroethene	<30	ug/kg	25	S-8260	07/28/1997	411
Trichlorofluoromethane	<30	ug/kg	25	S-8260	07/28/1997	411
1,2,3-Trichloropropane	<30	ug/kg	25	S-8260	07/28/1997	411
1,2,4-Trimethylbenzene	<30	ug/kg	25	S-8260	07/28/1997	411
1,3,5-Trimethylbenzene	<30	ug/kg	25	S-8260	07/28/1997	411
Vinyl Chloride	<30	ug/kg	25	S-8260	07/28/1997	411
Xylenes, Total	<42	ug/kg	35	S-8260	07/28/1997	411
Surr: Dibromofluoromethane	95.4	%	n/a	S-8260	07/28/1997	411
Surr: Toluene-d8	99.0	%	n/a	S-8260	07/28/1997	411
Surr: Bromofluorobenzene	97.4	%	n/a	S-8260	07/28/1997	411

NATIONAL ENVIRONMENTAL TESTING, INC.

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WDNR No. 128053530

ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258650
Account No: 71290
Page 8

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-2-20
Recv'd 3.0 C

Date Taken: 07/23/1997 09:15 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Benzene	<28	ug/kg	25	S-8260	07/25/1997	410
Bromobenzene	<28	ug/kg	25	S-8260	07/25/1997	410
Bromochloromethane	<28	ug/kg	25	S-8260	07/25/1997	410
Bromodichloromethane	<28	ug/kg	25	S-8260	07/25/1997	410
Bromoform	<28	ug/kg	25	S-8260	07/25/1997	410
Bromomethane	<110	ug/kg	100	S-8260	07/25/1997	410
n-Butylbenzene	<28	ug/kg	25	S-8260	07/25/1997	410
sec-Butylbenzene	<28	ug/kg	25	S-8260	07/25/1997	410
tert-Butylbenzene	<28	ug/kg	25	S-8260	07/25/1997	410
Carbon Tetrachloride	<28	ug/kg	25	S-8260	07/25/1997	410
Chlorobenzene	<28	ug/kg	25	S-8260	07/25/1997	410
Chlorodibromomethane	<28	ug/kg	25	S-8260	07/25/1997	410
Chloroethane	<38	ug/kg	35	S-8260	07/25/1997	410
Chloroform	<28	ug/kg	25	S-8260	07/25/1997	410
Chloromethane	<33	ug/kg	30	S-8260	07/25/1997	410
2-Chlorotoluene	<28	ug/kg	25	S-8260	07/25/1997	410
4-Chlorotoluene	<28	ug/kg	25	S-8260	07/25/1997	410
1,2-Dibromo-3-Chloropropane	<55	ug/kg	50	S-8260	07/25/1997	410
1,2-Dibromoethane (EDB)	<28	ug/kg	25	S-8260	07/25/1997	410
Dibromomethane	<28	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichlorobenzene	<28	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichlorobenzene	<28	ug/kg	25	S-8260	07/25/1997	410
1,4-Dichlorobenzene	<28	ug/kg	25	S-8260	07/25/1997	410
Dichlorodifluoromethane	<28	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloroethane	<28	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloroethane	<14	ug/kg	13	S-8260	07/25/1997	410
1,1-Dichloroethene	<28	ug/kg	25	S-8260	07/25/1997	410
cis-1,2-Dichloroethene	<28	ug/kg	25	S-8260	07/25/1997	410
trans-1,2-Dichloroethene	<28	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloropropane	<28	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichloropropane	<28	ug/kg	25	S-8260	07/25/1997	410
2,2-Dichloropropane	<28	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloropropene	<28	ug/kg	25	S-8260	07/25/1997	410
cis-1,3-Dichloropropene	<28	ug/kg	25	S-8260	07/25/1997	410
trans-1,3-Dichloropropene	<28	ug/kg	25	S-8260	07/25/1997	410
Di-isopropyl ether	<28	ug/kg	25	S-8260	07/25/1997	410
Ethylbenzene	<28	ug/kg	25	S-8260	07/25/1997	410

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ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258650
Account No: 71290
Page 9

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-2-20
Recv'd 3.0 C

Date Taken: 07/23/1997 09:15 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Hexachlorobutadiene	<38	ug/kg	35	S-8260	07/25/1997	410
Isopropylbenzene	<28	ug/kg	25	S-8260	07/25/1997	410
p-Isopropyltoluene	<28	ug/kg	25	S-8260	07/25/1997	410
Methylene Chloride	<55	ug/kg	50	S-8260	07/25/1997	410
Methyl-t-butyl ether	<28	ug/kg	25	S-8260	07/25/1997	410
Naphthalene	<28	ug/kg	25	S-8260	07/25/1997	410
n-Propylbenzene	<28	ug/kg	25	S-8260	07/25/1997	410
Styrene	<28	ug/kg	25	S-8260	07/25/1997	410
1,1,1,2-Tetrachloroethane	<28	ug/kg	25	S-8260	07/25/1997	410
1,1,2,2-Tetrachloroethane	<28	ug/kg	25	S-8260	07/25/1997	410
Tetrachloroethene	<28	ug/kg	25	S-8260	07/25/1997	410
Toluene	<28	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichlorobenzene	<28	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trichlorobenzene	<28	ug/kg	25	S-8260	07/25/1997	410
1,1,1-Trichloroethane	<28	ug/kg	25	S-8260	07/25/1997	410
1,1,2-Trichloroethane	<28	ug/kg	25	S-8260	07/25/1997	410
Trichloroethene	<28	ug/kg	25	S-8260	07/25/1997	410
Trichlorofluoromethane	<28	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichloropropane	<28	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trimethylbenzene	<28	ug/kg	25	S-8260	07/25/1997	410
1,3,5-Trimethylbenzene	<28	ug/kg	25	S-8260	07/25/1997	410
Vinyl Chloride	<28	ug/kg	25	S-8260	07/25/1997	410
Xylenes, Total	<38	ug/kg	35	S-8260	07/25/1997	410
Surr: Dibromofluoromethane	103.0	%	n/a	S-8260	07/25/1997	410
Surr: Toluene-d8	96.4	%	n/a	S-8260	07/25/1997	410
Surr: Bromofluorobenzene	96.4	%	n/a	S-8260	07/25/1997	410

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ANALYTICAL REPORT

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TAYLOR INDUSTRIAL VAC, INC
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07/29/1997
Job No: 97.06980
Sample No: 258654
Account No: 71290
Page 10

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-3-5
Recv'd 3.0 C

Date Taken: 07/23/1997 10:00 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Benzene	<25	ug/kg	25	S-8260	07/25/1997	410
Bromobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Bromochloromethane	<25	ug/kg	25	S-8260	07/25/1997	410
Bromodichloromethane	<25	ug/kg	25	S-8260	07/25/1997	410
Bromoform	<25	ug/kg	25	S-8260	07/25/1997	410
Bromomethane	<100	ug/kg	100	S-8260	07/25/1997	410
n-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
sec-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
tert-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Carbon Tetrachloride	<25	ug/kg	25	S-8260	07/25/1997	410
Chlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Chlorodibromomethane	<25	ug/kg	25	S-8260	07/25/1997	410
Chloroethane	<35	ug/kg	35	S-8260	07/25/1997	410
Chloroform	<25	ug/kg	25	S-8260	07/25/1997	410
Chloromethane	<30	ug/kg	30	S-8260	07/25/1997	410
2-Chlorotoluene	<25	ug/kg	25	S-8260	07/25/1997	410
4-Chlorotoluene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dibromo-3-Chloropropane	<50	ug/kg	50	S-8260	07/25/1997	410
1,2-Dibromoethane (EDB)	<25	ug/kg	25	S-8260	07/25/1997	410
Dibromomethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,4-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Dichlorodifluoromethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloroethane	<13	ug/kg	13	S-8260	07/25/1997	410
1,1-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
cis-1,2-Dichloroethene	490	ug/kg	25	S-8260	07/25/1997	410
trans-1,2-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
2,2-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
cis-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
trans-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
Di-isopropyl ether	<25	ug/kg	25	S-8260	07/25/1997	410
Ethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410

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ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
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Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258654
Account No: 71290
Page 11

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP-3-5
Recv'd 3.0 C

Date Taken: 07/23/1997 10:00 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Hexachlorobutadiene	<35	ug/kg	35	S-8260	07/25/1997	410
Isopropylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
p-Isopropyltoluene	<25	ug/kg	25	S-8260	07/25/1997	410
Methylene Chloride	<50	ug/kg	50	S-8260	07/25/1997	410
Methyl-t-butyl ether	<25	ug/kg	25	S-8260	07/25/1997	410
Naphthalene	<25	ug/kg	25	S-8260	07/25/1997	410
n-Propylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Styrene	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,1,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,2,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
Tetrachloroethene	83,000	ug/kg	25	S-8260	07/28/1997	411
Toluene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,1-Trichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,2-Trichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
Trichloroethene	530	ug/kg	25	S-8260	07/25/1997	410
Trichlorofluoromethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trimethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,3,5-Trimethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Vinyl Chloride	<25	ug/kg	25	S-8260	07/25/1997	410
Xylenes, Total	<35	ug/kg	35	S-8260	07/25/1997	410
Surr: Dibromofluoromethane	101.4	%	n/a	S-8260	07/25/1997	410
Surr: Toluene-d8	95.0	%	n/a	S-8260	07/25/1997	410
Surr: Bromofluorobenzene	97.6	%	n/a	S-8260	07/25/1997	410

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ANALYTICAL REPORT

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07/29/1997
Job No: 97.06980
Sample No: 258655
Account No: 71290
Page 12

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP3-10
Recv'd 3.0 C

Date Taken: 07/23/1997 10:08 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Benzene	<25	ug/kg	25	S-8260	07/28/1997	411
Bromobenzene	<25	ug/kg	25	S-8260	07/28/1997	411
Bromochloromethane	<25	ug/kg	25	S-8260	07/28/1997	411
Bromodichloromethane	<25	ug/kg	25	S-8260	07/28/1997	411
Bromoform	<25	ug/kg	25	S-8260	07/28/1997	411
Bromomethane	<100	ug/kg	100	S-8260	07/28/1997	411
n-Butylbenzene	<25	ug/kg	25	S-8260	07/28/1997	411
sec-Butylbenzene	<25	ug/kg	25	S-8260	07/28/1997	411
tert-Butylbenzene	<25	ug/kg	25	S-8260	07/28/1997	411
Carbon Tetrachloride	<25	ug/kg	25	S-8260	07/28/1997	411
Chlorobenzene	<25	ug/kg	25	S-8260	07/28/1997	411
Chlorodibromomethane	<25	ug/kg	25	S-8260	07/28/1997	411
Chloroethane	<35	ug/kg	35	S-8260	07/28/1997	411
Chloroform	<25	ug/kg	25	S-8260	07/28/1997	411
Chloromethane	<30	ug/kg	30	S-8260	07/28/1997	411
2-Chlorotoluene	<25	ug/kg	25	S-8260	07/28/1997	411
4-Chlorotoluene	<25	ug/kg	25	S-8260	07/28/1997	411
1,2-Dibromo-3-Chloropropane	<50	ug/kg	50	S-8260	07/28/1997	411
1,2-Dibromoethane (EDB)	<25	ug/kg	25	S-8260	07/28/1997	411
Dibromomethane	<25	ug/kg	25	S-8260	07/28/1997	411
1,2-Dichlorobenzene	<25	ug/kg	25	S-8260	07/28/1997	411
1,3-Dichlorobenzene	<25	ug/kg	25	S-8260	07/28/1997	411
1,4-Dichlorobenzene	<25	ug/kg	25	S-8260	07/28/1997	411
Dichlorodifluoromethane	<25	ug/kg	25	S-8260	07/28/1997	411
1,1-Dichloroethane	<25	ug/kg	25	S-8260	07/28/1997	411
1,2-Dichloroethane	<13	ug/kg	13	S-8260	07/28/1997	411
1,1-Dichloroethene	<25	ug/kg	25	S-8260	07/28/1997	411
cis-1,2-Dichloroethene	<25	ug/kg	25	S-8260	07/28/1997	411
trans-1,2-Dichloroethene	<25	ug/kg	25	S-8260	07/28/1997	411
1,2-Dichloropropane	<25	ug/kg	25	S-8260	07/28/1997	411
1,3-Dichloropropane	<25	ug/kg	25	S-8260	07/28/1997	411
2,2-Dichloropropane	<25	ug/kg	25	S-8260	07/28/1997	411
1,1-Dichloropropene	<25	ug/kg	25	S-8260	07/28/1997	411
cis-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/28/1997	411
trans-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/28/1997	411
Di-isopropyl ether	<25	ug/kg	25	S-8260	07/28/1997	411
Ethylbenzene	<25	ug/kg	25	S-8260	07/28/1997	411

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ANALYTICAL REPORT

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TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
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07/29/1997
Job No: 97.06980
Sample No: 258655
Account No: 71290
Page 13

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: GP3-10
Recv'd 3.0 C

Date Taken: 07/23/1997 10:08 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Hexachlorobutadiene	<35	ug/kg	35	S-8260	07/28/1997	411
Isopropylbenzene	<25	ug/kg	25	S-8260	07/28/1997	411
p-Isopropyltoluene	<25	ug/kg	25	S-8260	07/28/1997	411
Methylene Chloride	<50	ug/kg	50	S-8260	07/28/1997	411
Methyl-t-butyl ether	<25	ug/kg	25	S-8260	07/28/1997	411
Naphthalene	<25	ug/kg	25	S-8260	07/28/1997	411
n-Propylbenzene	<25	ug/kg	25	S-8260	07/28/1997	411
Styrene	<25	ug/kg	25	S-8260	07/28/1997	411
1,1,1,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/28/1997	411
1,1,2,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/28/1997	411
Tetrachloroethene	56	ug/kg	25	S-8260	07/28/1997	411
Toluene	<25	ug/kg	25	S-8260	07/28/1997	411
1,2,3-Trichlorobenzene	<25	ug/kg	25	S-8260	07/28/1997	411
1,2,4-Trichlorobenzene	<25	ug/kg	25	S-8260	07/28/1997	411
1,1,1-Trichloroethane	<25	ug/kg	25	S-8260	07/28/1997	411
1,1,2-Trichloroethane	<25	ug/kg	25	S-8260	07/28/1997	411
Trichloroethene	<25	ug/kg	25	S-8260	07/28/1997	411
Trichlorofluoromethane	<25	ug/kg	25	S-8260	07/28/1997	411
1,2,3-Trichloropropane	<25	ug/kg	25	S-8260	07/28/1997	411
1,2,4-Trimethylbenzene	<25	ug/kg	25	S-8260	07/28/1997	411
1,3,5-Trimethylbenzene	<25	ug/kg	25	S-8260	07/28/1997	411
Vinyl Chloride	<25	ug/kg	25	S-8260	07/28/1997	411
Xylenes, Total	<35	ug/kg	35	S-8260	07/28/1997	411
Surr: Dibromofluoromethane	96.0	%	n/a	S-8260	07/28/1997	411
Surr: Toluene-d8	97.0	%	n/a	S-8260	07/28/1997	411
Surr: Bromofluorobenzene	95.6	%	n/a	S-8260	07/28/1997	411

NATIONAL ENVIRONMENTAL TESTING, INC.

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WDNR No. 128053530

ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258656
Account No: 71290
Page 14

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: Trip Blk
Recv'd 3.0 C

Date Taken: 07/23/1997 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Benzene	<25	ug/kg	25	S-8260	07/25/1997	410
Bromobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Bromochloromethane	<25	ug/kg	25	S-8260	07/25/1997	410
Bromodichloromethane	<25	ug/kg	25	S-8260	07/25/1997	410
Bromoform	<25	ug/kg	25	S-8260	07/25/1997	410
Bromomethane	<100	ug/kg	100	S-8260	07/25/1997	410
n-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
sec-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
tert-Butylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Carbon Tetrachloride	<25	ug/kg	25	S-8260	07/25/1997	410
Chlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Chlorodibromomethane	<25	ug/kg	25	S-8260	07/25/1997	410
Chloroethane	<35	ug/kg	35	S-8260	07/25/1997	410
Chloroform	<25	ug/kg	25	S-8260	07/25/1997	410
Chloromethane	<30	ug/kg	30	S-8260	07/25/1997	410
2-Chlorotoluene	<25	ug/kg	25	S-8260	07/25/1997	410
4-Chlorotoluene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dibromo-3-Chloropropane	<50	ug/kg	50	S-8260	07/25/1997	410
1,2-Dibromoethane (EDB)	<25	ug/kg	25	S-8260	07/25/1997	410
Dibromomethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,4-Dichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Dichlorodifluoromethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloroethane	<13	ug/kg	13	S-8260	07/25/1997	410
1,1-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
cis-1,2-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
trans-1,2-Dichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,3-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
2,2-Dichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
cis-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
trans-1,3-Dichloropropene	<25	ug/kg	25	S-8260	07/25/1997	410
Di-isopropyl ether	<25	ug/kg	25	S-8260	07/25/1997	410
Ethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410

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ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

07/29/1997
Job No: 97.06980
Sample No: 258656
Account No: 71290

JOB DESCRIPTION: Key Products Sample
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: Trip Blk
Recv'd 3.0 C

Date Taken: 07/23/1997 Date Received: 07/24/1997

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
VOC - METHANOL - 8260						
Hexachlorobutadiene	<35	ug/kg	35	S-8260	07/25/1997	410
Isopropylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
p-Isopropyltoluene	<25	ug/kg	25	S-8260	07/25/1997	410
Methylene Chloride	<50	ug/kg	50	S-8260	07/25/1997	410
Methyl-t-butyl ether	<25	ug/kg	25	S-8260	07/25/1997	410
Naphthalene	<25	ug/kg	25	S-8260	07/25/1997	410
n-Propylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Styrene	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,1,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,2,2-Tetrachloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
Tetrachloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
Toluene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trichlorobenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,1-Trichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,1,2-Trichloroethane	<25	ug/kg	25	S-8260	07/25/1997	410
Trichloroethene	<25	ug/kg	25	S-8260	07/25/1997	410
Trichlorofluoromethane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,3-Trichloropropane	<25	ug/kg	25	S-8260	07/25/1997	410
1,2,4-Trimethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
1,3,5-Trimethylbenzene	<25	ug/kg	25	S-8260	07/25/1997	410
Vinyl Chloride	<25	ug/kg	25	S-8260	07/25/1997	410
Xylenes, Total	<35	ug/kg	35	S-8260	07/25/1997	410
Surr: Dibromofluoromethane	103.0	%	n/a	S-8260	07/25/1997	410
Surr: Toluene-d8	96.6	%	n/a	S-8260	07/25/1997	410
Surr: Bromofluorobenzene	100.2	%	n/a	S-8260	07/25/1997	410

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ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

08/04/1997
Job No: 97.06981
Sample No: 258658
Account No: 71290

JOB DESCRIPTION: Key Products
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: GP-3-Water
Recv'd 3.0 C

Date Taken: 07/23/1997 10:15 Date Received: 07/24/1997

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
VOC - AQUEOUS - EPA 8260							
Benzene	7.0	ug/L	0.31	0.98	S-8260	07/31/1997	1024
Bromobenzene	<4.0	ug/L	0.20	0.64	S-8260	07/31/1997	1024
Bromochloromethane	<6.4	ug/L	0.32	1.0	S-8260	07/31/1997	1024
Bromodichloromethane	<4.0	ug/L	0.20	0.63	S-8260	07/31/1997	1024
Bromoform	<2.8	ug/L	0.14	0.45	S-8260	07/31/1997	1024
Bromomethane	<9.2	ug/L	0.46	1.5	S-8260	07/31/1997	1024
n-Butylbenzene	12	ug/L	0.44	1.4	S-8260	07/31/1997	1024
sec-Butylbenzene	16	ug/L	0.45	1.4	S-8260	07/31/1997	1024
tert-Butylbenzene	<7.6	ug/L	0.38	1.2	S-8260	07/31/1997	1024
Carbon Tetrachloride	<8.0	ug/L	0.40	1.3	S-8260	07/31/1997	1024
Chlorobenzene	<4.4	ug/L	0.22	0.69	S-8260	07/31/1997	1024
Chlorodibromomethane	<2.0	ug/L	0.10	0.33	S-8260	07/31/1997	1024
Chloroethane	<24	ug/L	1.2	3.9	S-8260	07/31/1997	1024
Chloroform	<3.6	ug/L	0.18	0.58	S-8260	07/31/1997	1024
Chloromethane	<7.6	ug/L	0.38	1.2	S-8260	07/31/1997	1024
2-Chlorotoluene	<5.6	ug/L	0.28	0.90	S-8260	07/31/1997	1024
4-Chlorotoluene	<9.4	ug/L	0.47	1.5	S-8260	07/31/1997	1024
1,2-Dibromo-3-Chloropropane	<28	ug/L	1.4	4.5	S-8260	07/31/1997	1024
1,2-Dibromoethane (EDB)	<3.2	ug/L	0.16	0.51	S-8260	07/31/1997	1024
Dibromomethane	<2.2	ug/L	0.11	0.36	S-8260	07/31/1997	1024
1,2-Dichlorobenzene	<4.0	ug/L	0.20	0.64	S-8260	07/31/1997	1024
1,3-Dichlorobenzene	<4.4	ug/L	0.22	0.71	S-8260	07/31/1997	1024
1,4-Dichlorobenzene	<7.0	ug/L	0.35	1.1	S-8260	07/31/1997	1024
Dichlorodifluoromethane	<9.8	ug/L	0.49	1.6	S-8260	07/31/1997	1024
1,1-Dichloroethane	<5.0	ug/L	0.25	0.79	S-8260	07/31/1997	1024
1,2-Dichloroethane	<4.0	ug/L	0.20	0.63	S-8260	07/31/1997	1024
1,1-Dichloroethene	<15	ug/L	0.73	2.3	S-8260	07/31/1997	1024
cis-1,2-Dichloroethene	3,800	ug/L	0.23	0.74	S-8260	07/31/1997	1024
trans-1,2-Dichloroethene	25	ug/L	0.39	1.2	S-8260	07/31/1997	1024
1,2-Dichloropropane	<5.8	ug/L	0.29	0.93	S-8260	07/31/1997	1024
1,3-Dichloropropane	<3.0	ug/L	0.15	0.46	S-8260	07/31/1997	1024
2,2-Dichloropropane	<7.4	ug/L	0.37	1.2	S-8260	07/31/1997	1024
1,1-Dichloropropene	<13	ug/L	0.63	2.0	S-8260	07/31/1997	1024
cis-1,3-Dichloropropene	<3.4	ug/L	0.17	0.56	S-8260	07/31/1997	1024
trans-1,3-Dichloropropene	<2.6	ug/L	0.13	0.42	S-8260	07/31/1997	1024
Di-isopropyl ether	<2.6	ug/L	0.13	0.41	S-8260	07/31/1997	1024

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ANALYTICAL REPORT

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

08/04/1997
Job No: 97.06981
Sample No: 258658
Account No: 71290

JOB DESCRIPTION: Key Products
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: GP-3-Water
Recv'd 3.0 C

Date Taken: 07/23/1997 10:15 Date Received: 07/24/1997

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
Ethylbenzene	99	ug/L	0.38	1.2	S-8260	07/31/1997	1024
Hexachlorobutadiene	<7.4	ug/L	0.37	1.2	S-8260	07/31/1997	1024
Isopropylbenzene	15	ug/L	0.36	1.1	S-8260	07/31/1997	1024
p-Isopropyltoluene	<7.0	ug/L	0.35	1.1	S-8260	07/31/1997	1024
Methylene Chloride	<17	ug/L	0.87	3.1	S-8260	07/31/1997	1024
Methyl-t-butyl ether	<2.8	ug/L	0.14	0.45	S-8260	07/31/1997	1024
Naphthalene	<7.0	ug/L	0.35	1.1	S-8260	07/31/1997	1024
n-Propylbenzene	20	ug/L	0.46	1.5	S-8260	07/31/1997	1024
Styrene	<3.2	ug/L	0.16	0.51	S-8260	07/31/1997	1024
1,1,1,2-Tetrachloroethane	<2.2	ug/L	0.11	0.34	S-8260	07/31/1997	1024
1,1,2,2-Tetrachloroethane	<7.8	ug/L	0.39	1.3	S-8260	07/31/1997	1024
Tetrachloroethene	2,200	ug/L	0.63	2.0	S-8260	07/31/1997	1024
Toluene	<7.8	ug/L	0.39	1.3	S-8260	07/31/1997	1024
1,2,3-Trichlorobenzene	<6.4	ug/L	0.32	1.0	S-8260	07/31/1997	1024
1,2,4-Trichlorobenzene	<3.6	ug/L	0.18	0.57	S-8260	07/31/1997	1024
1,1,1-Trichloroethane	<5.6	ug/L	0.28	0.88	S-8260	07/31/1997	1024
1,1,2-Trichloroethane	<3.0	ug/L	0.15	0.46	S-8260	07/31/1997	1024
Trichloroethene	430	ug/L	0.49	1.6	S-8260	07/31/1997	1024
Trichlorofluoromethane	<12	ug/L	0.58	1.8	S-8260	07/31/1997	1024
1,2,3-Trichloropropane	<5.6	ug/L	0.28	0.90	S-8260	07/31/1997	1024
1,2,4-Trimethylbenzene	100	ug/L	0.32	1.0	S-8260	07/31/1997	1024
1,3,5-Trimethylbenzene	14	ug/L	0.33	1.0	S-8260	07/31/1997	1024
Vinyl Chloride	990	ug/L	0.46	1.5	S-8260	07/31/1997	1024
Xylenes, Total	120	ug/L	1.1	3.6	S-8260	07/31/1997	1024
Surr: Dibromofluoromethane	107.8	%	n/a	n/a	S-8260	07/31/1997	1024
Surr: Toluene-d8	102.8	%	n/a	n/a	S-8260	07/31/1997	1024
Surr: Bromofluorobenzene	105.4	%	n/a	n/a	S-8260	07/31/1997	1024

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QUALITY CONTROL REPORT

BLANKS

08/04/1997

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

Job No: 97.06981
Account No: 71290

Job Description: Key Products

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LCQ	Units
VOC - AQUEOUS - EPA 8260						
Benzene		1024	<0.31	0.31	0.98	ug/L
Bromobenzene		1024	<0.20	0.20	0.64	ug/L
Bromochloromethane		1024	<0.32	0.32	1.0	ug/L
Bromodichloromethane		1024	<0.20	0.20	0.63	ug/L
Bromoform		1024	<0.14	0.14	0.45	ug/L
Bromomethane		1024	<0.46	0.46	1.5	ug/L
n-Butylbenzene		1024	<0.44	0.44	1.4	ug/L
sec-Butylbenzene		1024	<0.45	0.45	1.4	ug/L
tert-Butylbenzene		1024	<0.38	0.38	1.2	ug/L
Carbon Tetrachloride		1024	<0.40	0.40	1.3	ug/L
Chlorobenzene		1024	<0.22	0.22	0.69	ug/L
Chlorodibromomethane		1024	<0.10	0.10	0.33	ug/L
Chloroethane		1024	<1.2	1.2	3.9	ug/L
Chloroform		1024	<0.18	0.18	0.58	ug/L
Chloromethane		1024	<0.38	0.38	1.2	ug/L
2-Chlorotoluene		1024	<0.28	0.28	0.90	ug/L
4-Chlorotoluene		1024	<0.47	0.47	1.5	ug/L
1,2-Dibromo-3-Chloropropane		1024	<1.4	1.4	4.5	ug/L
1,2-Dibromoethane (EDB)		1024	<0.16	0.16	0.51	ug/L
Dibromomethane		1024	<0.11	0.11	0.36	ug/L
1,2-Dichlorobenzene		1024	<0.20	0.20	0.64	ug/L
1,3-Dichlorobenzene		1024	<0.22	0.22	0.71	ug/L
1,4-Dichlorobenzene		1024	<0.35	0.35	1.1	ug/L
Dichlorodifluoromethane		1024	<0.49	0.49	1.6	ug/L
1,1-Dichloroethane		1024	<0.25	0.25	0.79	ug/L
1,2-Dichloroethane		1024	<0.20	0.20	0.63	ug/L
1,1-Dichloroethene		1024	<0.73	0.73	2.3	ug/L
cis-1,2-Dichloroethene		1024	<0.23	0.23	0.74	ug/L
trans-1,2-Dichloroethene		1024	<0.39	0.39	1.2	ug/L
1,2-Dichloropropane		1024	<0.29	0.29	0.93	ug/L
1,3-Dichloropropane		1024	<0.15	0.15	0.46	ug/L
2,2-Dichloropropane		1024	<0.37	0.37	1.2	ug/L
1,1-Dichloropropene		1024	<0.63	0.63	2.0	ug/L
cis-1,3-Dichloropropene		1024	<0.17	0.17	0.56	ug/L
trans-1,3-Dichloropropene		1024	<0.13	0.13	0.42	ug/L
Di-isopropyl ether		1024	<0.13	0.13	0.41	ug/L
Ethylbenzene		1024	<0.38	0.38	1.2	ug/L
Hexachlorobutadiene		1024	<0.37	0.37	1.2	ug/L

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QUALITY CONTROL REPORT

BLANKS

08/04/1997

Mr. Don Gagas
TAYLOR INDUSTRIAL VAC, INC
2711 West Townsend
P. O. Box 16579
Milwaukee, WI 53216

Job No: 97.06981
Account No: 71290

Job Description: Key Products

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Isopropylbenzene		1024	<0.36	0.36	1.1	ug/L
p-Isopropyltoluene		1024	<0.35	0.35	1.1	ug/L
Methylene Chloride		1024	<0.87	0.87	3.1	ug/L
Methyl-t-butyl ether		1024	<0.14	0.14	0.45	ug/L
Naphthalene		1024	<0.35	0.35	1.1	ug/L
n-Propylbenzene		1024	<0.46	0.46	1.5	ug/L
Styrene		1024	<0.16	0.16	0.51	ug/L
1,1,1,2-Tetrachloroethane		1024	<0.11	0.11	0.34	ug/L
1,1,2,2-Tetrachloroethane		1024	<0.39	0.39	1.3	ug/L
Tetrachloroethene		1024	<0.63	0.63	2.0	ug/L
Toluene		1024	<0.39	0.39	1.3	ug/L
1,2,3-Trichlorobenzene		1024	<0.32	0.32	1.0	ug/L
1,2,4-Trichlorobenzene		1024	<0.18	0.18	0.57	ug/L
1,1,1-Trichloroethane		1024	<0.28	0.28	0.88	ug/L
1,1,2-Trichloroethane		1024	<0.15	0.15	0.46	ug/L
Trichloroethene		1024	<0.49	0.49	1.6	ug/L
Trichlorofluoromethane		1024	<0.58	0.58	1.8	ug/L
1,2,3-Trichloropropane		1024	<0.28	0.28	0.90	ug/L
1,2,4-Trimethylbenzene		1024	<0.32	0.32	1.0	ug/L
1,3,5-Trimethylbenzene		1024	<0.33	0.33	1.0	ug/L
Vinyl Chloride		1024	<0.46	0.46	1.5	ug/L
Xylenes, Total		1024	<1.1	1.1	3.6	ug/L
Surr: Dibromofluoromethane		1024	102.2	n/a	n/a	%
Surr: Toluene-d8		1024	102.0	n/a	n/a	%
Surr: Bromofluorobenzene		1024	100.8	n/a	n/a	%

SUMMARY OF CONFIRMATION SAMPLES

Key Products on July 23, 1997 conducted an assessment of the former area where accidental release had occurred, located at company premises at 8634 W. Lynks, Milwaukee, Wisconsin 53225.

Laboratory analysis of soil samples taken from geoprobe activities during the assessment revealed VOC's levels at < 5 mg/kg - 83mg/kg respectively. Additionally, ground water was not encountered but a perched water sample was taken during assessment activities.

DISCUSSION AND SUMMARY

This report provides documentation of the geoprobe and sampling during assessment activities at the Key Products Property on 8634 W. Lynks, Milwaukee, Wisconsin 53225 .

This report is being prepared for Key Products's records and in fulfillment of the requirements of DNR requirements under NR700.

During assessment activities Materials Management & Training Ltd. arranged with geoprobe contractors to provide supervision, coordination and scheduling. The on-site contractor was responsible for geoprobe, health and safety considerations.

This assessment report has been performed in compliance with state and local requirements for release documentation reporting. The information in this report is based on the following:

- *Periodic site visits for the purpose of observing and documenting assessment geoprobe activities during the determination of extent of contamination.*
- *Observation and recording of the type, characteristics, and quantities of subsurface soil.*
- *Photographic recording of assessment and geoprobe activities.*
- *Documentation of subcontractors used during geoprobe activities.*
- *Written summary of observed assessment operations.*

This report was limited to the on-site assessment activities occurring at the former location of a lugger owned and operated by Key Products at 8634 W. Lynks, Milwaukee, Wisconsin 53225 . The assessment activities have been performed in compliance with state and local regulations.

CONCLUSIONS / RECOMMENDATION

On July 23, 1996 Key Products conducted an assessment according to DNR recommendations (Michael C. Thopmson). Assessment activities using PID readings and laboratory analysis revealed VOC levels of "no detect" to < 5.0 - 83 mg/kg respectively. Additionally, ground water was not encountered during sampling activities. Perched water was found at 5 feet bgs (4-6 feet bgs wet soil). Soil samples at 6-20 feet were moist to dry condition.

Based on these test results and previous data on the site, Key Products can conclude that the source of contamination was removed, insignificant contamination remains onsite and is exhibiting reduced levels over time possibly due to migration off-site, and no groundwater was impacted.

Due to no detected and reduced VOC levels and no groundwater impact Key Products respectfully submits this assessment report for review and no further action of the property located at 8634 W. Lynks, Milwaukee, Wisconsin 53225 .

ATTACHMENTS

NET® NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

7706981

COMPANY: Taylor Industries
ADDRESS: 711 W. Townsend St
PHONE: 447-4700 FAX: 447-4998
PROJECT NAME/LOCATION: Key Products
PROJECT NUMBER:
PROJECT MANAGER: Dan Gagne

REPORT TO: Taylor
INVOICE TO: Taylor
P.O. NO. Verbal
NET QUOTE NO.

SAMPLED BY: Dan Gagne (PRINT NAME) SIGNATURE: Donald Gagne
(PRINT NAME) SIGNATURE

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ___ No X

Is this work being conducted for regulatory enforcement action? Yes ___ No X

Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other X None ___

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: VOC's	COMMENTS
7/23/97	9:00	GP-2-5	S	X						1	X	
"	9:05	GP-2-10	S	X						1	X	
"	9:10	GP-2-15	S	X						1	X	
"	9:15	GP-2-20	S	X						1	X	
"	9:30	GP-1-5	S	X						1	X	
"	9:35	GP-1-10	S	X						1	X	
"	9:40	GP-1-15	S	X						1	X	
"	10:00	GP-3-5	S	X						1	X	
"	10:05	GP-3-10	S	X						1	X	
"	10:15	GP-3-Water	L	X						3	X	
		Temp Blank								1		
		Trip Blank								1	—	MeOH Received 3 only 1 Required 07-24-97 16:05 WLY disposed 2

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) / NO — FIELD FILTERED? YES / (NO)

COC SEALS PRESENT AND INTACT? YES / NO — VOLATILES FREE OF HEADSPACE? (YES) / NO

TEMPERATURE UPON RECEIPT: 3°C
Bottles supplied by NET? YES / NO
SAV 7/24/97 1607

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ___
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS ___ DATE ___

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Dan Gagne	7/23/97	1:30	Jerry Schmitz 7-24-97 1110	Jerry Schmitz	7-24-97	1550	[signature] 7/25/97

METHOD OF SHIPMENT

REMARKS:

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY: Taylor Industries
ADDRESS: 2711 W Townsend St
PHONE: 447-4700 FAX: 447-4995
PROJECT NAME/LOCATION: Key Products
PROJECT NUMBER:
PROJECT MANAGER: Dan Cruzgas

REPORT TO: Taylor
INVOICE TO: Taylor
P.O. NO. Verbal
NET QUOTE NO.

SAMPLED BY: Dan Cruzgas (PRINT NAME) SIGNATURE: Donald Griggs
(PRINT NAME) SIGNATURE

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ___ No X

Is this work being conducted for regulatory enforcement action? Yes ___ No X

Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other X None ___

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: VOCs										COMMENTS
7/21/97	9:00	GP-2-5	S	X						1	X										
"	9:05	GP-2-10	S	X						1	X										
"	9:10	GP-2-15	S	X						1	X										
"	9:15	GP-2-20	S	X						1	X										
"	9:30	GP-1-5	S	X						1	X										
"	9:35	GP-1-10	S	X						1	X										
"	9:40	GP-1-15	S	X						1	X										
"	10:00	GP-3-5	S	X						1	X										
	10:00	GP-3-10	S	X						1	X										
"	10:15	GP-3-Water	L	X						3	X										
		Temp Blank								1											
		Trip Blank								1											

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) / NO FIELD FILTERED? YES / (NO)

COC SEALS PRESENT AND INTACT? (YES) / NO VOLATILES FREE OF HEADSPACE? (YES) / NO

TEMPERATURE UPON RECEIPT: 3°C Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ______
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS ______ DATE ______

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Dan Cruzgas	7/21/97	1:30	[illegible signature] 7-21-97 1110				

METHOD OF SHIPMENT:

REMARKS:

9706980

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY: Taylor Environmental

ADDRESS: 711 W Townsend St

PHONE: 447-4700 FAX: 447-4998

PROJECT NAME/LOCATION: Key Products

PROJECT NUMBER:

PROJECT MANAGER: Dan Gorges

REPORT TO: Taylor

INVOICE TO: Taylor

P.O. NO.: Verbal

NET QUOTE NO.:

SAMPLED BY: Dan Gorges (PRINT NAME) SIGNATURE: [signature]

(PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: [illegible]
7/24/97	9:00	GP-2-5	S	X						1	X
"	9:05	GP-2-10	S	X						1	X
"	9:10	GP-2-15	S	X						1	X
"	9:15	GP-2-20	S	X						1	X
"	9:30	GP-1-5	S	X						1	X
"	9:35	GP-1-10	S	X						1	X
"	9:40	GP-1-15	S	X						1	X
"	10:00	GP-3-5	S	X						1	X
	10:05	GP-3-10	S	X						1	X
"	10:15	GP-3-Water	L	X						3	X
		Trip Blank								1	
		Trip Blank								1	-

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ___ No X

Is this work being conducted for regulatory enforcement action? Yes ___ No X

Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other X None ___

COMMENTS

MeOH Received 3 only 1 required 07-24-97 16:05 WC? disposed 2.

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) / NO FIELD FILTERED? YES / (NO)

COC SEALS PRESENT AND INTACT? YES / NO VOLATILES FREE OF HEADSPACE? (YES) / NO

TEMPERATURE UPON RECEIPT: 3°C

Bottles supplied by NET? YES / NO

SAW 7/24/97 1607

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ___

I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS ___ DATE ___

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Dan Gorges	7/24/97	1:30	Jerry Schmitz 7-24-97 1110	Jerry Schmitz	7-24-97	1550	[signature] 7/25/97

METHOD OF SHIPMENT

REMARKS:

PT 1 ORIGINAL WHITE PT 2 ...

WORKPLAN

TO DETERMINE THE EXTENT OF

CONTAMINATION

Prepared for:

KEY PRODUCTS
8634 W. LYNKS
MILWAUKEE, WI 53225

Prepared by:

MATERIALS MGMT. & TRAINING LTD.
14705 East View Ct.
Brookfield, WI 53005

June 4, 1997

TABLE OF CONTENTS

WRITTEN WORKPLAN FOR ASSESSMENT ACTIVITIES

1.0 Scope of Work

The following written workplan sets forth the procedures to be followed during the assessment activities to determine the extent of contamination.

1.1 Introduction

Materials Management & Training Ltd. proposes to supply the necessary labor, materials and supervision to conduct assessment activities at the Key Products property, 8634 W Lynks, Milwaukee, WI 53225. The tasks for the completion of this project involve the following:

1.2 Notification
1.3 Geoprobe activities
1.4 Soil sampling
1.5 Water sampling
1.6 Documentation requirements
1.7 Reporting

The Geoprobe contractor will be:

ESP Enterprises Inc.
1784 Barton Ave., Suite 22.
West Bend, Wisconsin 53095

The documentation and reporting will be performed by Don Gagas of Materials Management & Training Ltd., who is certified by the State of Wisconsin for assessment (Certification no. 01275).

The general contractor will have a site health and safety plan (HSP) for all activities onsite during the excavation.

1.2 Notification

The contractor will notify the state DNR, in writing, 30 days prior to commencement of the assessment activities. ***A tentative date is set for geoprobe activities and sampling on July 17, 1997.*** *The contractor will identify any local ordinances governing assessment activities.*

1.3 *Geoprobe Activities*

1. *Prior to excavation:*

   a. *All utilities and obstructions will be located and visibly marked.*
   b. *All access will be restricted and roped off.*
   c. *Sources of ignition will be eliminated.*
   d. *Non-sparking tools will be used.*
   e. *All hoses and motors will be grounded to prevent electrostatic ignition.*

2. *Drilling locations will be according to the attached diagram..*

3. *The samples will be visually inspected for signs of contamination. This will involve inspecting for evidence of further contamination such as stained soil, free liquids, and odors which may be indicative of petroleum contamination.*

4. *Geoprobe activities will be photo documented.*

5. *After the soil and water samples are obtained a determination will be made for a potential 3 geoprobe location.*

1.4 *Water Sampling*

1. *Obtain a statement of qualifications of the person collecting the samples.*

2. *Collect soil samples from the following locations:*

   a. *Collect soil samples from native soil (not from backfill).*
   b. *Collect samples from areas with strong odors.*
   c. *Collect samples from areas with soil discoloration.*
   d. ***Collect water samples at a depth of 15 feet.***

3. *Collect soil samples as follows:*

   a. *Collect soil samples with as little disturbance and exposure to air as possible.*
   b. *Use trowel or hand auger to sample soil directly from the excavation area.*
   c. *Sample soil from backhoe bucket in hazardous conditions.*
   d. *Clean tools thoroughly between all sampling points. The decontamination procedures will be soap water wash; clean water rinse; solvent (ie., hexane) dry.*
   e. *Collect samples from unexposed areas by first scraping away 34 inches of soil.*

4. *Sample containers:*
   a. *Must be of glass or inert material.*
   b. *Must have Teflon (or equivalent) lined cap.*
   c. *Should be wide-mouth to prevent soil agitation.*

d. Must be filled to the brim with soil.

5. *Sample handling:*

   a. Label samples prior to or immediately after collection.
   b. Samples should have I.D. number and date.
   c. Seal samples immediately following collection.
   d. Chill samples immediately (4 deg. C)
   e. Follow chain-of-custody procedures.
   f. Ship to lab as soon as possible.
   g. Analyze samples using WI DNR approved methods.

1.5 Soil Sampling

1. *Obtain a statement of qualifications of the person collecting the samples.*

2. *Collect soil samples from the following locations:*

   a. Collect soil samples from native soil (not from backfill).
   b. Collect samples from areas with strong odors.
   c. Collect samples from areas with soil discoloration.
   d. ***Collect samples at 5 foot increments to a depth of 15 feet (3-samples)..***

3. *Collect soil samples as follows:*

   a. Collect soil samples with as little disturbance and exposure to air as possible.
   b. Use sampling tube to remove soil directly from the excavation area.
   c. Clean tools thoroughly between all sampling points. The decontamination procedures will be soap water wash; clean water rinse; solvent (ie., hexane) dry.
   d. Collect samples from unexposed areas by first scraping away ~~3~~4 inches of soil.

4. *Sample containers:*

   a. Must be of glass or inert material.
   b. Must have Teflon (or equivalent) lined cap.
   c. Should be wide-mouth to prevent soil agitation.
   d. Must be filled to the brim with soil.

5. *Sample handling:*

   a. Label samples prior to or immediately after collection.
   b. Samples should have I.D. number and date.
   c. Seal samples immediately following collection.
   d. Chill samples immediately (4 deg. C)
   e. Follow chain-of-custody procedures.

f. Ship to lab as soon as possible.

g. Analyze samples using WI DNR approved methods.

1.6 Documentation Requirements

1. *Provide site background information in narrative form:*

   a. Site owner and address.
   b. Contact person and telephone number.
   c. Assessment method to determine extent.
   d. Environmental consultant.
   e. Geoprobe contractor.
   f. Description of past and present property use.
   g. Description of tanks previously removed.
   h. Description of tanks remaining onsite.
   i. Results of previous geotechnical investigations, if applicable.
   j. Information on past system leaks or repairs.
   k. Other tanks or gas stations in the vicinity.
   l. Legal description of the site (quarter/quarter section, township range).
   m. Other relevant data.

2. *Site Map, Scale 1": 1'-0"*

3. *Site layout showing the location of:*

   a. Any pre-existing site conditions.
   b. Piping.
   c. Utilities.
   d. Buildings.
   e. Field instrument sampling points (if applicable).
   f. Lab analysis sampling points.
   g. Areal extent of excavation and depth below original grade.
   h. Map scale (1" = 10').
   i. North arrow.
   j. Title.
   k. Name of map draftsman.

4. *Tabulated field and lab data showing:*

   a. Lab results for each sample and field readings where applicable.
   b. Location of each sample or field reading keyed to site layout.
   c. Depth at which sample(s) was/were taken.
   d. Relative moisture content of sample(s).
   e. Petroleum product odor if present.
   f. Instrument quenching.

5. *Provide copies of:*

   a. *Laboratory analysis.*
   b. *Chain-of-custody forms.*

6. *Observations:*

   a. *Soil type, USGS classification.*
   b. *Excavation depth.*
   c. *Tank and piping condition.*
   d. *Possible leak locations.*
   e. *Presence of free standing water.*
   f. *Depth to ground water, if known.*
   g. *Presence of free product.*
   h. *Presence of stained soil.*
   i. *Observed odors.*
   j. *Signs of impacted/affected vegetation.*
   k. *Other signs of contamination.*

7. *Describe soil sampling procedures/techniques, including:*

   a. *Sample collection method.*
   b. *Tool cleaning method.*
   c. *Sample preservation method.*

8. *Describe field instruments, methods, and observations, including:*

   a *Instrument make and model.*
   b *Date of factory calibration.*
   c. *Date, time, and method of field calibration.*
   d. *Lamp energy electron volts (ev) for PID's.*
   e. *Instrument settings.*
   f. *Outside temperature.*
   g. *Weather conditions.*
   h. *Lab-headspace split sampling.*
   i. *Headspace sample containers.*
   j. *Headspace sample collection.*
   k. *Polyethylene bag procedure, if used.*
   l. *Equilibrium temperature for samples.*
   m. *Sample agitation.*
   n. *Sample equilibrium.*
   o. *Erratic instrument readings, if present.*
   p. *Instrument cleaning or repairs performed in the field.*

9. *Suitable photographs include:*

a. *Color prints.*
b. *Color reprints.*
c. *Color photocopies.*

1.7 Reporting

1. *Send assessment copy to:*

a. *Jim Schmidt*
WDNR
4041 N. Richards St.
P. O. Box 12436
Milwaukee, WI 53212

☐ Wastewater ☐ Water Resources
☐ Other _____ Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Key Products	_ _ _ _ _ _ _ _	GP-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
ESP Enterprises Inc. West Bend WI	07/23/97	07/23/97	Geoprobe

DNR Facility Well No.	Well Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	2 inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat _____ Long _____
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W

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

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

Sample Number	Sample Length Recovered (in)	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
				Concrete Slab to 0.25'										
1				0.25' to 5' reddish brown clay, gravel sand fill, wet Sample GP-1-5 (At 5')				77		wet				Lab Sample GP-1
2				5' to 10' reddish brown clay, some sand & gravel, moist to dry. Sample # GP-1-10 (At 10')				ND		moist Dry				Lab Samp GP-1
3				10' to 15' grayish clay dense, moist to dry. Sample # GP-1-15 (At 15')				ND		Moist Dry				Lab Sample GP-1
				EOB at 15'										

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

Signature _____ Firm _____

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

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Kew Products		GP-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
ESP Enterprises, West Bend, WI	07/23/97	07/23/97	Geoprobe

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ____ ____ ____
____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____ E/W | Long ____ ____ ____

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

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

Sample Number	Sample Length Recovered (in)	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
				Compact Stone 0.25'				ND						
1				0.25' - 5' reddish brown clay, gravel, sand fill, wet. Sample # GP-2-5 (At 5')				6.6		Wet				Lab Sample GP-2-
2				5' - 10' reddish brown clay, some sand and gravel moist to dry Sample # GP-2-10 (At 10')				ND		Moist Dry				Lab Samp GP-2
3				10' - 15' grayish clay dense, moist to dry Sample # GP-2-15 (At 15')				ND		Moist Dry				Lab Samp GP-2
4				15' - 20' grayish clay dense, moist to dry Sample # GP-2-20 (At 20')				ND		Moist Dry				Lab Samp GP-
				EOB At 20'										

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

Signature	Firm
Donald Ward	MM&T Ltd.

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.

☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other ____________

Facility/Project Name	License/Permit/Monitoring Number	Boring Number	
Key Products	— — — — — — —	GP-3	
Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
ESP Enterprises Inc, West Bend WI	07/23/97 (MM DD YY)	07/23/97 (MM DD YY)	Geoprobe
DNR Facility Well No. / WI Unique Well No. / Common Well Name	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter ____ inches

Boring Location
State Plane ________ N, ________ E S/C/N | Lat ______ | Local Grid Location (If applicable) ☐ N ☐ E
____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____ E/W | Long ______ | ____ Feet ☐ S ____ Feet ☐ W

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

Sample Number	Length Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/Comments
				Compact stone 0.25'										
1				0.25' to 5' redish brown clay, gravel sand & sill, wet sample #GP-3-5 (At 5')				50		Wet				Lab samp. GP-3-
2				5' to 10' redish brown clay, sand, moist to dry sample #GP-3-10 (At 10')				3.6		Moist Dry				Lab samp GP-3-
3				10' to 15' grayish clay dense, some sand, moist to dry no sample taken				ND		Moist Dry				Lab samp GP-3-
				EOB At 15'										

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

Signature	Firm
Donald Gages	MM+T Ltd.

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☐ Solid Waste ☐ Haz. Waste Form 4400-122 7-91
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____ Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Key Products	_ _ _ _ _ _ _ _	GP-3-Water

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM/DD/YY)	Date Drilling Completed (MM/DD/YY)	Drilling Method
ESP Enterprises Inc West Bend WI	07/23/97	07/23/97	Geoprobe

DNR Facility Well No.	Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	2 inches

Boring Location
State Plane _____ N, _____ E S/C/N Lat _____
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W Long _____

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

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

Sample Number	Sample Length Recovered (in)	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	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
				Compact Stone 0.25'										
1				0.25' to 5' reddish brown clay gravel, sand fill, wet				ND		wet				Lab Sample GP-3 Water
				Water Sample GP-3-Water										
				EOB at 5'										

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

Signature _____ Firm MMKT Ltd.

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State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

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

Southeast District Annex
4041 N. Richards Street, Box 12436
Milwaukee, WI 53212-0436
TELEPHONE 414-229-0800
FAX 414-229-0810

January 3, 1997

IN REPLY REFER TO Milwaukee Co. ERP FID# 241437790

Mr. Richard Meinburg
Key Products, Inc.
8634 W Lynx Ave
Milwaukee, WI 53225

Subject: Environmental Contamination, Key Products Property, 8634 W Lynx, Milwaukee

Dear Mr. Meinburg:

I have reviewed the November 1996 Accidental Release Assessment Documentation Report prepared by Materials Management & Training Ltd. for the environmental contamination at the Key Products property, 8634 W Lynx, Milwaukee, WI. The report documents a paint and solvent spill and subsequent cleanup at the Key Products property, and requests that the DNR require no further action.

The report documents that 3,000 ppb PCE was detected in overexcavation confirmation sample REM SS1, which was collected at 12 ft bgs. The report contains a risk based analysis stating that the PCE does not pose a direct contact threat. DNR file information for the Hampton Plumbing site, 8617 W Kaul, Milwaukee, FID # 241731600 indicates that groundwater is likely to occur at 10 to 16 ft bgs (groundwater may not have been encountered during the Key Products excavation because of clayey soil). Based on this information and Equation 9 from the report, there is likely groundwater contamination at the Key Products property that exceeds the NR 140 enforcement standard. Contaminated groundwater may account for the increased PCE concentrations between SS4 and overexcavation confirmation sample REM SS4.

Additional investigation is needed at the Key Products site to determine groundwater quality. You should conduct the groundwater investigation and act accordingly as soon as possible. The conditions present at this site may pose a serious threat to human health and/or the environment. The site specific information known to the WDNR at this time, however, is not adequate to evaluate the relative potential threat from this site.

WDNR SE District Review Prioritization Policy

Due to the WDNR workload, it is necessary to rank all contamination cases for review priority. The highest priority sites have assigned WDNR project managers who are actively reviewing and approving investigation and remediation plans. Lower priority cases do not always have assigned project managers, however, responsible parties are required to proceed with investigation and clean-up efforts. Due to the lack of information about this site, it's relative priority cannot be determined. Therefore, the priority ranking of this site is considered unknown. Until a priority has been assigned to this site, you should proceed with the required response work, submitting all plans and reports, along with quarterly status reports, to this office. The WDNR will notify you if active oversight for you site will be given.

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 144.76 (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 to 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 February 28, 1996 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 March 31, 1996 your consultant must submit a workplan and a schedule for conducting the investigation. The consultant must follow the Department's administrative codes and our 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 soil excavation report).

3. Please keep us informed of what is being done at your site. You or your consultant must provide us with a brief report at least every 90 days, starting after your workplan is submitted. These quarterly 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, please note that should conditions at your site warrant, you may receive a letter requiring more frequent contacts with the Department.

4. When the site investigation is complete, your consultant must submit a full report on the extent and degree of soil and groundwater contamination and a proposal for cleaning up the contamination.

Due to the number of contaminated sites and our staffing levels, we will be unable to respond to each report. 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 WDNR responses. We have provided detailed technical guidance to environmental consultants. Your consultant is expected to be familiar with our technical procedures and administrative codes and should be able to answer your questions on meeting Wisconsin's cleanup requirements.

Your correspondence and reports regarding this site should be sent to the Department at the following address:

Mr. Jim Schmidt
c/o ERR/ERP
Wisconsin Department of Natural Resources
P.O. Box 12436
Milwaukee, Wisconsin 53212

Unless otherwise requested, please send only one copy of all plans and reports. Correspondence should be identified with the assigned WDNR facility identification number (FID#, ERR/ERP) which is listed at the top of this letter.

Information for Site Owners:
Enclosed is a list of environmental consultants and some important tips on selecting a consultant. If you are eligible for reimbursement of costs under Wisconsin's PECFA program (see last paragraph) you will need to compare at least three consultants' proposals before hiring a consultant. Consultants and laboratories working in the PECFA program are required to carry errors and omissions insurance to help protect you against unsuitable work. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. This information has been prepared to help you understand your responsibilities and what your environmental consultant needs to do. Please read this information carefully.

If you are interested in obtaining the protection of limited liability under s. 144.765, Stats., please contact Mark Giesfeldt at (608) 267-7562 or Darsi Foss at (608) 267-6713, in the Department of Natural Resources' Madison office for more information. The liability exemption under s. 144.765. Stats., is available to persons who meet the definition of "purchaser" in s. 144.765(1)(c) and receive Department approval for the response actions taken at the property undergoing cleanup. The Department will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. NR 716 site investigation at the property.

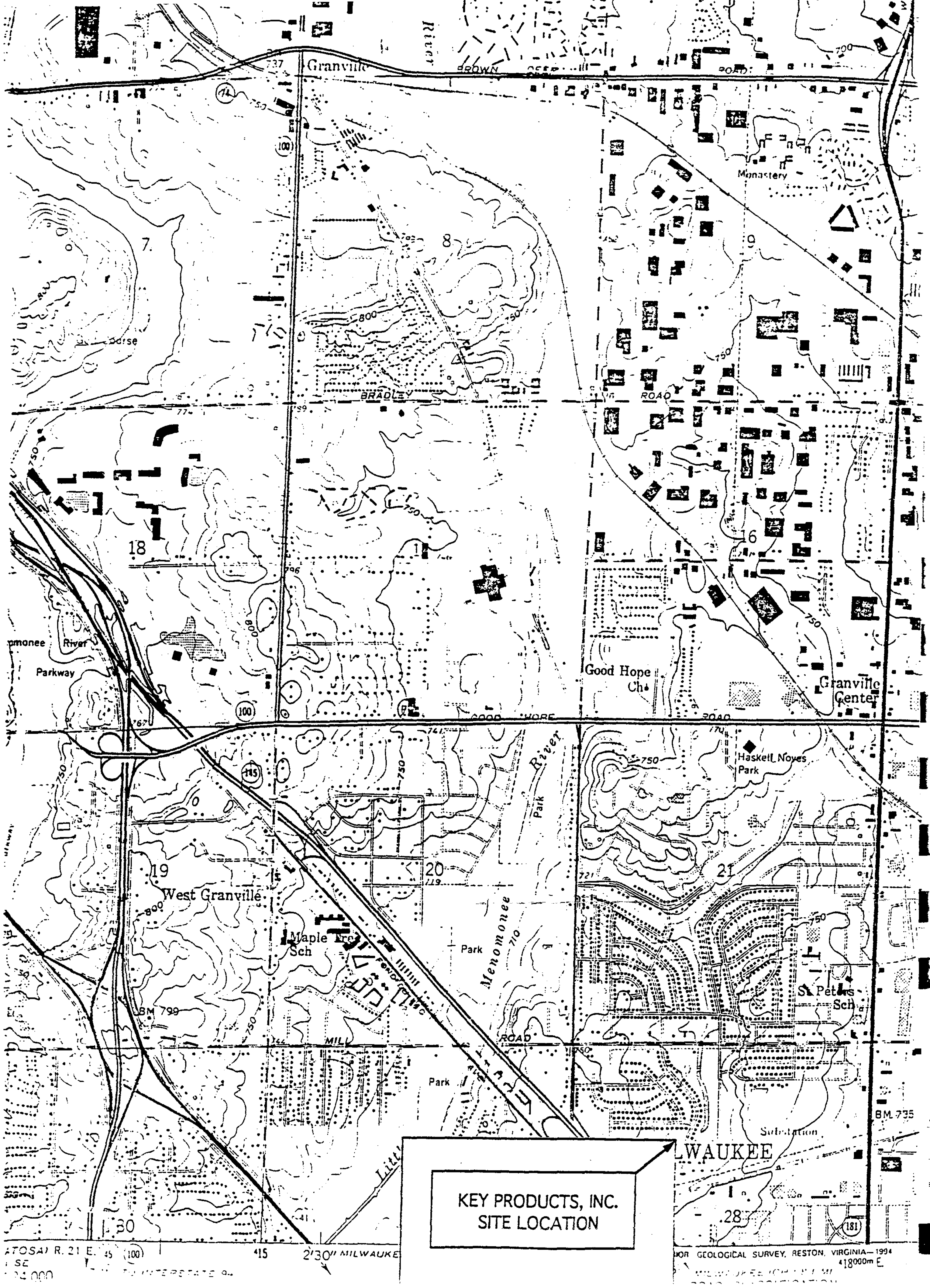
Please contact me if you have questions or comments; your call or letter will receive a prompt response.

Sincerely,

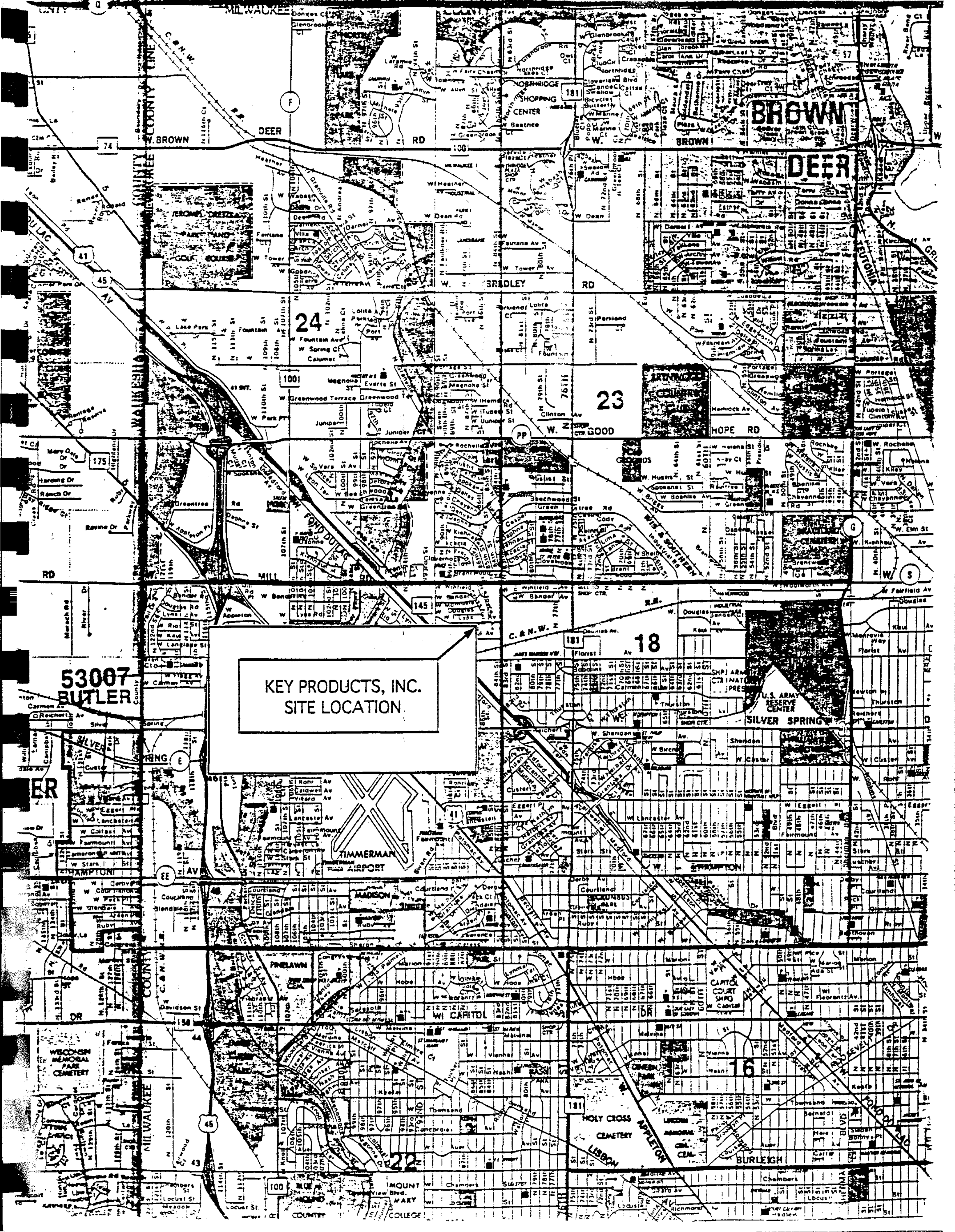
Michael C.

Michael C. Thompson
Department of Natural Resources-Southeast Region Spill Coordinator
(414) 229-0838

cc: Mr. Don Gagas, Materials Management & Training Ltd, 3271 N 84th St., Milwaukee, WI 53222


Granville
BROWN DEER ROAD
Monastery
River
BRADLEY ROAD
Menomonee River Parkway
Good Hope Ch
Granville Center
GOOD HOPE ROAD
Haskell Noyes Park
Menomonee River Park
West Granville
Maple Tree Sch
Park
St Peters Sch
MILL ROAD
BM 799
BM 735
Substation
MILWAUKEE
KEY PRODUCTS, INC.
SITE LOCATION
GEOLOGICAL SURVEY, RESTON, VIRGINIA—1994
418000m E.
2'30" MILWAUKEE

SITE LAYOUT PLAN


KEY PRODUCTS, INC.
SITE LOCATION
BROWN
DEER
53007
BUTLER
W. BROWN
DEER
RD
BRADLEY
NORTHRIDGE
SHOPPING
CENTER
24
23
18
16
22
MILL
FOND DU LAC
TIMMERMAN
AIRPORT
U.S. ARMY
RESERVE
CENTER
SILVER SPRING
HOPE
GOOD
HAMPTON
BURLEIGH
HOLY CROSS
CEMETERY
APPLETON
LISBON
WI CAPITOL
PINELAWN
CEM.
WISCONSIN
MEMORIAL
PARK
CEMETERY
MOUNT
MARY
COLLEGE
MILWAUKEE
COUNTY LINE
WAUKESHA
TEUTONIA
C. & N. W.
MADISON
Florist
Chambers
Courtland

SITE LOCATION MAPS

Additional Site Investigation

Hampton Plumbing Company, Inc. Site

8617 West Kaul Avenue, Milwaukee, Wisconsin
Advent Project No. 97195.03

Prepared for
Mr. Robert Wille

December 1994

A D V E N T

ENVIRONMENTAL SERVICES, INC.

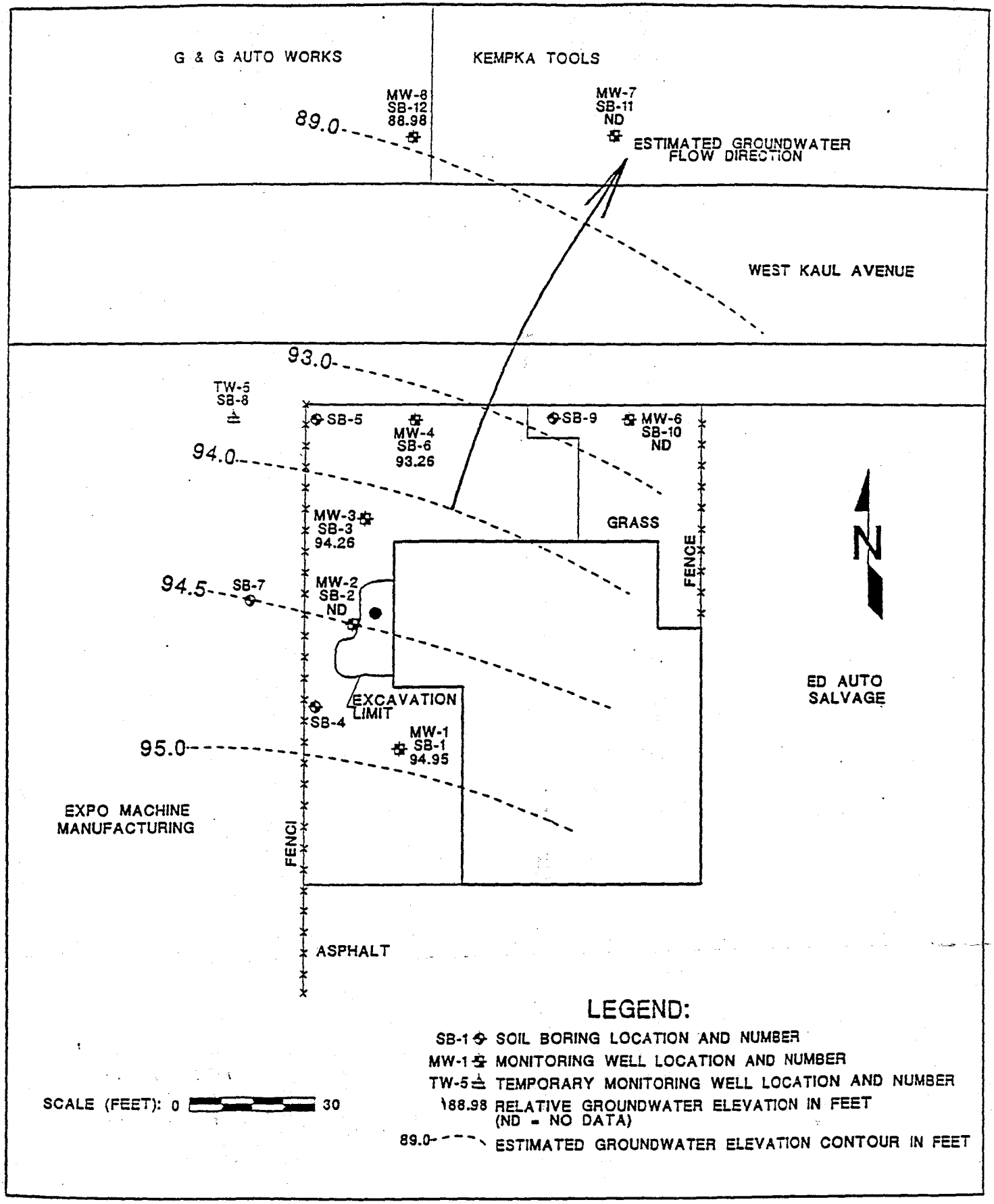


FIGURE 7 RELATIVE GROUNDWATER ELEVATION MAP
HAMPTON PLUMBING COMPANY
MILWAUKEE, WISCONSIN

ADVENT
ENVIRONMENTAL SERVICES, INC.
DATE: 11/29/94
DRAWING # 97195.03H

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 4 of 6

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Hampton Plumbing Company		SB-10

Drilling Contractor (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Lauter Drilling, Inc. / Dennis	11/08/94	11/08/94	Hollow Stem Auger

Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-6	____ Feet MSL	____ Feet MSL	8.0 inches

Boring Location: State Plane ____ N. ____ E S/C/N	Lat ____	Local Grid Location (If applicable)
1/4 of NW 1/4 of Section 28, T 8 N, R 21 E/W	Long ____	____ Feet ☐N ☐S ____ Feet ☐E ☐W

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

Length Recovered (in)	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
		0	0-4. Dark gray silty clay.				0		moist				
		5	4-10.' Brown stiff silty clay. mottled.				0						Lab-sample SB-10-A.
		10	10-16: Dark gray, plastic, silty clay.				35 0 0 0 0		Wet				SB-10-B. Lab-sample.
		15	End of boring at 16 feet										
		20											

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

Signature	Firm
T. Durow	Advent Environmental Services, Inc.

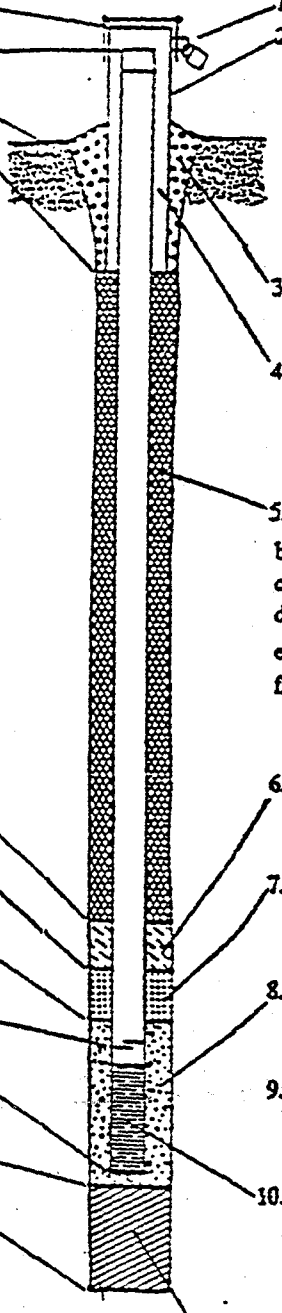
Authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Partment of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

ility/Project Name: Taunton Plumbing Co	Local Grid Location of Well: ____ ft. ☐N ☐S ____ ft. ☐E ☐W	Well Name: MW-6
ility License, Permit or Monitoring Number:	Grid Origin Location: Lat. ____ Long. ____ or St. Plane ____ ft. N. ____ ft. E.	Wis. Unique Well Number / DNR Well Number:
e of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location of Waste/Source: ☐NE ☐1/4 of NW 1/4 of Sec. 28 T. 8 N. R. 21 ☒E ☐W	Date Well Installed: 11/08/94 (m m d d y y)
nce Well Is From Waste/Source Boundary: 30 ft	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) Sauter Drilling Inc. Advent / Khalid Durrani
ell A Point of Enforcement Std. Application? ☒ Yes ☐ No		



rotective pipe, top elevation _____ ft. MSL
ell casing, top elevation _____ ft. MSL
nd surface elevation _____ ft. MSL
rface seal, bottom _____ ft. MSL or ____ ft.

USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☒ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

ieve analysis attached? ☐ Yes ☒ No

rilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ _____

rilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

rilling additives used? ☒ Yes ☐ No

escribe _____

ource of water (attach analysis): _____

rface seal, top _____ ft. MSL or 0.5 ft.
sand, top _____ ft. MSL or 2.5 ft.
r pack, top _____ ft. MSL or 4.0 ft.
en joint, top _____ ft. MSL or 6.0 ft.
l bottom _____ ft. MSL or 16.0 ft.
r pack, bottom _____ ft. MSL or 16.0 ft.
hole, bottom _____ ft. MSL or 16.0 ft.
hole, diameter 8.0 in.
). well casing 2.10 in.
well casing 2.00 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: ___.__ in.
   b. Length: ___.__ ft.
   c. Material: Steel ☐ 04; Other ☐ _____
   d. Additional protection? ☐ Yes ☒ No
      If yes, describe: _____
3. Surface seal: Bentonite ☒ 30; Concrete ☐ 01; Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐ _____; Other ☐ _____
5. Annular space seal: a. Granular Bentonite ☒ 33
   b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
   c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
   d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50
   e. _____ Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
   b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite pellets ☐ 32
   c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
   a. Badger mining
   b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
   a. Red Flint
   b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ _____
10. Screen material: PVC
    a. Screen type: Factory cut ☐ 11; Continuous slot ☐ 01; Other ☐ _____
    b. Manufacturer _____
    c. Slot size: 0.___ in.
    d. Slotted length: ___.__ ft.
11. Backfill material (below filter pack): None ☐ 14; Other ☐ _____

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

e	Firm
K. Durrani	Advent Environmental, Inc.

omplete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than or each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each olation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Hampton Plumbing Co	Milwaukee	MW-6
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	41	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 10 min.

4. Depth of well (from top of well casing) 16.0 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 3.0 gal.

7. Volume of water removed from well 3.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 10.14 ± ft.	15.6 ft.
Date	b. 11/15/94 (m m d d y y)	11/15/94 (m m d d y y)
Time	c. ___:___ ☒ a.m. ☐ p.m.	___:___ ☒ a.m. ☐ p.m.
12. Sediment in well bottom	1.0 inches	___.___ inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____.___ mg/l	_____.___ mg/l
15. COD	_____.___ mg/l	_____.___ mg/l

Additional comments on development:

Well developed by: Person's Name and Firm

Name: Khalid Durrani

Firm: Advent Environmental Servic

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

Signature: K Durrani

Print Initials: KPD

Firm: Advent Environmental Service

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

COPY

ACCIDENTAL RELEASE ASSESSMENT

DOCUMENTATION REPORT

Prepared for:

Key Products, Inc.
8634 W. Lynx Ave.
Milwaukee, Wisconsin 53225
Attn: Mr. Richard Meinburg

Prepared by:

Materials Management & Training Ltd.
3271 N. 84th Street
Milwaukee, WI 53222

November 8, 1996

Equation 9: Algorithm for Groundwater Mixing Zone Dilution Attenuation Factor (DAF) for NR 720 Generic Residual Contaminant Levels

(Screening calc. (not table I values - more conservative)

1) → *Residual Contaminant Level* (µg/kg) = *PAL* × 10^{-3} mg/µg × *Koc* × *foc* × *DAF*

Table I = (Scsoil) × (DAF) = $\frac{d}{\theta t}(Koc\,foc\,\rho + n)$

where

Parameter/Definition (units)	Default	
PAL/preventive action limit (µg/L)	chemical-specific	
Koc/organic carbon:water partitioning coefficient (L/kg)	chemical-specific	$PCE\ K_{OC} = 3.64 \times 10^2$
foc/fractional organic carbon content (g/g)	0.001	.001 g/g
d/depth of groundwater mixing zone (cm)	152.4	152.4 cm = 5'
θ/average volumetric soil moisture content of unsaturated zone (cm^3/cm^3)	0.1	.1 cm^3/cm^3
t/thickness of [redacted] (cm)	15	THICKNESS OF CONTAM. SOIL = 15 cm
ρ/soil dry bulk density (g/cm^3)	1.35	1.35 g/cm^3
n/porosity (cm^3/cm^3)	0.49	.49 cm^3/cm^3

ALL PAH numbers Direct Contact Number OK

Groundwater numbers use equation above (screening)

Scsoil × DAF = less restrictive number

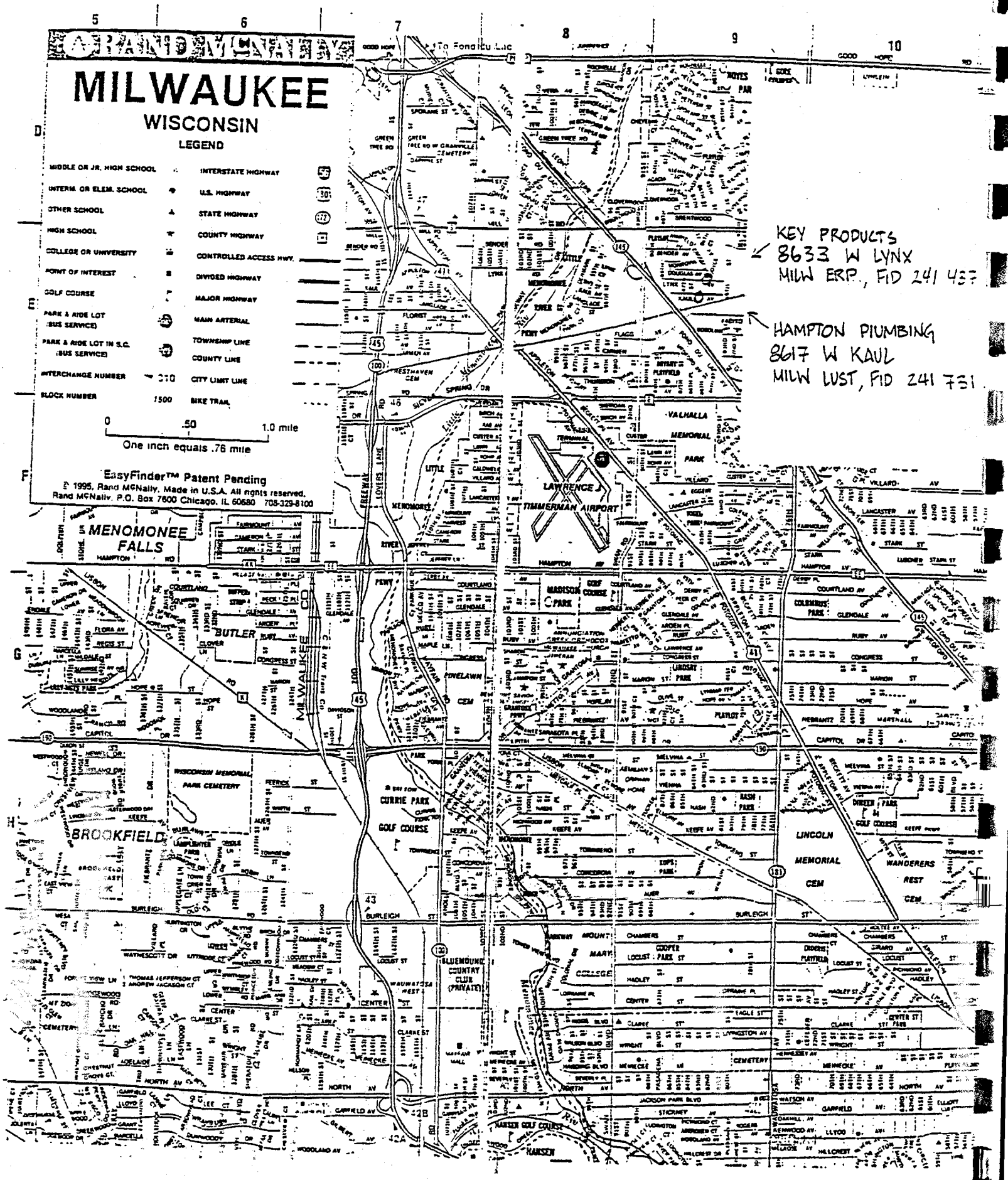
Sources: I=IRIS H=HEAST A=HEAST alternate W=Withdrawn from IRIS or HEAST E=EPA-ECAO Regional Support provisional value O=Other EPA documents.

Basis: C=carcinogenic effects N=noncarcinogenic effects E=EPA draft Soil Screening Level S=soil saturation concentration.

Contaminant	CAS	RfDo mg/kg/d		RfDi mg/kg/d		CPSo		CPSi		V O	Risk-Based Concentrations: Tap Water ug/L		Ambient Air ug/m3		Fish mg/kg		Soil Ingestion: Industrial mg/kg		Residential mg/kg		Soil Screening Level-Transfers from Soil to: Air mg/kg		Groundwater mg/kg	
Sodium azide	26628228	4.00E-03	I								150	N	15	N	5.4	N	8200	N	310	N				
Sodium diethyldithiocarbamate	148185	3.00E-02	I			2.70E-01	N				0.25	C	0.023	C	0.012	C	21	C	2.4	C				
Sodium fluoroacetate	62748	2.00E-05	I								0.73	N	0.073	N	0.027	N	41	N	1.6	N				
Sodium metavanadate	13718268	1.00E-03	H								37	N	3.7	N	1.4	N	2000	N	78	N				
Strontium, stable	7440246	6.00E-01	I								22000	N	2200	N	810	N	1E+06	N	47000	N				
Strychnine	57249	3.00E-04	I								11	N	1.1	N	0.41	N	610	N	23	N				
Styrene	100425	2.00E-01	I	2.86E-01	I					[E]	1600	N	1000	N	270	N	410000	N	16000	N	1400	S	2	S
Sulfiram	97671890	2.50E-02	I								910	N	91	N	34	N	51000	N	2000	N				
2,3,7,8-TCDD (dioxin)	1746016					1.56E+05	N	1.16E+05	N		4E-07	C	5E-08	C		C	4E-05	C	4E-06	C				
Tebuthiuron	34014181	7.00E-02	I								2600	N	260	N	95	N	140000	N	5500	N				
Temephos	3383968	2.00E-02	H								730	N	73	N	27	N	41000	N	1600	N				
Terbacil	5902512	1.30E-02	I								470	N	47	N	18	N	27000	N	1000	N				
Terbufos	13071799	2.50E-05	H								0.91	N	0.091	N	0.034	N	51	N	2	N				
Terbutryn	886500	1.00E-03	I								37	N	3.7	N	1.4	N	2000	N	78	N				
1,2,4,5-Tetrachlorobenzene	95943	3.00E-04	I							[E]	1.8	N	1.1	N	0.41	N	610	N	23	N	91	N	0.69	N
1,1,1,2-Tetrachloroethane	630206	3.00E-02	I			2.60E-02	I	2.59E-02	I	[E]	0.41	C	0.24	C	0.12	C	220	C	25	C				
1,1,2,2-Tetrachloroethane	79345					2.00E-01	I	2.03E-01	I	[E]	0.052	C	0.031	C	0.016	C	29	C	3.2	C	0.4	S	0.001	S
Tetrachloroethylene (PCE)	127184	1.00E-02	I			5.20E-02	S	2.03E-03	S	[E]	1.1	C	3.1	C	0.061	C	110	C	12	C	11	S	0.04	S
2,3,4,6-Tetrachlorophenol	58902	3.00E-02	I								1100	N	110	N	41	N	61000	N	2300	N				
p,a,a,a-Tetrachlorotoluene	5216251					2.00E+01	H			[E]	0.00053	C	0.00031	C	0.00016	C	0.29	C	0.032	C				
Tetrachlorovinphos	961115	3.00E-02	I			2.40E-02	H				2.8	C	0.26	C	0.13	C	240	C	27	C				
Tetraethyldithiopyrophosphate	3689245	5.00E-04	I								18	N	1.8	N	0.68	N	1000	N	39	N				
Lead (tetraethyl)	78002	1.00E-07	I								0.0037	N	0.00037	N	0.00014	N	0.2	N	0.0078	N	0.01			
Thallic oxide	1314325	7.00E-05	W								2.6	N	0.26	N	0.095	N	140	N	5.5	N				
Thallium																								
Thallium acetate	563688	9.00E-05	I								3.3	N	0.33	N	0.12	N	180	N	7	N				
Thallium carbonate	6533739	8.00E-05	I								2.9	N	0.29	N	0.11	N	160	N	6.3	N				
Thallium chloride	7791120	8.00E-05	I								2.9	N	0.29	N	0.11	N	160	N	6.3	N				
Thallium nitrate	10102451	9.00E-05	I								3.3	N	0.33	N	0.12	N	180	N	7	N				
Thallium selenite	12039520	9.00E-05	W								3.3	N	0.33	N	0.12	N	180	N	7	N				
Thallium sulfate	7446186	8.00E-05	I								2.9	N	0.29	N	0.11	N	160	N	6.3	N				
Thiobencarb	28249776	1.00E-02	I								370	N	37	N	14	N	20000	N	780	N				
2-(Thiocyanomethylthio)-benzothiazole	21564170	3.00E-02	H								1100	N	110	N	41	N	61000	N	2300	N				
Thiofanox	39196184	3.00E-04	H								11	N	1.1	N	0.41	N	610	N	23	N				
Thiophanate-methyl	23564058	8.00E-02	I								2900	N	290	N	110	N	160000	N	6300	N				
Thiram	137268	5.00E-03	I								180	N	18	N	6.8	N	10000	N	390	N				
Tin and compounds		6.00E-01	H								22000	N	2200	N	810	N	1E+06	N	47000	N				
Toluene	108883	2.00E-01	I	1.14E-01	I					[E]	750	N	420	N	270	N	410000	N	16000	N	5			
Toluene-2,4-diamine	95807					3.20E+00	H				0.021	C	0.002	C	0.00099	C	1.8	C	0.2	C				
Toluene-2,5-diamine	95705	6.00E-01	H								22000	N	2200	N	810	N	1E+06	N	47000	N				
Toluene-2,6-diamine	823405	2.00E-01	H								7300	N	730	N	270	N	410000	N	16000	N				

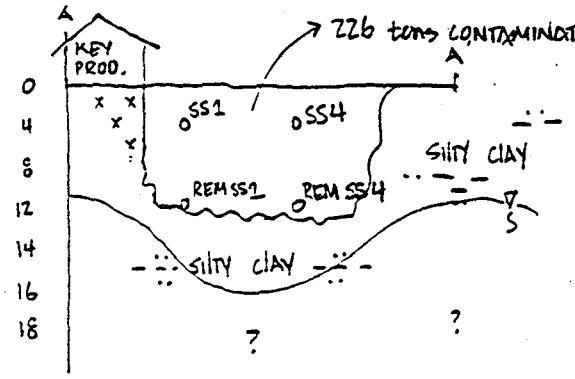
Table A-1. Water Solubility, Vapor Pressure, Henry's Law Constant, Koc, and Kow Data for Selected Chemicals.

Chemical Name	CAS #	EPA	Water Solubility (mg/l)	Ref	Vapor Pressure (mm Hg)	Ref	Henry's Law Constant (atm-m3/mol)	Ref	Koc (ml/g)	Ref	Kow	Ref
Hexachlorocyclopentadiene	77-47-4	HPP	2.10E+00	A	8.00E-02	A	1.37E-02	A	4.80E+03	A	1.10E+05	A
Hexachloroethane (Perchloroethane)	67-72-1	HPP	5.00E+01	A	4.00E-01	A	2.49E-03	A	2.00E+04	A	3.98E+04	A
Iodomethane (Methyl Iodide)	77-88-4		1.40E+04	A	4.00E+02	A	5.34E-03	A	2.30E+01	B	4.90E+01	A
Isoprene	78-79-5				4.00E+02	A						
Pentachloroethane (Pentalin)	76-01-7		3.70E+01	C	3.40E+00	C	2.44E-02	X	1.90E+03	D	7.76E+02	C
1,1,1,2-Tetrachloroethane	630-20-6		2.90E+03	A	5.00E+00	A	3.81E-04	A	5.40E+01	B		
1,1,2,2-Tetrachloroethane	79-34-5	HPP	2.90E+03	A	5.00E+00	A	3.81E-04	A	1.18E+02	A	2.45E+02	A
Tetrachloroethene (PERC)	127-18-4	HPP	1.50E+02	A	1.78E+01	A	2.59E-02	A	3.64E+02	A	3.98E+02	A
Tetrachloromethane (Carbon Tetrachloride)	56-23-5	HPP	7.57E+02	A	9.00E+01	A	2.41E-02	A	4.39E+02	Q	4.37E+02	A
Tribromomethane (Bromoform)	75-25-2	HPP	3.01E+03	A	5.00E+00	A	5.52E-04	A	1.16E+02	A	2.51E+02	A
1,1,1-Trichloroethane (Methylchloroform)	71-55-6	HPP	1.50E+03	A	1.23E+02	A	1.44E-02	A	1.52E+02	A	3.16E+02	A
1,1,2-Trichloroethane (Vinyltrichloride)	79-00-5	HPP	4.50E+03	A	3.00E+01	A	1.17E-03	A	5.60E+01	A	2.95E+02	A
Trichloroethene (TCE)	79-01-6	HPP	1.10E+03	A	5.79E+01	A	9.10E-03	A	1.26E+02	A	2.40E+02	A
Trichlorofluoromethane (Freon 11)	75-69-4	PP	1.10E+03	A	6.67E+02	A	1.10E-01	Q	1.59E+02	A	3.39E+02	A
Trichloromethane (Chloroform)	67-66-3	HPP	8.20E+03	A	1.51E+02	A	2.873-03	A	4.70E+01	C	9.33E+01	A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		1.00E+01	A	2.70E+02	A					1.00E+02	A
AROMATIC COMPOUNDS												
1,1-Biphenyl (Diphenyl)	92-52-4		7.50E+00	E	6.00E-02	G	1.50E-03	G			7.54E+03	E
Benzene	71-43-2	HPP	1.75E+03	A	9.52E+01	A	5.59E-03	A	8.30E+01	A	1.32E+02	A
Bromobenzene (Phenyl Bromide)	108-86-1		4.46E+02	E	4.14E+00	O	1.92E-03	X	1.50E+02	P	9.00E+02	E
Chlorobenzene	108-90-7	HPP	4.66E+02	A	1.17E+01	A	3.72E-03	A	3.30E+02	Q	6.92E+02	A
4-Chloro-m-cresol (Chlorocresol)	59-50-7	HPP	3.85E+03	C	5.00E-02	C	2.44E-06	X	4.90E+02	C	9.80E+02	C
2-Chlorophenol (o-Chlorophenol)	95-57-8	HPP	2.90E+04	C	1.80E+00	C	1.05E-05	X	4.00E+02	C	1.45E+02	C
Chlorotoluene (Benzyl Chloride)	100-44-7		3.30E+03	A	1.00E+00	A	5.06E-05	A	5.00E+01	B	4.27E+02	A
m-Chlorotoluene	108-41-8		4.80E+01	D	4.60E+00	C	1.60E-02	X	1.20E+03	D	1.90E+03	C
o-Chlorotoluene	95-49-8		7.20E+01	C	2.70E+00	C	6.25E-03	X	1.60E+03	D	2.60E+03	C
p-Chlorotoluene	106-43-4		4.40E+01	D	4.50E+00	C	1.70E-02	X	1.20E+03	D	2.00E+03	C
Cresol (Technical) (Methylphenol)	1319-77-3		3.10E+04	A	2.40E-01	A	1.10E-06	A	5.00E+02	A	9.33E+01	A
o-Cresol (2-Methylphenol)	95-48-7	HSL	2.50E+04	J	2.43E-01	O	1.50E-06	X			8.91E+01	H
p-Cresol (4-Methylphenol)	106-44-5	HSL			1.14E-01	O					8.51E+01	H
Dibenzofuran		HSL									1.32E+04	H
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	HPP	1.00E+02	A	1.00E+00	A	1.93E-03	A	1.70E+03	A	3.98E+03	A
1,3-Dichlorobenzene (m-Dichlorobenzene)	541-73-1	HPP	1.23E+02	A	2.28E+00	A	3.59E-03	A	1.70E+03	A	3.98E+03	A
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	HPP	7.90E+01	A	1.18E+00	A	2.89E-03	A	1.70E+03	A	3.98E+03	A
2,4-Dichlorophenol	120-83-2	HPP	4.60E+03	A	5.90E-02	A	2.75E-06	A	3.80E+02	A	7.94E+02	A
Dichlorotoluene (Benzal Chloride)	98-87-3		2.50E+00	D	3.00E-01	C	2.54E-02	X	9.90E+03	D	1.60E+04	D
Diethylstilbestrol (DES)	56-53-1		9.60E-03	A					2.80E+01	B	2.88E+05	A
2,4-Dimethylphenol (as-m-Xylenol)	1300-71-6	HPP	4.20E+03	C	6.21E-02	H	2.38E-06	X	2.22E+02	C	2.63E+02	C
1,3-Dinitrobenzene	99-65-0		4.70E+02	A					1.50E+02	B	4.17E+01	A



KEY PRODUCTS
8633 W LYNX
MILW ERP., FID 241 437

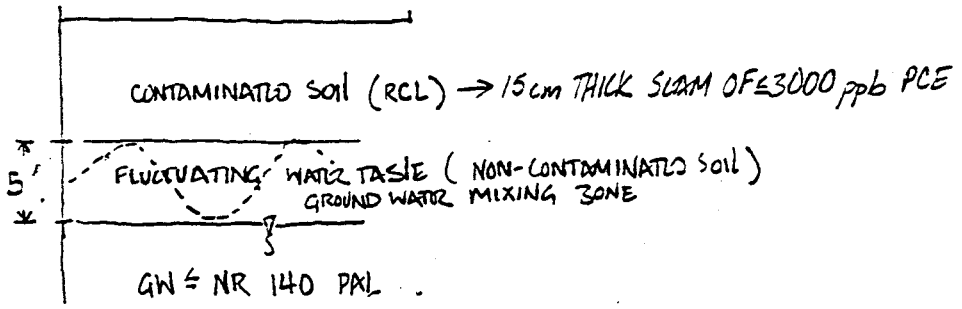
HAMPTON PLUMBING
8617 W KAUL
MILW LUST, FID 241 751



SAMPLE	CONCENTRATION PCE (ppb)
SS 1	↑↑ PVOCs
REM SS 1	3000
SS 4	DETECT PVOCS
REM SS4	1500

EQU 9: ALGORITHM FOR GW MIXING ZONE DAF FOR NR 720 GENERIC RCL'S FROM 08 NOV 96 KLY PRODUCTS REPORT →

ASSUMPTIONS:



1) RESIDUAL CONTAMINANT LEVEL ($\mu g/kg$) = NR 140 PAL $\times 10^{-3}$ $mg/\mu g \cdot K_{oc} \cdot f_{oc} \cdot$ DAF

2) NR 140 PAL $\times 10^{-3}$ $mg/\mu g$ = $\dfrac{RCL}{K_{oc} \cdot F_{oc} \cdot DAF}$

3) $C_{GW} \times 10^{-3}$ $mg/\mu g$ = $\dfrac{C_{soil}}{K_{oc} \cdot F_{oc} \cdot DAF^*}$ $\cong$ 83 ppb PCE

* $DAF = \dfrac{d}{\theta t}(K_{oc} f_{oc} \rho + n) = \left(\dfrac{152.4\ cm}{.1\ cm^3/cm^3 \cdot 15\ cm}\right)\left(3.64 \times 10^2\ ml/g \cdot .001\ g/g \cdot 1.35\ g/cm^3 + .49\ cm^3/cm^3\right)$

$DAF = (101.6)(.9814) = 99.71$

CONCLUSION: BASED ON EQU 9 FROM THE 08NOV96 KLY PRODUCTS REPORT; A 15 cm THICK SEAM OF 3000 ppb PCE CONTAMINATED SOIL WOULD RESULT IN A GW CONCENTRATION OF ≃ 83 ppb PCE. ASSUMING A 5' GW MIXING ZONE, PCE $K_{oc} = 3.64 \times 10^2$ L/kg, $f_{oc} = .001$ g/g, $\theta = .1\ cm^3/cm^3$, $\rho = 1.35\ g/cm^3$, AND $n = .49\ cm^3/cm^3$.

A GROUND WATER CONCENTRATION OF 83 ppb PCE EXCEEDS THE NR 140 PAL (.5ppb PCE) AND THE NR 140 ES (5 ppb PCE)

$$DAF = \frac{\text{[illegible]}}{\text{[illegible]}} \underbrace{(K_{oc} f_{oc} \rho + n)}_{b} = (101.6)(.9814) = 99.71$$

$$\lambda = \frac{\text{[illegible]} - \text{in}}{\frac{\text{in}^3}{\text{in}^3} \cdot \frac{15\,\text{in}}{1}} = \frac{152.4\,\text{in}}{1.5\,\text{in}} = \boxed{101.6}$$

$$b = \left(\frac{\text{[illegible]}\,L}{\text{[illegible]}} \cdot \frac{.001\,g}{\text{[illegible]}} \cdot \frac{1.35\,g}{\text{cm}^3} \right) + \frac{.49\,\text{cm}^3}{\text{cm}^3}$$

$$= \left(\frac{\text{[illegible]}\,L}{\text{[illegible]}} \cdot \frac{1 \times 10^{-6}\,kg}{g} \cdot \frac{1.35\,g}{.001\,L} \right) + \frac{.49\,\text{cm}^3}{\text{cm}^3}$$

$$b = (.\text{[illegible]}14 + .49) = \boxed{.9814}$$

$$C_{GW} \cdot 10^{-3}\,\frac{mg}{\mu g} = \frac{C_{soil}}{\underbrace{K_{oc} \cdot F_{oc} \cdot DAF}_{\chi}} \cong 83\ \text{ppb PCE}$$

$1\,Kg = 1000\,g$

$$\chi = \left[\frac{\left(\frac{3000\ \mu g}{kg}\right)\ \text{PCE @ REMSS1}}{\left(\frac{364\,L}{kg}\right) \cdot \left(\frac{\text{[illegible]}\,kg}{g}\right) \cdot \left(\frac{99.71}{1}\right)} \right] = \left[\frac{3000\,\mu g}{1000\,g} \cdot \frac{1\,g}{.0363\,L} \right] \cong 82.6\,mg/L$$

$$\underbrace{\quad}_{.0363\,\frac{L}{g}}$$

$$\left(C_{GW} \cdot 10^{-3}\,\frac{mg}{\mu g} \right) = \chi$$

$$C_{GW} = \frac{83\,\mu g}{L} \cdot \frac{\text{[illegible]}}{\text{[illegible]}} \cdot \frac{1\,mg}{.001\,g} \cdot \frac{1 \times 10^{-6}\,g}{1\,\mu g} = 83\,mg/L$$

PHOTO DOCUMENTATION

Photo #1 - Geoprobe Area

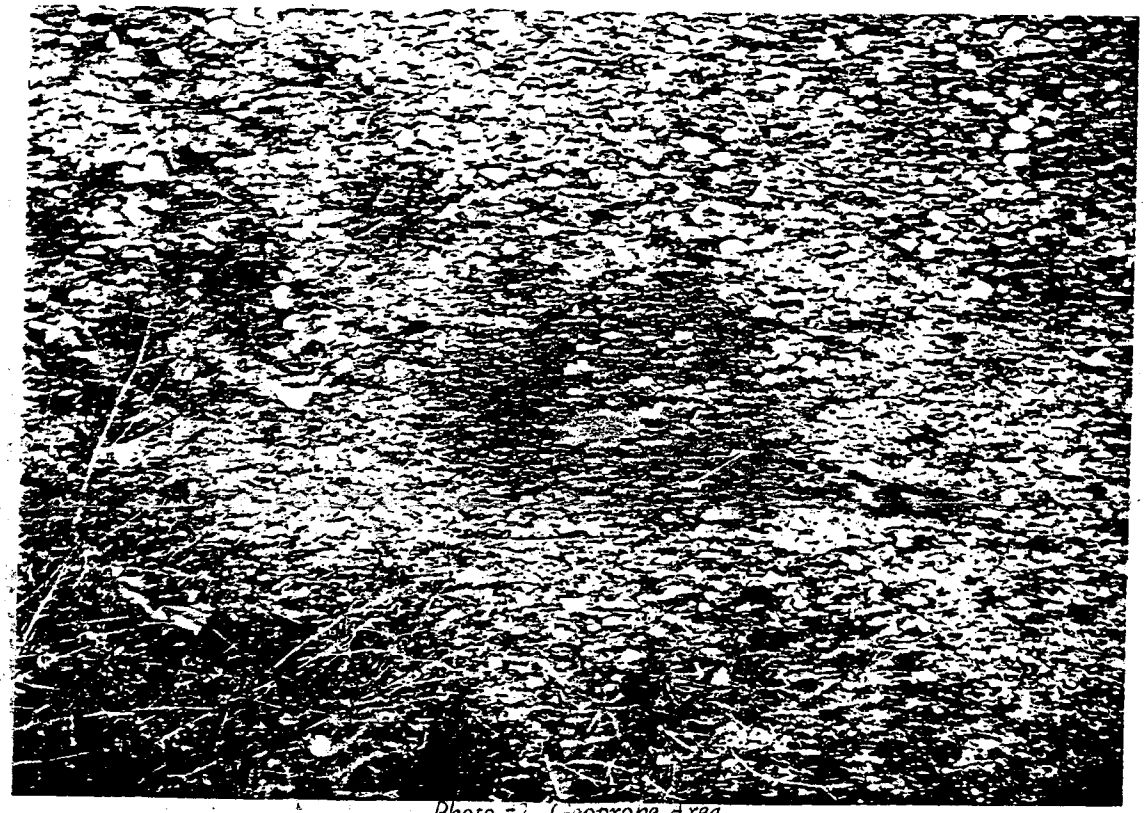


Photo #2 - Geoprobe Area

Photo #3 - Geoprobe Area

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